CICS Transaction Server for z/OS
Version 4 Release 2

CICS Messages and Codes Vol 2

GC34-7176-01

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Note
Before using this information and the product it supports, read the information in "Notices" on page 895.

This edition applies to Version 4 Release 2 of CICS Transaction Server for z/OS (product number 5655-S97) and to all subsequent releases and modifications until otherwise indicated in new editions.

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Preface

What this manual is about

This manual contains messages unique to CICS® Transaction Server Version 4 Release 2 and is intended for use as a quick reference. It is closely linked with the *CICS Problem Determination Guide* which you can consult if a message indicates that there is a CICS problem. For information about problem determination, see Problem determination overview in Problem Determination.

This manual is volume 2 of the CICS messages and codes. It explains the format of DFH messages and contains CICS messages that are prefixed DFHNC to DFHZN. It also contains the AXM server environment messages, transaction abend codes, and system abend codes. To look up messages that are prefixed DFH01 to DFHMV, see CICS messages and codes overview in Messages and Codes Vol 1.

Who this manual is for

This manual is for anybody who needs to understand and respond to CICS messages, including system operators, system programmers, and certain terminal users.

What you need to know to understand this manual

You can refer to this manual for the meaning of a message without understanding the manual as a whole. Your understanding of CICS Transaction Server Version 4 Release 2, however, will be enhanced by a knowledge of the types of message CICS produces, the different places it sends messages, and the different audiences it intends to reach.

How to use this manual

When you are using CICS as a system operator or terminal user, or scanning a queue containing CICS messages, use this manual as a reference. If you want to suggest a change to the contents of a message or an abend code, please contact your IBM® branch instead of raising an RCF.

Online messages and Codes

CICS Transaction Server messages and abend code descriptions (with the exception of AXM messages, a small number of numeric abends and Transaction Dump Codes) are available online using the CICS transaction CMAC. For guidance on using CMAC, see CICS supplied transactions descriptions in CICS Supplied Transactions.

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Changes in CICS Transaction Server for z/OS, Version 4 Release 2

For information about changes that have been made in this release, please refer to *What's New* in the information center, or the following publications:

- *CICS Transaction Server for z/OS What's New*
- *CICS Transaction Server for z/OS Upgrading from CICS TS Version 4.1*
- *CICS Transaction Server for z/OS Upgrading from CICS TS Version 3.2*
- *CICS Transaction Server for z/OS Upgrading from CICS TS Version 3.1*

Any technical changes that are made to the text after release are indicated by a vertical bar (|) to the left of each new or changed line of information.

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Chapter 1. AXM server environment messages

The following messages are issued by the authorized cross-memory (AXM) server environment, which is a package of run-time services used by the Named counter sequence number server, CICS coupling facility (CF) data tables and the CICS shared temporary storage (TS) queue pool server. See the *CICS System Definition Guide* for more information about AXM and the CICS TS queue pool server.

Note:

1. AXM messages are not issued by a CICS region and hence do not use the CICS message domain. They cannot be viewed with the CMAC transaction, suppressed with the XMEOUT user exit, or changed with the message editing utility.
2. These messages are normally displayed in mixed case English. If your terminals cannot display lowercase English characters, see the *CICS Customization Guide* for guidance on converting the messages to uppercase.

REQTEXT

AXM error recovery messages

AXMER0001 ABEND *xxx-rr* **occurred at** *address*, **data** *word1 word2 word3*.

Explanation: The AXM error recovery routine has intercepted an abend in a task running under an AXM server region TCB. The abend code is shown as three hexadecimal digits for a system completion code or four decimal digits for a user completion code. The data consists of the twelve bytes around the PSW address as provided by MVS™ in the SDWA.

System action: The error recovery routine will first call AXMWH which attempts to identify the module and procedure in which the abend occurred and writes out a further message if successful. After this, if recovery is allowed, the error recovery routine terminates the affected AXM internal task and resumes normal processing, otherwise it percolates the error, causing the server region to be abnormally terminated.

The system will normally produce a symptom dump message on the job log, and a full dump may be produced if an appropriate DD statement (SYSUDUMP, SYSMDUMP or SYSABEND) is present in the server region JCL.

User response: Look up the completion code to identify the cause of the abend.

Module: AXMER

Destination: Console and print file

AXMER0002 TRAP occurred at offset *offset* **in** *procname*.

Explanation: An internal logic error in a server resulted in a TRAP macro being executed at the specified location.

The system will normally produce a symptom dump message on the job log, and a full dump may be produced if an appropriate DD statement (SYSUDUMP, SYSMDUMP or SYSABEND) is present in the server region JCL.

System action: The AXM task is abnormally terminated.

User response: This probably indicates a logic error in server code, or an attempt to use some internal component of the server outside its correct context.

If the procedure name in the message begins with AXM, this probably indicates that the server code which called it has passed inconsistent parameters, such as an invalid address when releasing main storage.

Module: AXMER

Destination: Console and print file

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AXM event management messages

AXMEV0001 AXM only supports operating system WAIT on MVS.

Explanation: An attempt has been made to issue an operating system WAIT within an AXM server, but the server is not running on MVS. In this case, the MVS POST exit mechanism used by AXM is unavailable and operating system waits cannot be supported.

System action: The program is abnormally terminated.

User response: None.

Module: AXMEV

Destination: Console

AXMEV0003 The AXM POST exit could not be created because AXM system services are not available.

Explanation: AXM server region initialization needed to define the MVS POST exit used by AXM for operating system waits, but AXM system services were not available within the current MVS image.

System action: The server region is terminated with return code 8.

User response: Start up AXM system services first then restart the server region. AXM system services are normally started at IPL using a subsystem definition in IEASSNxx specifying AXM as the subsystem name and AXMSI as the initialization routine. They can also be started up without an IPL by defining the subsystem dynamically using the SETSSI command.

Module: AXMEV

Destination: Console and print file

AXMEV0004 The AXM POST exit could not be created, return code was *rc*.

Explanation: The MVS POST exit used by AXM for operating system waits could not be created because the AXM system services routine gave a non-zero return code. The only known reason for this is that AXM system services have been withdrawn, which should not be possible in a production environment.

System action: The server region is terminated with return code 8.

User response: None.

Module: AXMEV

Destination: Console and print file

AXMEV0005I The AXM POST exit had already been created for this address space.

Explanation: During server initialization, AXM system services found that the MVS POST exit used by AXM for operating system waits had already been created for this address space. AXM therefore bypassed trying to create the same POST exit again as this would have resulted in an abend 702-04.

This can occur when a previous server execution in the same address space was terminated abnormally.

System action: Processing continues

User response: None.

Module: AXMEV

Destination: Console and print file

AXMEV0006I The AXM POST exit could not be deleted, return code was *rc*.

Explanation: The MVS POST exit used by AXM for operating system waits could not be deleted because the AXM system services routine gave a non-zero return code. The only known reason for this is that AXM system services have been withdrawn, which should not be possible in a production environment.

System action: Processing continues.

User response: None.

Module: AXMEV

Destination: Console.

AXM stack (LIFO) storage messages

AXMLF0001S LIFO storage cannot be set up because the PRV size exceeds 4K.

Explanation: AXM initialization has detected that the total link-edited size of the pseudo-register vector (PRV) for the server application load module exceeds the maximum size of 4096 supported by AXM. The PRV contains task-related variables used by AXM resource management plus any task-related data areas defined by server code using the Assembler DXD operation code or Q-type address constants.

System action: The server is abnormally terminated.

User response: The server programmer needs to decrease the size of task-related variables defined in the PRV. When a large amount of task-related information needs to be stored, it is better to store the information in some separately acquired storage area (such as AXM heap storage) and put only a pointer to it in the PRV.

Module: AXMLF

Destination: Console

AXM lock management messages

AXMLK0001 Lock at *address* is already owned for shared use by this task.

Explanation: An AXM server program attempted to acquire exclusive ownership of an AXM lock which was already in shared ownership for the current task. This is not allowed, as the task cannot wait for itself.

System action: The AXM lock request is rejected.

User response: The server programmer needs to modify the program logic. It could for example use an AXM lock PROMOTE to convert the shared lock to an exclusive lock.

Module: AXMLK

Destination: Console and print file

AXMLK0002 *function* failed because lock at *address* is not owned by this task.

Explanation: An AXM server program tried to release, demote or promote an AXM lock but the lock was not owned by the current AXM task.

System action: The AXM lock request is rejected.

User response: The server program logic is in error.

Module: AXMLK

Destination: Console and print file

AXM operating system interface messages

AXMOS0001I The main procedure entry point is *name* at address *address*.

Explanation: This message is written to the print file during AXM initialization to indicate the name and entry point address of the server main procedure. This is primarily for debugging purposes.

System action: Processing continues.

User response: None.

Module: AXMOS

Destination: Print file

AXMOS0002 The main procedure is missing, or the END statement does not name the entry point.

Explanation: The AXM server load module which is being executed does not contain a procedure which has been identified as the AXM main procedure.

System action: The server region is terminated with return code 16.

User response: Check that the main procedure was correctly included in the link edit. If it was, make sure that its entry point name was correctly specified on the END statement and that it was assembled using AXM macros with the macro AXMSET appearing before the MODULE statement and the option ENVIRON=AXM specified on the MODULE statement.

Module: AXMOS

Destination: Console and SYSPRINT

AXM storage page pool management messages

AXMPG0001I The main free area above 16M was at address *xxxxxx*, size *nnnn*K.

Explanation: This message is written to the print file during AXM initialization to indicate the size of the largest area of 31-bit addressable private region storage available at that time.

System action: Processing continues.

User response: None.

Module: AXMPG

Destination: Print file

AXMPG0002I The main free area below 16M was at address *xxxxxx1*, size *nnnn*K.

Explanation: This message is written to the print file during AXM initialization to indicate the size of the largest area of 24-bit addressable private region storage available at that time.

System action: Processing continues.

User response: None.

Module: AXMPG

Destination: Print file

AXMPG0003I Storage page pool *areaname* created, address *xxxxxx*, size *nnnn*K.

Explanation: This message is written to the print file during AXM initialization to show the size and address of each storage page pool as it is created. Once this has been done, most AXM storage requests are allocated from this page pool rather than with MVS GETMAIN.

System action: Processing continues.

User response: None.

Module: AXMPG

Destination: Print file

AXMPG0004I Usage statistics for storage page pool *areaname***:**

Explanation: This message shows statistics for the named storage page pool (since the most recent statistics reset, if any). It is automatically written to the print file at AXM region termination, and may also be requested at other times by the server.

The detailed message layout is as follows:

```
    Size     In Use  Max Used      Free  Min Free
      nK         nK        nK        nK        nK
    100%         n%        n%        n%        n%
             Gets     Frees   Retries     Fails
                n         n         n         n
```

Each of the storage statistics is shown in two forms, as a number of kilobytes and as a percentage of the total size.

The individual fields have the following meanings:

Size Total size of the storage pool.

In Use The amount of storage which is currently in use.

Max Used
The highest amount of storage which has been in use.

Free The amount of storage within the pool which is current free.

Min Free
The lowest amount of storage which has been free.

Gets The number of requests to obtain storage within the pool.

Frees The number of requests to release storage within the pool.

Retries The number of times that a storage request initially failed and was retried after merging any adjacent small free areas to form larger areas.

Fails The number of times that a storage request was unable to obtain the requested amount of storage even after a retry.

System action: Processing continues.

User response: None.

Module: AXMPG

Destination: Print file

AXM resource tracking messages

AXMRS0001 Tidy-up routine at *address* **failed to free resource tracking cell.**

Explanation: A server routine established an AXM resource tracking element specifying that a procedure was to be called to release the resource if the task was terminated without releasing the resource. The AXM task is now terminating, and the procedure identified in the tracking element was called, but the resource tracking element was still in existence when it returned. The entry point address of the relevant procedure is indicated in the message.

System action: The tracking element is released on the assumption that the resource has now been deleted, and AXM task termination continues.

User response: The server programmer needs to ensure that the procedure to release the resource also frees the resource tracking element.

Module: AXMRS

Destination: Console and print file

AXM server connection and system services messages

AXMSC0011I AXM system services initialization is in progress.

Explanation: AXM system services are being started up, normally as a result of being called by the AXM subsystem initialization routine.

System action: Processing continues.

User response: None.

Module: AXMSC

Destination: Console

AXMSC0012I AXM system services initialization has completed.

Explanation: AXM system services are now fully available in the current MVS image.

System action: AXM cross-memory server connection requests and requests for the POST exit system services will now be accepted.

User response: None.

Module: AXMSC

Destination: Console

AXMSC0013 AXM system services have already been initialized.

Explanation: An attempt was made to set up AXM

system services again when they are already active in the current MVS image.

System action: The attempt is ignored.

User response: None.

Module: AXMSC

Destination: Console

AXMSC0021I AXM system services termination is in progress.

Explanation: AXM system services are being withdrawn. This is only possible if they were initialized using the AXM system region program AXMSR instead of being set up via subsystem initialization.

System action: The AXM system services program call table is deleted and all entry points in the AXM system services anchor are replaced with dummy routines which return an indication that the service are not available.

User response: Note that the results of attempting to call any AXM system service around this time are unpredictable. AXM system services should never be withdrawn in a production environment at any time when it is possible that they could be in use.

Module: AXMSC

Destination: Console

AXMSC0022I AXM system services termination has completed.

Explanation: AXM system services have been closed down for this MVS image.

System action: AXM system services are no longer available.

User response: None.

Module: AXMSC

Destination: Console

AXMSC0031I Connection to server *prefix.name* has been opened.

Explanation: The current region has established an AXM connection to the AXM server *prefix.name*.

System action: Processing continues.

User response: None.

Module: AXMSC

Destination: Console

AXMSC0032 Connection to server *prefix.name* failed because the server was not found.

Explanation: The current region tried to establish an AXM connection to the AXM server *prefix.name* but could not do so because there is no active server of that name enabled for AXM connections.

System action: The connection attempt is rejected with return code 8, reason code 32.

User response: Ensure that the server is started and that its name was specified correctly.

Module: AXMSC

Destination: Console

AXMSC0033 Connection to server *prefix.name* was rejected by the security system.

Explanation: The current region tried to establish an AXM connection to the AXM server *prefix.name* but the request was rejected by the security system.

System action: The connection attempt is rejected with return code 8, reason code 33.

User response: See the previous AXM message giving details of the results of the security check.

Module: AXMSC

Destination: Console

AXMSC0034 Connection to server *prefix.name* failed because all AXM connections are in use.

Explanation: The current region tried to establish an AXM connection to the AXM server *prefix.name* but the maximum number of AXM connections supported within an MVS image (currently 4096) has been reached.

System action: The connection is rejected with return code 8, reason code 34.

User response: If you anticipate a need for more than 4096 AXM server connections within a single MVS image, you will need assistance from IBM. See the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: AXMSC

Destination: Console

AXMSC0035 Connection to server *prefix.name* failed because request limit *reqs* exceeds 9999.

Explanation: The current region tried to establish an AXM connection to the AXM server *prefix.name* but the connection parameter specifying the maximum number of concurrent requests to be supported exceeds 9999.

System action: The connection is rejected with return code 8, reason code 35.

User response: Check whether the server interface program is specifying the correct value for the maximum number of concurrent requests.

Module: AXMSC

Destination: Console

AXMSC0036 Connection to server *prefix.name* was rejected by the server.

Explanation: The current region tried to establish an AXM connection to the AXM server *prefix.name* but the server-defined connection exit rejected the request.

System action: The connection is rejected with return code 8, reason code 36.

User response: The reason for the rejection depends on the server code, but this typically occurs if the server is preparing to close down or has insufficient resources to accept another connection.

Module: AXMSC

Destination: Console

AXMSC0037 Connection to server *prefix.name* failed because the server is terminating.

Explanation: The current region tried to establish an AXM connection to the AXM server *prefix.name* but the server entered termination processing while the connection request was in progress.

System action: The connection is rejected with return code 8, reason code 37. The instance of the server that was being terminated will no longer be visible to any new connection attempts.

User response: Retry the connection when the server has been restarted.

Module: AXMSC

Destination: Console

AXMSC0038 Connection to server *prefix.name* failed because this address space is already connected to it.

Explanation: The current region tried to establish an AXM connection to the AXM server *prefix.name* but it already has a connection to the same server region. AXM does not support multiple connections from the same region to the same server region.

System action: The connection is rejected with return code 8, reason code 38.

User response: None.

Module: AXMSC

Destination: Console

AXMSC0041I Connection to server *prefix.name* has been closed.

Explanation: An AXM connection from the current region to the named server has been terminated, either as a result of being explicitly closed by this region or as a result of the termination of the MVS TCB which originally established the connection.

System action: Processing continues.

User response: None.

Module: AXMSC

Destination: Console

AXMSC0042 Connection close failed for token *xxxxxxxx*, reason is *n*.

Explanation: An attempt was made to close an AXM connection explicitly but the specified connection token did not refer to an active connection owned by the current region, or the connection could not be closed for some other reason.

The reason code indicates which validity check failed within procedure AXMSCCLS. Reason code 9 indicates that a request issued via the connection has not yet completed. Any other reason code probably indicates an incorrect token.

System action: The attempt is rejected with return code 8, reason code 42.

User response: Check that the connection close request is specifying the correct connection token and that there are no incomplete requests for the connection.

Module: AXMSC

Destination: Console

AXMSC0051I Server *prefix.name* is now enabled for connections.

Explanation: This AXM server has completed initialization and is now available for connections from other address spaces.

System action: Processing continues.

User response: None.

Module: AXMSC

Destination: Console

AXMSC0052 Server *prefix.name* cannot be enabled because it is already active in another address space.

Explanation: Only one instance of a given AXM server name can be active in an MVS image at a time.

System action: The attempt to enable the server

interface is rejected with return code 8, reason code 52.

User response: None.

Module: AXMSC

Destination: Console

AXMSC0053 Server *prefix.name* cannot be enabled because caller is not APF authorized.

Explanation: AXM requires that an AXM server region must be running APF authorized in order to be allowed to enable its server interface.

System action: The attempt to enable the server interface is rejected with return code 8, reason code 53.

User response: Ensure that the server program is executed from an APF authorized library and is link-edited with AC(1).

Module: AXMSC

Destination: Console

AXMSC0054 Server *prefix.name* cannot be enabled because the security system rejected the request.

Explanation: The security system detected that the server region userid was not correctly authorized to act as an AXM server with the specified server name.

System action: The attempt to enable the server interface is rejected with return code 8, reason code 54.

User response: See the previous AXM message giving details of the results of the security check.

Module: AXMSC

Destination: Console

AXMSC0061I Server *prefix.name* is now disabled for connections.

Explanation: This AXM server is terminating and is no longer available for connections from other address spaces. This occurs either when the server explicitly disables its interface or when the server job step task terminates.

System action: Processing continues.

User response: None.

Module: AXMSC

Destination: Console

AXMSC0062 Server disable failed for token *xxxxxxxx*, reason is *n*.

Explanation: An attempt to disable the server interface failed because the specified server interface token did not correctly identify an active server interface established by the current address space. The reason code provides an internal indication of which validity check failed within procedure AXMSCDIS. All reason codes probably indicate an incorrect token.

System action: The attempt to disable the server interface is rejected with return code 8, reason code 62. If the server interface is still enabled, it will be disabled automatically when the job step task terminates.

User response: As the server interface token is stored internally by AXM, the only known possible reason for this message is storage overwriting within the server region.

Module: AXMSC

Destination: Console

AXMSC0063 Server *prefix.name* cannot be disabled because caller is not APF authorized.

Explanation: AXM requires that an AXM server region must be running APF authorized in order to be allowed to disable its server interface.

System action: The attempt to disable the server interface is rejected with return code 8, reason code 63.

User response: Ensure that the server program is executed from an APF authorized library and is link-edited with AC(1).

Module: AXMSC

Destination: Console

AXMSC0071 Server name *prefix.name* has incorrect syntax for access checks.

Explanation: The security checking routine has detected that the AXM server name specified on a connection request or on a server enable request is not in the correct form, for example because either the prefix or name is blank. This means that the security check cannot be performed.

System action: A return code is set to indicate that the security check failed.

User response: Check that the server prefix and name are specified correctly. The prefix is normally defined by the server, but the name may be set from a user-specified server parameter.

Module: AXMSC

Destination: Console

AXMSC0072 *level* access authorization was denied for FACILITY *facility*.

Explanation: The external security manager has indicated that the current region is not authorized for the required level of access to the specified facility.

System action: A return code is set to indicate that the security check failed.

User response: Check whether the userid for the region has been authorized to access the specified facility resource name.

Module: AXMSC

Destination: Console

AXMSC0073 *level* **access authorization is unavailable for FACILITY** *facility***.**

Explanation: The external security manager has indicated that it is unable to determine whether the current region is authorized for the required level of access to the specified facility. This message is only issued if it is not possible for the security routine to determine whether security checking is actually required. In cases where it is obvious that no security check is required (for example because no external security manager is installed), access is granted anyway.

System action: A return code is set to indicate that the security check failed.

User response: Check whether the external security manager is available and whether the security definitions for the specified facility have been provided.

Module: AXMSC

Destination: Console

AXMSC0074 RACROUTE REQUEST=AUTH gave R15=*xxxxxxxx***, SAFPRRET=***xxxxxxxx***, SAFPRREA=***xxxxxxxx***.**

Explanation: This message provides additional details about the results of a security check in any case where access is not granted. See the documentation of the RACROUTE macro for further information.

System action: Processing continues.

User response: None.

Module: AXMSC

Destination: Console

AXMSC0075 RACROUTE REQUEST=STAT gave R15=*xxxxxxxx***, SAFPRRET=***xxxxxxxx***, SAFPRREA=***xxxxxxxx***.**

Explanation: This message provides additional details about the results of a security check in any case where access is not granted. See the documentation of the RACROUTE macro for further information.

System action: Processing continues.

User response: None.

Module: AXMSC

Destination: Console

AXMSC0991I Creating new AXM system services anchor at *address***.**

Explanation: This message is issued during AXM system services initialization to enable the system services anchor to be located if necessary for diagnostic purposes.

System action: AXM system services initialization processing continues.

User response: None.

Module: AXMSC

Destination: Console

AXMSC0992I Deleting old AXM system services anchor at *address***.**

Explanation: This message is issued during AXM system services initialization if AXM system services were previously active but had been terminated (which is not possible in normal production environment). The old system services anchor is retained after AXM termination because it contains the system LX to be used if AXM is restarted. This message gives the address of the old system services anchor for diagnostic purposes.

System action: AXM system services initialization processing continues.

User response: None.

Module: AXMSC

Destination: Console

AXM subsystem initialization messages

AXMSI0001I AXM subsystem initialization is in progress.

Explanation: The AXM subsystem initialization program has been started in order to initialize AXM system services.

System action: AXM system services will be loaded and initialized.

User response: None.

Module: AXMSI

Destination: Console

AXMSI0002I AXM subsystem initialization has completed.

Explanation: The AXM subsystem initialization program has completed execution.

System action: The program returns control to MVS.

User response: None.

Module: AXMSI

Destination: Console

AXMSI0003 AXM subsystem initialization return code *retcode*, reason code *rsncode*.

Explanation: The AXM subsystem initialization routine has not completed normally. This message indicates the final return code and reason code. This is normally the return code from AXM system services initialization.

System action: The subsystem initialization routine returns control to MVS.

User response: See the previous AXM message describing the cause of the problem. The reason code will normally be the number of an error message issued by AXMSC.

Module: AXMSI

Destination: Console

AXMSI0004 AXM subsystem initialization can only run in Master Scheduler address space.

Explanation: An attempt has been made to invoke the AXM subsystem initialization program AXMSI in some other way than as an MVS subsystem initialization program running in the Master Scheduler region (ASID 0001).

System action: The subsystem initialization program is abnormally terminated.

User response: None.

Module: AXMSI

Destination: Console

AXM system region messages

AXMSR0001I AXM system region initialization is in progress.

Explanation: An AXM system region is being started. This is used to initialize AXM system services in a testing environment for development purposes, and allows AXM system services to be closed down and restarted without an IPL.

System action: Processing continues.

User response: None.

Module: AXMSR

Destination: Console

AXMSR0002I AXM system region initialization has completed.

Explanation: AXM system services have been successfully initialized from the AXM system region.

System action: Processing continues.

User response: The system region may be closed down again using the MVS STOP command but this should only be done when it is certain that no AXM services are being used within the MVS image.

Module: AXMSR

Destination: Console

AXMSR0003I AXM system region termination is in progress.

Explanation: The operator has requested termination of the AXM system region using the MVS STOP command.

System action: AXM system services are terminated.

User response: None.

Module: AXMSR

Destination: Console

AXMSR0004I AXM system region termination has completed.

Explanation: The AXM system region has completed termination.

System action: Control is returned to MVS and the job step ends.

User response: None.

Module: AXMSR

Destination: Console

AXMSR0011 AXM system region can only run under MVS/ESA.

Explanation: An attempt was made to execute the AXM system region program AXMSR in a non-MVS environment.

System action: The system region program terminates.

User response: None.

Module: AXMSR

Destination: Console

AXMSR0012 AXM system region program AXMSR needs to be APF authorized.

Explanation: An attempt was made to execute the AXM system region program AXMSR without APF authorization.

System action: The system region program terminates.

User response: Ensure that the module AXMSR is stored in an APF-authorized library and is link-edited with AC(1).

Module: AXMSR

Destination: Console

AXMSR0013 AXM system region LOAD for *name* failed with completion code *xxx*-*nn*.

Explanation: The attempt to LOAD the system services module (AXMSC) failed.

System action: The system region program terminates.

User response: See the description of the system completion code *xxx* in *MVS/ESA System Codes* for the reason that the LOAD failed.

Module: AXMSR

Destination: Console

AXMSR0021 AXM system region does not support this command: *text*

Explanation: An attempt was made to issue a command to the AXM system region using the MVS MODIFY command. The AXM system region only supports the MVS STOP command, and does not support commands entered via MODIFY.

System action: The command is ignored.

User response: If the intention was to close down the system region, use the MVS STOP command instead.

Module: AXMSR

Destination: Console

AXMSR0022I AXM system region STOP command has been accepted.

Explanation: An operator has issued a STOP command to close down the AXM system region.

System action: AXM system services will be terminated.

User response: None.

Module: AXMSR

Destination: Console

AXM trace and print file management messages

AXMTR0001 The *ddname* print file could not be opened.

Explanation: The AXM trace and print file with the specified ddname (usually AXMPRINT or SYSPRINT) could not be opened during AXM initialization.

System action: Print file output requests will be ignored.

User response: Ensure that the appropriate DD statement is present. The default ddname is AXMPRINT, but this may be overridden to SYSPRINT by an AXMTRDEF definition within the server code if the server does not need to reserve the name SYSPRINT for any other purpose.

Module: AXMTR

Destination: Console

AXM address lookup (WHERE) messages

AXMWH0001I Address *address* is at +*offset* in *modtype* module *modname*.

Explanation: This message may be produced after an abend or TRAP message to identify the module containing the error address, if the module is known to MVS. The information about the module and type is obtained using the MVS macros CSVQUERY or NUCLKUP.

System action: Processing continues.

User response: None.

Module: AXMWH

Destination: Console and print file

AXMWH0002I Address *address* is at +*offset* in procedure *procname*.

Explanation: This message may be produced after an abend or TRAP message to identify the procedure containing the error address, if the storage is within a known module and a standard SAVE sequence including a procedure identifier appears at some point before the error address.

System action: Processing continues.

User response: None.

Module: AXMWH

Destination: Console

AXM cross-memory interface messages

AXMXM0011 Server *prefix.name* cannot be enabled because AXM system services are not available.

Explanation: An attempt has been made to enable a server interface but AXM system services have not been initialized within this MVS image.

System action: The server enable request is rejected.

User response: Ensure that AXM system services are started then start the server again.

Module: AXMXM

Destination: Console and SYSPRINT

AXMXM0012 Enable failed for server *prefix.name*, return code *retcode*, reason *rsncode*.

Explanation: The server interface could not be enabled. The specific reason will have been indicated by an earlier AXMSC message.

System action: The server enable request is rejected.

User response: None.

Module: AXMXM

Destination: Console and SYSPRINT

AXMXM0021 ABEND *xxx-rr* occurred at *address*, data *word1 word2 word3*.

Explanation: The ARR routine for an AXM cross-memory program call routine has intercepted an abend in a cross-memory mode AXM task and has passed the associated SDWA to a task in the server address space to issue the appropriate diagnostic messages. The abend code is shown as three hexadecimal digits for a system completion code or four decimal digits for a user completion code. The data consists of the twelve bytes around the PSW address as provided by MVS in the SDWA.

System action: The ARR will already have completed processing when this message is issued, as the message is written out by the server region. If recovery is allowed, the ARR terminates the affected AXM internal task, in which case the return code from the cross-memory request will consist of the completion code in the usual MVS format but with the high-order bit set to indicate an abend. If recovery is not allowed, the ARR percolates the error, passing the abend to the requesting region.

The diagnostic routine which writes this message will call AXMWH which attempts to identify the module and procedure in which the abend occurred and writes out a further message if successful. It then releases the MVS SDWA. Server execution is not directly affected by an abend in cross-memory mode.

User response: Look up the completion code to identify the cause of the abend.

Module: AXMXM

Destination: Console and SYSPRINT

AXMXM0022 TRAP occurred at offset *offset* in *procname*.

Explanation: An internal logic error in a server module or invalid parameters on a server request resulted in a TRAP macro being executed at the specified location in cross-memory mode.

The system will normally produce a symptom dump message on the job log, and a full dump of the connected region may be produced if an appropriate DD statement (SYSUDUMP, SYSMDUMP or SYSABEND) is present in the JCL for the connected region.

System action: The AXM task is abnormally terminated.

User response: This probably indicates a logic error in server code, or an attempt to use some internal component of the server outside its correct context.

If the procedure name in the message begins with AXM, this probably indicates that the server code which called it has passed inconsistent parameters, such as an invalid address when releasing main storage.

Module: AXMXM

Destination: Console

Chapter 2. Transaction abend codes

When abnormal conditions occur, CICS can send a message to the CSMT transient data destination containing the transaction ID, the program name and the abend code.

Here is an example:

```
DFHAC2236: date time applid Transaction tranid abend primary abcode in program program name
term termid backout successful { batchid = }batchid. message
```

Alternatively, the application can intercept abends by including an active EXEC CICS HANDLE ABEND command. The actual abend code can be determined by issuing the EXEC CICS ASSIGN command with the ABCODE option.

The transaction identification code *tranid* usually consists of the 4 characters defined to CICS. However, when a transaction is initiated by using a light pen, an operator identification (OPID) card reader, or 3270 PA or PF keys (specified in the TASKREQ= operand), CICS creates an internal transaction identification in the form of a 1-byte 3270 attention identification (AID) code followed by 3 bytes of X'FF'.

The code that may actually appear in the message in place of the internally-created transaction identification will be **xx**, where *xx* is the character translation of the 3270 AID code. To prevent ambiguity, the user should avoid using these codes as transaction identifiers.

The keys, the light pen (LPA), and OPID, and their corresponding printed AID codes are given in the following list:

PF1	*F1*	PF13	*C1*	LPA	*7E*
PF2	*F2*	PF14	*C2*	OPID	*E6*
PF3	*F3*	PF15	*C3*	PA1	*6C*
PF4	*F4*	PF16	*C4*	PA2	*6E*
PF5	*F5*	PF17	*C5*	PA3	*6B*
PF6	*F6*	PF18	*C6*		
PF7	*F7*	PF19	*C7*		
PF8	*F8*	PF20	*C8*		
PF9	*F9*	PF21	*C9*		
PF10	*7A*	PF22	*4A*		
PF11	*7B*	PF23	*4B*		
PF12	*7C*	PF24	*4C*		

An abend code indicates the cause of an error that may have been originated by CICS or by a user program. For most of the abend codes described, a CICS transaction dump is provided at abnormal termination.

All CICS transaction abend codes *abcode* are 4-character alphanumeric codes of the form **A***xxy*, where:

Aack 'M'
: is the IBM-assigned designation of a CICS transaction abend.

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xx is the 2-character code assigned by CICS to identify the module that detected an error.

y is the 1-character alphanumeric code assigned by CICS.

Format of information

For each transaction abend code, the following information is given:

- An explanation of events leading to or following the message.
- The action that has been or will be taken by CICS (system action).
- The action recommended for the user (console or terminal operator).
- The module or modules that can determine that the message should be sent (not necessarily the module or modules that can issue the macro to write the message.)

AAxx abend codes

AACA

Explanation: An invalid error code has been passed to the DFHTFP or DFHACP programs.

System action: CICS terminates the task abnormally with a dump.

User response: Notify the system programmer.

Module: DFHTFP,DFHACP

AAL1

Explanation: DFHALP was processing a request that deadlocked. The most likely reason for the abend is that an ALLOCATE QUEUE request has been suspended because there are no contention-winning links available.

AAL1 is issued for non time-out related deadlocks, for instance the task may have been cancelled.

AAL8 is issued for stall purges and deadlock time-outs.

System action: CICS terminates the task abnormally. A dump is taken.

User response: Ensure that there are enough contention-winning sessions available to satisfy the ALLOCATE QUEUE request.

If you are running with modegroups, ensure that there are contention-winning sessions available to satisfy the ALLOCATE request in that modegroup.

Module: DFHALP

AAL2

Explanation: Either an incorrect response (other than PURGED) was returned from the suspend of the allocated task, or an incorrect response was returned from the resume.

System action: The transaction is abnormally terminated with a dump.

User response: Check the return code from the resume or the suspend to determine the cause of the error.

Module: DFHALP

AAL3

Explanation: The task has been purged before a GETMAIN request to the storage manager (SM) domain was able to complete successfully. The task that first detected the purged condition provides an exception trace.

System action: The task is abnormally terminated with a CICS transaction dump.

User response: Investigate the reason why the task was purged. It was purged either by the master terminal operator or as a result of a deadlock timeout.

Module: DFHALP

AAL4

Explanation: An error (INVALID, DISASTER or unexpected EXCEPTION response) has occurred on a call to the storage manager (SM) domain. The domain that detected the original error provides an exception trace, a console message, and possibly a system dump (depending on the options specified in the dump table).

System action: The task is abnormally terminated with a CICS transaction dump.

User response: See the related message produced by the domain that detected the original error.

Module: DFHALP

AAL6

Explanation: An error (INVALID, DISASTER or EXCEPTION response) has occurred on a call to SIGNOFF_TERMINAL_USER by DFHALP during sign-off for a surrogate terminal session running CRTE. The domain that detected the original error provides an exception trace, a console message and, possibly, a system dump (depending on the options specified in the dump table).

System action: The task is abnormally terminated with a CICS transaction dump.

User response: See the related message produced by the domain that detected the original error.

Module: DFHALP

AAL7

Explanation: An error (INVALID, DISASTER or EXCEPTION response) has occurred on a call to schedule a remote terminal delete by DFHALP during sign-off for a surrogate terminal session running CRTE. The domain that detected the original error provides an exception trace, a console message and, possibly, a system dump (depending on the options specified in the dump table).

System action: The task is abnormally terminated with a CICS transaction dump.

User response: See the related message produced by the domain that detected the original error.

Module: DFHALP

AAL8

Explanation: DFHALP was processing a request that deadlocked. The most likely reason for the abend is that an ALLOCATE QUEUE request has been suspended because there are no contention-winning links available.

AAL1 is issued for non time-out related deadlocks.

AAL8 is issued for stall purges and deadlock time-outs.

System action: CICS terminates the task abnormally. A transaction or system dump is not taken unless the transaction dump table has been modified for AAL8.

User response: Ensure that there are enough contention-winning sessions available to satisfy the ALLOCATE QUEUE request.

If you are running with modegroups, ensure that there are contention-winning sessions available to satisfy the ALLOCATE request in that modegroup.

It might be necessary to increase the deadlock timeout (DTIMEOUT) value for the transaction to prevent this abend from recurring.

If you require a transaction or system dump for this abend then add AAL8 to the transaction dump table.

Module: DFHALP

AALA

Explanation: An error (INVALID, DISASTER or unexpected EXCEPTION response) has occurred on a call to the Atomservice Manager. The domain that detected the original error provides a trace entry and possibly a system dump (depending on the options specified in the dump table).

System action: The task is abnormally terminated with a CICS transaction dump.

User response: Inform the system programmer. Examine the trace and the dump to identify the point of error.

Module: DFHAMW2

AALC

Explanation: An error (INVALID, DISASTER or unexpected EXCEPTION response) has occurred on a call to the JVM server resource manager. The domain that detected the original error provides a trace entry and possibly a system dump (depending on the options specified in the dump table).

System action: The task is abnormally terminated with a CICS transaction dump.

User response: Inform the system programmer. Examine the trace and the dump to identify the point of error.

Module: DFHAMSJ

AALM

Explanation: An error (INVALID, DISASTER or unexpected EXCEPTION response) has occurred on a call to the log manager (LM) domain. The domain that detected the original error provides an exception trace, a console message, and possibly a system dump (depending on the options specified in the dump table).

System action: The task is abnormally terminated with a CICS transaction dump.

User response: See the related message produced by the domain that detected the original error.

Module: DFHAMLM

AALN

Explanation: An error (INVALID, DISASTER or unexpected EXCEPTION response) has occurred on a call to the TD manager. The domain that detected the original error provides a trace entry and possibly a system dump (depending on the options specified in the dump table).

System action: The task is abnormally terminated with a CICS transaction dump.

User response: Inform the system programmer. Examine the trace and the dump to identify the point of error.

Module: DFHAMTD

AALO

Explanation: An error (INVALID, DISASTER or unexpected EXCEPTION response) has occurred on a call to the CICS/DB2 table manager DFHD2TM. The domain that detected the original error provides a trace entry and possibly a system dump (depending on the options specified in the dump table).

System action: The task is abnormally terminated with a CICS transaction dump.

User response: Inform the system programmer. Examine the trace and the dump to identify the point of error.

Module: DFHAMD2

AALP

Explanation: An error (INVALID, DISASTER or unexpected EXCEPTION response) has occurred on a call to the Program Manager. The domain that detected the original error provides a trace entry and possibly a system dump (depending on the options specified in the dump table).

System action: The task is abnormally terminated with a CICS transaction dump.

User response: Inform the system programmer. Examine the trace and the dump to identify the point of error.

Module: DFHAMPG

AALQ

Explanation: An error (INVALID, DISASTER or unexpected EXCEPTION response) has occurred on a call to the Business Application Manager. The domain that detected the original error provides a trace entry and possibly a system dump (depending on the options specified in the dump table).

System action: The task is abnormally terminated with a CICS transaction dump.

User response: Inform the system programmer. Examine the trace and the dump to identify the point of error.

Module: DFHAMBA

AALR

Explanation: An error (INVALID, DISASTER or unexpected EXCEPTION response) has occurred on a call to the Temporary Storage Manager. The domain that detected the original error provides a trace entry and possibly a system dump (depending on the options specified in the dump table).

System action: The task is abnormally terminated with a CICS transaction dump.

User response: Inform the system programmer. Examine the trace and the dump to identify the point of error.

Module: DFHAMBA

AALS

Explanation: An error (INVALID, DISASTER or unexpected EXCEPTION response) has occurred on a call to the Global Enqueue Manager. The domain that detected the original error provides a trace entry and possibly a system dump (depending on the options specified in the dump table).

System action: The task is abnormally terminated with a CICS transaction dump.

User response: Inform the system programmer. Examine the trace and the dump to identify the point of error.

Module: DFHAMBA

AALT

Explanation: An error (INVALID, DISASTER or unexpected EXCEPTION response) has occurred on a call to the Internet Inter-Orb Protocol Manager. The domain that detected the original error provides a trace entry and possibly a system dump (depending on the options specified in the dump table).

System action: The task is abnormally terminated with a CICS transaction dump.

User response: Inform the system programmer. Examine the trace and the dump to identify the point of error.

Module: DFHAMOP

AALU

Explanation: An error (INVALID, DISASTER or unexpected EXCEPTION response) has occurred on a call to the Sockets Domain Manager. The domain that detected the original error provides a trace entry and possibly a system dump (depending on the options specified in the dump table).

System action: The task is abnormally terminated with a CICS transaction dump.

User response: Inform the system programmer. Examine the trace and the dump to identify the point of error.

Module: DFHAMSO

AALV

Explanation: An error (INVALID, DISASTER or unexpected EXCEPTION response) has occurred on a call to the Enterprise Java Domain. The domain that detected the original error provides a trace entry and possibly a system dump (depending on the options specified in the dump table).

System action: The task is abnormally terminated with a CICS transaction dump.

User response: Inform the system programmer. Examine the trace and the dump to identify the point of error.

Module: DFHAMEJ

AALW

Explanation: An error (INVALID, DISASTER or unexpected EXCEPTION response) has occurred on a call to the Web Domain. The domain that detected the original error provides a trace entry and possibly a system dump (depending on the options specified in the dump table).

System action: The task is abnormally terminated with a CICS transaction dump.

User response: Inform the system programmer. Examine the trace and the dump to identify the point of error.

Module: DFHAMWB

AALX

Explanation: An error (INVALID, DISASTER or unexpected EXCEPTION response) has occurred on a call to the Pipeline Manager. The domain that detected the original error provides a trace entry and possibly a system dump (depending on the options specified in the dump table).

System action: The task is abnormally terminated with a CICS transaction dump.

User response: Inform the system programmer. Examine the trace and the dump to identify the point of error.

Module: DFHAMPI

AALY

Explanation: An error (INVALID, DISASTER or unexpected EXCEPTION response) has occurred on a call to the ISC/IP Domain. The domain that detected the original error provides a trace entry and possibly a system dump (depending on the options specified in the dump table).

System action: The task is abnormally terminated with a CICS transaction dump.

User response: Inform the system programmer. Examine the trace and the dump to identify the point of error.

Module: DFHAMIS

AALZ

Explanation: An error (INVALID, DISASTER or unexpected EXCEPTION response) has occurred on a call to the Document Handler. The domain that detected the original error provides a trace entry and possibly a system dump (depending on the options specified in the dump table).

System action: The task is abnormally terminated with a CICS transaction dump.

User response: Inform the system programmer. Examine the trace and the dump to identify the point of error.

Module: DFHAMDH

AAM1

Explanation: DFHXMCL has returned an unexpected response during the install of a transaction class. This can be caused by the task being purged during the install.

System action: The transaction is abnormally terminated with a CICS transaction dump.

If an error has occurred, at the time the error is detected, CICS issues a DFHXM*nnnn* console message, records an exception trace entry and takes a system dump.

User response: Determine why the task has failed. If there is a system dump, use it together with the trace entry and the console message to resolve the problem. If there is no system dump, the task has been purged either by the master terminal operator or as a result of deadlock timeout.

Module: DFHAMP

AAM2

Explanation: DFHXMXD has returned an unexpected response during the install of a transaction definition. This can be caused by the task being purged during the install.

System action: The transaction is abnormally terminated with a CICS transaction dump.

If an error has occurred, at the time the error is detected, CICS issues a DFHXM*nnnn* console message, records an exception trace entry and takes a system dump.

User response: Determine why the task has failed. If there is a system dump, use it together with the trace entry and the console message to resolve the problem. If there is no system dump, the task has been purged either by the master terminal operator or as a result of deadlock timeout.

Module: DFHAMP

AAM3

Explanation: An error (INVALID, DISASTER or unexpected EXCEPTION response) has occurred on a call to the Loader Domain. The domain that detected the original error provides a trace entry and possibly a system dump (depending on the options specified in the dump table).

System action: The task is abnormally terminated with a CICS transaction dump.

User response: Inform the system programmer. Examine the trace and the dump to identify the point of error.

Module: DFHAMLD

AAM4

Explanation: An error (INVALID, DISASTER or unexpected EXCEPTION response) has occurred on a call to the Resource Lifecycle Manager. The domain that detected the original error provides a trace entry and possibly a system dump (depending on the options specified in the dump table).

System action: The task is abnormally terminated with a CICS transaction dump.

User response: Inform the system programmer. Examine the trace and the dump to identify the point of error.

Module: DFHAMRL

AAMA

Explanation: There is an internal logic error in DFHAMP.

System action: The task is abnormally terminated with a CICS transaction dump.

User response: You need further assistance from IBM to resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHAMP

AAMC

Explanation: The task was purged before a GETMAIN request to the storage manager domain was able to complete successfully.

System action: The task is abnormally terminated with a CICS transaction dump.

User response: Investigate the reason the task was purged. It was purged either by the master terminal operator or as a result of deadlock timeout.

Module: DFHAMP

AAMD

Explanation: An unexpected return code has been received from DFHDMP. This is due to an internal logic error.

System action: The task is abnormally terminated with a CICS transaction dump.

User response: You need further assistance from IBM to resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHAMP

AAMF

Explanation: An unexpected return code has been received following a call to the kernel (KE) domain. This might be due to an internal logic error.

System action: CICS terminates the task abnormally with a dump.

User response: You need further assistance from IBM to resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHAMP

AAMH

Explanation: An unexpected return code has been received following a call to DFHFCMT. This might be due to an internal logic error.

System action: CICS terminates the task abnormally with a dump.

User response: You need further assistance from IBM to resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHAMP

AAMI

Explanation: An unexpected return code has been received following a call to DFHFCRL. This might be due to an internal logic error.

System action: CICS terminates the task abnormally with a dump. You need further assistance from IBM to resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

User response:

Module: DFHAMP

AAMJ

Explanation: While installing a file, using RDO, a call was made to DFHFCFS to enable the file. An irrecoverable error was returned from DFHFCFS.

System action: The task is abnormally terminated with a CICS transaction dump.

At the time the error is detected, CICS writes a message to the console, records an exception trace entry and takes a system dump.

User response: Inform the system programmer. Examine the trace and the dump to identify the point of error.

Module: DFHAMP

AAMK

Explanation: While installing a file, using RDO, a call was made to DFHFCDN. An irrecoverable error was returned from DFHFCDN.

System action: The task is abnormally terminated with a CICS transaction dump. At the time the error is detected, CICS writes a message to the console, records an exception trace entry, and takes a system dump.

User response: Inform the system programmer, Examine the trace and dump to identify the point of error.

Module: DFHAMP

AAMN

Explanation: There has been an unexpected return code from a call to DFHPRPT. This might be due to an internal logic error.

System action: The task is abnormally terminated with a CICS transaction dump.

User response: You need further assistance from IBM to resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHAMP

AAMO

Explanation: An invalid return code was returned from DFHTOR, the CICS terminal object resolution program.

System action: The task is abnormally terminated with a CICS transaction dump.

User response: You need further assistance from IBM to resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHAMP

AAMP

Explanation: An unexpected return code has been received from DFHPUP. This might be due to an internal logic error.

System action: The task is abnormally terminated with a CICS transaction dump.

User response: You need further assistance from IBM to resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHAMP

AAMQ

Explanation: An attempt has been made to install a partner using RDO. However, the partner resource manager (PRM) is unavailable having failed to initialize during CICS initialization.

System action: The task is abnormally terminated with a CICS transaction dump.

User response: If you need to use the PRM, correct the problem which prevented the PRM from initializing, and restart CICS.

Module: DFHAMP

AAMS

Explanation: There has been an unexpected return code following a GETMAIN request to the storage manager. This is due to an internal logic error.

System action: The task is abnormally terminated with a CICS transaction dump.

User response: You need further assistance from IBM to resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHAMP

AAMT

Explanation: There is an internal logic error in DFHAMP due to an unexpected return code from DFHTMP.

System action: The task is abnormally terminated with a CICS transaction dump.

User response: You need further assistance from IBM to resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHAMP

AAMZ

Explanation: An unexpected return code has been received from DFHZCP. This is due to an internal logic error.

System action: The task is abnormally terminated with a CICS transaction dump.

User response: You need further assistance from IBM to resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHAMP

AAO2

Explanation: CPI Communications has detected an unexpected response from DFHLUC.

System action: The transaction is abnormally terminated with a CICS transaction dump.

User response: This is a CICS internal logic error.

A level 2 CICS trace for 'CP' of the transaction documents the course of events prior to this error (such as the modules called and their parameters). The level 2 trace also provides details of the error itself.

You need further assistance from IBM to resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHCPCBA

AAO3

Explanation: The CPI interface detected that a call was made to a CPI Communications function without CPI Communications being initialized. This implies that CPI Communications initialization failed while CICS was initializing.

System action: The transaction is abnormally terminated with a CICS transaction dump. An exception trace entry is also written when this event occurs.

User response: Check the console listing to determine the reason why CPI Communications failed to initialize during CICS initialization. Correct the problem and restart CICS.

If the console listing indicates that CPI Communications initialized successfully, you need further assistance to resolve the problem. Collect the console listing, the traces and the transaction dump. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHCPI

AAO4

Explanation: DFHZARL, or a module called by DFHZARL, has detected a logic error. This error is almost certainly caused by the module receiving invalid data or indicators from z/OS Communications Server.

System action: Before returning to the CPI Communications layer, DFHZARL calls DFHZNAC to clean up the session and put out messages on the CSNE log. CPI Communications abnormally terminates the transaction with a CICS transaction dump, and produces an exception trace entry.

User response: Check the CSNE log to determine the type of error. You may need further assistance from IBM to fully resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHCPCLR

AAO5

Explanation: The task was purged before a GETMAIN request to the storage manager (SM) domain was able to complete successfully. The domain that first detected the purged condition provides an exception trace.

System action: The task is abnormally terminated with a CICS transaction dump.

User response: Investigate the reason why the task was purged. It was purged either by the master terminal operator or as a result of deadlock timeout.

Module: DFHCPCBA, DFHCPCBI, DFHCPCBS

AAO7

Explanation: The CPI Communications syncpoint request handler has been passed an invalid DFHLUC parameter list. This is a CICS internal logic error.

System action: The transaction is abnormally terminated with a CICS transaction dump.

User response: A level 2 trace for 'CP' of the transaction shows the course of events before this error occurred (such as the modules called and their parameters) plus details of the error itself. You need further assistance from IBM to resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for

guidance on how to proceed.

Module: DFHCPSRH

AAO8

Explanation: The CPI Communications syncpoint request handler has been passed an invalid conversation control block (CPC). This is a CICS internal logic error.

System action: The transaction is abnormally terminated with a CICS transaction dump.

User response: A level 2 trace for 'CP' of the transaction shows the course of events before this error occurred (such as the modules called and their parameters) plus details of the error itself. You need further assistance from IBM to resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHCPSRH

AAO9

Explanation: A task has been purged either as a result of a purge from the master terminal operator via the CEMT transaction, or by the task being timed out after waiting for longer than the DTIMOUT (deadlock timeout) value specified for the transaction.

System action: The task is abnormally terminated with a CICS transaction dump.

User response: Investigate why the task was purged.

If the task was purged by the master terminal operator, this may have been in an attempt to clear the system which appeared to be deadlocked for some reason.

If the task was timed out automatically as a result of the DTIMOUT value being exceeded, this may be due to insufficient main storage being available for the number of tasks in the system. If the amount of main storage cannot be increased, the number of tasks in the system should be reduced to avoid short-on-storage situations. Another possibility would be to increase the value of the DTIMOUT option for the transaction.

Module: DFHCPCLR

AAOA

Explanation: An application has issued a CPI verb which CICS does not support. The entry point referenced in the application program was resolved in the link edit stub, but the function requested could not be resolved when control passed to CICS.

There are two possible reasons for this

- You have linkedited your application program with a CPI stub which supports more function than this release of CICS.
- The linkedit stub has been corrupted.

System action: The transaction is abnormally terminated with a CICS transaction dump. An exception trace entry is also written.

User response: At the time of the error, general register 0 points to an 8-byte character string which should match the name of the issued CPI call. Use the trace or the dump to verify that this character string is the name of a CPI function which is supported.

If the character string is not an intelligible character string, the stub has probably been corrupted.

Module: DFHCPI

AAOB

Explanation: An application has issued a CPI verb which specifies more than eight parameters.

System action: The transaction is abnormally terminated with a CICS transaction dump and an exception trace entry is also written.

User response: Change your application program so that the correct number of parameters is specified on the CPI call.

Module: DFHCPI

AAOC

Explanation: CPI Communications is invoked with an invalid number of parameters for call

System action: The transaction is abnormally terminated with a CICS transaction dump.

User response: The exception trace point produced with this abend contains the incorrectly issued CPI Communications verb name. Use this to determine where the application program was in error and amend it accordingly.

The *SAA CPI Communications Reference* manual, SC26-4399, provides a detailed description of all the CPI Communications verbs and how they should be called.

Module: DFHCPARH

AAOD

Explanation: The task was purged before a GETMAIN request to the storage manager (SM) domain was able to complete successfully. The domain that first detected the purged condition provides an exception trace.

System action: The task is abnormally terminated with a CICS transaction dump.

User response: Investigate the reason the task was purged. It was purged either by the master terminal operator or as a result of deadlock timeout.

Module: DFHCPCBI

AAOE

Explanation: The task was purged before a GETMAIN request to the storage manager (SM) domain was able to complete successfully. The domain that first detected the purged condition provides an exception trace.

System action: The task is abnormally terminated with a CICS transaction dump.

User response: Investigate the reason the task was purged. It was purged either by the master terminal operator or as a result of deadlock timeout.

Module: DFHCPCBA

AAOF

Explanation: The task was purged before a GETMAIN request to the storage manager (SM) domain was able to complete successfully. The domain that first detected the purged condition provides an exception trace.

System action: The task is abnormally terminated with a CICS transaction dump.

User response: Investigate the reason the task was purged. It was purged either by the master terminal operator or as a result of deadlock timeout.

Module: DFHCPCBS

AAOG

Explanation: During the processing of CMACCP (accept conversation), CPI Communications detected that the application was attached with an unsupported sync level.

System action: The transaction is abnormally terminated with a CICS transaction dump.

User response: This condition is caused by a back-end CPI Communications transaction being attached with a sync level that is not CM_NONE (0) or CM_CONFIRM (1).

Change the front-end transaction, (that is, the initiator of the conversation in the other system) so that it defines the sync level correctly.

Module: DFHCPCBA

AAOH

Explanation: Journaling of data sent on a CPI communications mapped conversation has failed. This condition is caused by a nonzero response from the CICS log manager.

Register 12 addresses the current TCA and field TCAJCAAD and register 4 address the JCA. The log manager request is contained in JCATR2 and the response code is in JCAJCRC.

Possible request codes are

```
X'8001' - WRITE
X'8003' - PUT
```

Possible response codes are

```
X'01' - IDERROR - Journal identification error
X'02' - INVREQ  - Invalid request
X'03' - STATERR - Status error
X'05' - NOTOPEN - Journal not open
X'06' - LERROR  - Journal record length error
X'07' - IOERROR - I/O error.
```

The address of the TIOA is contained in register 8 and its data length is in TIOATDL.

Analysis:

Register	Label	Description
R4=@JCA	TCZARQPJ	JCAJCRC is nonzero.

System action: The transaction is abnormally terminated with a CICS transaction dump.

User response: Use the dump to ascertain why the journal or log record could not be written correctly. If a journal record length error is indicated, TIOATDL may have been corrupted.

Module: DFHCPCOJ

AAOI

Explanation: The journaling of data received on a CPI Communications mapped conversation has failed.

Register 12 addresses the current TCA and field TCAJCAAD and register 4 address the JCA. The CICS log manager request is contained in JCATR2 and the response code is in JCAJCRC.

Possible request codes are

```
X'8001' - WRITE
X'8003' - PUT
```

Possible response codes are

```
X'01' - IDERROR - Journal identification error
X'02' - INVREQ  - Invalid request
X'03' - STATERR - Status error
X'05' - NOTOPEN - Journal not open
X'06' - LERROR  - Journal record length error
X'07' - IOERROR - I/O error
```

The address of the TIOA is contained in register 8 and its data length is in TIOATDL.

Analysis:

Register	Label	Description
R4=@JCA	TCZARQPJ	JCAJCRC is nonzero.

System action: The transaction is abnormally terminated with a CICS transaction dump.

User response: This condition is caused by an invalid response from the log manager. Use the dump to

ascertain why the journal or log record could not be written correctly. If a journal record length error is indicated, TIOATDL may have been corrupted.

Module: DFHCPCRI, DFHCPCRW

AAOJ

Explanation: CPI Communications has detected an unexpected response from one of its internal routines.

System action: The transaction is abnormally terminated with a CICS transaction dump.

User response: This is a CICS internal logic error.

A level 2 trace for 'CP' of the transaction shows the course of events prior to this error. For example, the modules called and their parameters. The level 2 trace also provides details of the error itself.

You need further assistance from IBM to resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHCPIC

AAOK

Explanation: CPI Communications has detected an unexpected call to one of its internal routines.

System action: The transaction is abnormally terminated with a CICS transaction dump.

User response: This is a CICS internal logic error.

A level 2 trace for 'CP' of the transaction shows the course of events prior to this error, for example, the modules called and their parameters. The level 2 trace also provides details of the error itself.

You need further assistance from IBM to resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHCPIC

AAOL

Explanation: CPI Communications has made an invalid call to DFHLUC.

System action: The transaction is abnormally terminated with a CICS transaction dump.

User response: This is a CICS internal logic error.

A level 2 trace for 'CP' of the transaction shows the course of events prior to this error, for example, the modules called and their parameters. The level 2 trace also provides details of the error itself.

You need further assistance from IBM to resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHCPCLR

AAOM

Explanation: The CPI Communications and the DFHZUSR state machines are out of synchronization.

System action: The transaction is abnormally terminated with a CICS transaction dump.

User response: This is a CICS internal logic error.

A level 2 trace for 'CP' of the transaction shows the course of events prior to this error. For example, the modules called and their parameters. The level 2 trace also provides details of the error itself.

You need further assistance from IBM to resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHCPCLR, DFHCPSRH

AAON

Explanation: CPI Communications has detected an unexpected response from DFHLUC.

System action: The transaction is abnormally terminated with a CICS transaction dump.

User response: This is a CICS internal logic error.

A level 2 trace for 'CP' of the transaction shows the course of events prior to this error. For example, the modules called and their parameters. The level 2 trace also provides details of the error itself.

You need further assistance from IBM to resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHCPCLR, DFHCPCLC

AAOO

Explanation: CPI Communications has been invoked with an invalid first parameter. The first parameter should be the code of the function to be performed. This is a CICS internal logic error.

System action: The transaction is abnormally terminated with a CICS transaction dump.

User response: A level 2 trace for 'CP' of the transaction shows the course of events before this error occurred (such as the modules called and their parameters) plus details of the error itself.

You need further assistance from IBM to resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHCPARH

AAOP

Explanation: The CPI Communications state machine has been requested to perform a state transition request that is considered to be an 'impossible' situation. (The *SAA CPI Communications Reference* manual, (SC26-4399) documents all these situations.)

There are two possible causes of this error

- The CPC (conversation control block) has been overwritten in such a way that the conversation state has been altered, or
- There is an error in the CPI Communications state machine.

System action: The transaction is abnormally terminated with a CICS transaction dump.

User response: A level 2 trace for 'CP' of the transaction shows the course of events prior to this error, for example, the modules called and their parameters. The level 2 trace also provides details of the error itself.

The transaction dump shows the CPC. You may need further assistance from IBM to fully resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHCPCFS

AAOQ

Explanation: The return code generated by CPI Communications does not have an entry in the state table against the current CPI Communications verb. This error is detected by the CPI Communications state machine.

System action: The transaction is abnormally terminated with a CICS transaction dump.

User response: This is a CICS internal logic error.

A level 2 trace for 'CP' of the transaction shows the course of events prior to this error, for example, the modules called and their parameters. The level 2 trace also provides details of the error itself.

You need further assistance from IBM to resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHCPCFS

AAOR

Explanation: CPI Communications has detected an invalid value in the CPC (conversation control block).

There are 2 possible causes of this error

- The CPC (conversation control block) has been overwritten, or
- There is an error in CPI Communications which causes it to reject valid values.

System action: The transaction is abnormally terminated with a CICS transaction dump.

User response: A level 2 trace for 'CP' of the transaction shows the course of events prior to this error, for example, the modules called and their parameters. The level 2 trace also provides details of the error itself.

Module: DFHCPIC

AAOS

Explanation: CPI Communications has detected that the conversation state is RESET for a situation where this should not occur. That is, the conversation control block (CPC) is about to be deleted.

There are two possible causes of this error

- The CPC has been overwritten, or
- There is an error in CPI communications.

System action: The transaction is abnormally terminated with a CICS transaction dump.

User response: A level 2 trace for 'CP' of the transaction shows the course of events prior to this error, for example, the modules called and their parameters. The level 2 trace also provides details of the error itself. You may need further assistance from IBM to fully resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHCPIC

AAOT

Explanation: While chaining through the CPCs (conversation control blocks) for a given conversation, CPI Communications detected that the chain was broken.

There are two possible causes of this error.

1. The CPC chain has been overwritten, or
2. There is an error in the CPI Communications chaining mechanism.

System action: The transaction is abnormally terminated with a CICS transaction dump.

User response: Determine which of the above caused the error.

A level 2 trace for 'CP' of the transaction shows the course of events prior to this error, for example, the modules called and their parameters. The level 2 trace also provides details of the error itself.

You may need further assistance from IBM to fully resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHCPCBI

AAOU

Explanation: CPI Communications has detected an error in the TP_name or partner_LU_name while processing an initialize conversation request. The TP_name or partner_LU_name is obtained by lookup of the sym_dest_name in the partner resource table (PRT).

There are two possible causes of this error.

1. The entry in the PRT contains invalid data, or
2. There is an error in the mechanism that returns the data from the PRT and interprets it.

System action: The transaction is abnormally terminated with a CICS transaction dump.

User response: A level 2 trace for 'CP' of the transaction shows the course of events prior to this error, for example, the modules called and their parameters. The level 2 trace also provides details of the error itself.

You need further assistance from IBM to resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHCPCBI

AAOV

Explanation: CPI Communications has detected that its internal state table is corrupted.

This error is detected by the CPI Communications state machine.

System action: The transaction is abnormally terminated with a CICS transaction dump.

User response: This is a CICS internal logic error.

A level 2 trace for 'CP' of the transaction shows the course of events prior to this error, for example, the modules called and their parameters. The level 2 trace also provides details of the error itself.

You need further assistance from IBM to resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHCPCFS

AAOW

Explanation: CPI Communications has detected an internal logic error in DFHCPCLC.

System action: The transaction is abnormally terminated with a CICS transaction dump.

User response: This is a CICS internal logic error.

A level 2 trace for 'CP' of the transaction shows the course of events prior to this error, for example, the modules called and their parameters. The level 2 trace also provides details of the error itself.

You need further assistance from IBM to resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHCPCLC

AAOX

Explanation: CPI Communications has detected a bad syncpoint return code which has been set on a synclevel 0 or 1 conversation. The bad return code is only expected on a synclevel 2 conversation.

System action: The transaction is abnormally terminated with a CICS transaction dump.

User response: This is a CICS internal logic error.

A level 2 trace for 'CP' of the transaction shows the course of events prior to this error, for example, the modules called and their parameters. The level 2 trace also provides details of the error itself.

You need further assistance from IBM to resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHCPIC

AAOY

Explanation: CPI Communications detected an invalid LL field in the GDS records from which it was receiving on a mapped conversation.

Although it is possible that the remote system is sending invalid records, it is more likely to be an error in the receive logic because DFHZARRC (a lower level receive module) also checks the LLs before passing them to CPI Communications.

System action: The transaction is abnormally terminated with a CICS transaction dump.

User response: Use CICS traces and, possibly a z/OS® Communications Server trace, to determine the data that was sent between both systems.

A level 2 CICS trace for 'CP' of the transaction documents the course of events prior to this error (such as the modules called and their parameters). The level 2 trace also provides details of the error itself.

You may need further assistance from IBM to fully resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHCPCRB

AAOZ

Explanation: CPI Communications has detected an invalid ID field in the GDS records it was receiving on a mapped conversation. The exception trace point that accompanies this abend gives the ID field in data 3.

The valid IDs are '12FF'X for application data and '12F1'X for null data.

System action: The transaction is abnormally terminated with a CICS transaction dump.

User response: Use CICS traces and, possibly, a z/OS Communications Server trace to determine the data that was sent between both systems.

A level 2 CICS trace for 'CP' of the transaction documents the course of events prior to this error (such as the modules called and their parameters). The level 2 trace also provides details of the error itself.

You may need further assistance from IBM to fully resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHCPCRB

ABxx abend codes

ABAC

Explanation: An activity issued EXEC CICS RETURN (without the ENDACTIVITY option) but no events were processed during the activation. The activity was executed with a RUN command.

System action: The task is abnormally terminated with a CICS transaction dump. The EXEC CICS HANDLE ABEND command cannot handle this abend.

User response: Investigate why the activity did not process any events.

Module: DFHBASP

ABAD

Explanation: An activity issued EXEC CICS RETURN ENDACTIVITY while there were activity completion events pending. The activity was executed with a RUN command.

System action: The task is abnormally terminated with a CICS transaction dump. The EXEC CICS HANDLE ABEND command cannot handle this abend.

User response: Investigate why the activity had pending activity completion events.

Module: DFHBASP

ABAE

Explanation: An activity issued EXEC CICS RETURN (without the ENDACTIVITY option) but no events were processed during the activation. The activity was executed with a LINK command.

System action: The task which issued the LINK is abnormally terminated with a CICS transaction dump. The EXEC CICS HANDLE ABEND command cannot handle this abend.

User response: Investigate why the activity did not process any events.

Module: DFHEIBAM

ABAF

Explanation: An activity issued EXEC CICS RETURN ENDACTIVITY while there were activity completion events pending. The activity was executed with a LINK command.

System action: The task which issued the LINK is abnormally terminated with a CICS transaction dump. The EXEC CICS HANDLE ABEND command cannot handle this abend.

User response: Investigate why the activity had pending activity completion events.

Module: DFHEIBAM

ABLA

Explanation: The task was purged before a GETMAIN request to the storage manager (SM) domain was able to complete successfully. The domain that first detected the purged condition provides an exception trace.

System action: The task is abnormally terminated with a CICS transaction dump.

User response: Investigate why the task was purged. It was purged either by the master terminal operator or as a result of deadlock timeout.

If the task was purged by the master terminal operator, this may have been in an attempt to clear the system which appeared to be deadlocked for some reason.

If the task was timed out automatically as a result of the DTIMOUT value being exceeded, this may be due to insufficient main storage being available for the number of tasks in the system. If the amount of main storage cannot be increased, the number of tasks in the system should be reduced to avoid short-on-storage situations. Another possibility would be to increase the value of the DTIMOUT option for the transaction.

Module: DFHMCP, DFHMCPE, DFHM32, DFHPBP, DFHRLR

ABLB

Explanation: An error (INVALID, DISASTER, or unexpected EXCEPTION response) has occurred on a call to the storage manager (SM) domain. The domain

that detected the original error provides an exception trace, a console message and, possibly, a system dump (depending on the options in the dump table).

System action: The task is abnormally terminated with a CICS transaction dump.

User response: Please see the related message produced by the domain that originally detected the error.

Module: DFHMCP, DFHMCPE, DFHM32, DFHPBP, DFHRLR

ABM0

Explanation: The map specified for a basic mapping support (BMS) request could not be located.

System action: The transaction is abnormally terminated with a CICS transaction dump.

User response: Check if the map has been defined. If it has, check that it has been specified correctly.

Module: DFHMCP, DFHMCX, DFHMCY

ABM1

Explanation: A basic mapping support (BMS) service is requested by a task associated with a terminal that is not supported by BMS. The request is not a routing request.

System action: The transaction is abnormally terminated with a CICS transaction dump.

User response: Do not use terminals not supported by BMS for applications using BMS services.

Check the terminal type and model number. Confirm that it is a terminal that is not supported by BMS. A list of terminals supported by BMS is given in the *CICS Application Programming Guide*. Check that the resource definition for the terminal accurately describes the physical terminal.

Problem determination: At the time of the abend, register 11 addresses the TCTTE, and TCTTETEA and register 6 address the TCTTE extension, TCTETTE.

Relevant fields are

```
TCTTEDDS  the device dependent suffix.
TCTTEMSS  the map set suffix.
```

Analysis: DFHRLR tests the device dependent suffix and the map set suffix in the TCTTE extension. If both of these are zero, the terminal is not supported by BMS and DFHRLR abends the task with the abend code ABM1.

Register	Label	Description
R4=	RLRSFXCK	TCTEDDS=X'00' and TCTEMSS=X'00'.
@TCTTETE		The device dependent suffix and the map set suffix have loaded into the lower two bytes of register 3 by the subroutine RLRSUFXS.

Module: DFHRLR

ABM2

Explanation: No user data was supplied for this BMS request. That is, the address of a user data area was not found in either TCTTEDA or TCAMSIOA.

When a BMS macro level output request is issued, the user must have placed the address of the data to be passed to BMS in TCTTEDA or TCAMSIOA before issuing the macro. The choice is made on the following criteria

- If the data is to be passed in a TIOA by a terminal-oriented task, the address of this TIOA may be placed either at TCTTEDA, or in TCAMSIOA together with the setting of binary zeros into TCTTEDA.
- If the data is being passed by a terminal-oriented task but not in a TIOA, the address of the TIOA-like area of this data must be placed in TCAMSIOA and binary zeros set into TCTTEDA.
- If the data is being passed by a non-terminal-oriented task, the address of the TIOA-like area of this data must be placed in TCAMSIOA. TCTTEDA cannot be referenced, because there is no TCTTE associated with this task.

If a task attempts to pass addresses from both TCTTEDA and TCAMSIOA, the address in TCTTEDA is the one selected.

The output services work area (OSPWA) is addressed by register 9. The TCTTE is addressed by register 11. The TCA is addressed by register 12.

The relevant fields are

Field **Description**

OSPIND01
: OSPWA indicator byte 1

OSPIOA
: Alternate I/O area address

OSPSIOA
: Address of address of data (TCTTEDA/TCAMSIOA)

OSPTIOA
: Address of user data found by BMS

OSPTR1-8
: BMS request data saved from the TCA

TCTTEDA
: Terminal data area address

TCAFCI
: Facility control indicator

TCAMSIOA
: Alternate I/O area address

Analysis: The ABM2 abend is invoked at one point in DFHMCP, at label MCPABEND. There are five regions in DFHMCP in which the user's data is sought

	Labels
TYPE=MAP	MCPMAP
TYPE=PAGEBLD,DATA=YES/ONLY	MCPPGBLD MCPGTIOA
TYPE=TEXTBLD,DATA=YES/ONLY	MCPPGBLD MCPGTIOA
Mapping but not PAGEBLD,DATA=YES/ONLY	MCPMAPNG
No (mapping,PAGEBLD,TEXTBLD,PAGEOUT)	MCPDFALT

"Mapping" refers to BMS requests that specify maps, that is OSPTR3 bits 5 or 6 or 7 or OSPTR4 bit 3 set on.

Each of these functional regions does a BAL to subroutine MCPFTIOA to search for a user data area. If a valid area (abend ABMU if not) is found, its address is put into OSPTIOA and the address of the data address (of TCAMSIOA or TCTTEDA) is set into OSPSIOA. If a data area is not found, OSPTIOA is cleared and OSPSIOA is now loaded with the address of OSPTIOA as a null data area.

On the BAL return, OSPTIOA is tested for a nonzero value. If it is zero, a branch to MCPABEND is taken.

System action: The transaction is abnormally terminated with a CICS transaction dump.

User response: The programmer must place the address of the data into TCTTEDA or TCAMSIOA, whichever is appropriate.

Firstly, check that the user has loaded TCTTEDA or TCAMSIOA with the address of the user data, by checking the application listing and the contents of TCTTEDA and/or TCAMSIOA.

Next, check that the BMS request has been correctly decoded by CICS by referring to the OSPWA request bytes (OSPTR1-8) or decoding the last BMS entry in the trace table. See OSPIND01 to check correct decoding of PAGEBLD or TEXTBLD, and TCAFCI bit 7 to identify whether the task is terminal-oriented or not.

At the abend point, register 1 contains the user data address last loaded, and register 4 the address of OSPTIOA as an address of null data.

If a CICS error is suspected, concentrate initially on subroutine MCPFTIOA, because this is a simple piece of code that shows the data-fetch logic. ABM2 condition is trapped early in the CICS decoding of the DFHBMS request and involves module DFHMCP only.

Case/Register	Label	Description
R9=@OSPWA	MCPMAP	OSPTR4 has OSPTRM (X'04') bit set for TYPE=MAP.
R9=@OSPWA	MCPPGBLD	OSPTR5 has OSPTRB (X'80') bit set and BMS sets bit OSPLMPB (X'08') in OSPIND01 for TYPE=PAGEBLD. OSPTR4 has X'40', X'80', or X'C0' set for DATA=NO, ONLY, or YES respectively, so should be X'80' or X'C0'.
R9=@OSPWA	MCPTXBLD	OSPTR7 has OSPTRX (X'80') bit set and BMS sets bit OSPLMTB (X'04') in OSPIND01 for TYPE=PAGEBLD. OSPTR4 has X'40', X'80', or X'C0' set for DATA=NO, ONLY, or YES respectively, so should be X'80' or X'C0'.
R9=@OSPWA	MCPMAPNG	OSPTR3 has OSPTSN (X'01'), OSPTSA (X'02'), or OSPTMN (X'04') bits set, or OSPTR4 has OSPTMA (X'10') bit set for mapping. OSPTR4 has X'04' or X'80' or X'C0' set for DATA=NO, ONLY, or YES respectively, so should be X'80' or X'C0'.
All R12=@TCA	MCPFTIOA	TCAFCI has TCAFCTRM (X'01') bit set if the task is terminal-oriented.
All R11=@TCTTE	MCPFTIOA	TCTTEDA could point to a use TIOA but does not, thus causing the abend.
All R12=@TCA	MCPFTIOA	TCAMSIOA could point to a user data area (TIOA or otherwise), but does thus causing the abend.
All R9=@OSPWA	MCPNTOTM	OSPTIOA contains the address of the user area found, so is zero. OSPSIOA points to OSPIOA (which is copied from TCAMSIOA) as being the second-dry data area sought by BMS for data . OSPIA (TCAMSIOA) was also zero so causing the abend.

Module: DFHMCP

ABM3

Explanation: A BMS input or output request has been issued from a task that is not terminal-oriented.

System action: The task is abnormally terminated with a CICS dump.

User response: The task issuing a BMS input or output request must be attached to a terminal.

Module: DFHMCP

ABM4

Explanation: An invalid request response has been received to a temporary storage PUT or PUTQ request issued by BMS. The data passed to the temporary storage program has an invalid length.

Abend in DFHMCP (see Analysis)

The OSPWA (output services work area) is in user storage and is printed in a transaction dump. It is addressed by register 9 at the time of the abend. Relevant fields are

```
OSPTITLE
OSPTTCNT
OSPPLTI
OSPTOTPG
```

The message control record (MCR) is an area of user storage obtained by BMS. It is addressed by register 8 at the time of the abend. The first 8 bytes contain storage accounting information. MCRLLBB contains the length of the MCR (halfword) abend in DFHTPP.

The page buffer is addressed by register 7 at the time of the abend. It contains storage accounting fields in the first 8 bytes and a halfword length at offset 8 (TSIOAVRL).

In both cases, the temporary storage use map (DFHTSMAP) is addressed from CSATSATA. TSMAPCOM contains the number of available bytes in a control interval on the temporary storage data set.

Analysis: If the temporary storage request preceding the abend is a DFHTS PUT, the abend occurred in DFHMCP. If the temporary storage request preceding the abend is a DFHTS PUTQ, the abend occurred in DFHTPP. If the abend occurred in DFHMCP, DFHMCP is attempting to put the message control record to temporary storage. Check the length of the MCR (MCRLLBB). It may be negative.

The length of the MCR is calculated by code following label MCPNODDS and is

```
28 + 21 * OSPTTCNT + (length of title record)
                   + (space for page/LDC table,
                      if needed)
```

The address of the title record is at OSPTITLE and the length is contained in the first halfword. Space for the page/LDC table is required if OSPPLT1 is nonzero, which should occur only for messages routed to LDC devices (3600, 3650, 3767, 3770, 3790). The number of entries is in OSPTOTPG. 2 bytes are required per entry.

If the abend occurred in DFHTPP, BMS is attempting to add a page to the temporary storage queue, and the page buffer will not fit in the control interval. TSIOAVRL contains the length of the page buffer.

For messages directed to 3270 devices, the page buffer consists of a 3270 data stream with a 4-byte page control area following it (a 3270 data stream may be larger than the number of characters available on the screen, particularly if extended 3270 attributes are used). For messages directed to other devices, the page buffer consists of a message formatted with NL characters, a 4-byte page control area following it. The length in TSIOAVRL should be less than the length in the preceding storage accounting area, otherwise an error has occurred in constructing the page, possibly in prior BMS requests.

In either of the above cases, if the length of the area being output appears valid, it is necessary to increase the control interval size for the temporary storage data set.

Register	Label	Description
DFHMCP		
R8=@MCR	MCPMCRTS	The MCR is too long or has invalid length ($4).
DFHTPP		
R7=@pgbuf	TPNOPGL or TPNODDS	The page buffer is too large.

System action: The transaction is abnormally terminated with a CICS transaction dump.

User response: You need further assistance from IBM to resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Determine from the trace table whether the abend occurred in DFHMCP or DFHTPP.

Check the length of the appropriate area.

If the MCR length is invalid, possible reasons are

- The title record specified in the TITLE option on a BMS ROUTE request has an invalid format, that is, it does not begin with a halfword length field or is more than 64 characters.
- The message is being routed to more terminals than intended. OSPTTCNT is very large, for example, if LIST=ALL is specified on a ROUTE request and there are a large number of terminals in the TCT.

If the page buffer length is too large, this may be because more data than intended is being built into the

page. If the page buffer length is greater than the length of the storage area indicated in the preceding storage accounting area, an error has occurred in page or text building, and the page buffer extends beyond the area allocated to it (that is, storage violation).

Module: DFHMCP, DFHTPP

ABM5

Explanation: A DFHTS TYPE=PURGE request has been issued with an invalid REQID. This incorrect request was issued by basic mapping support (BMS).

DFHTPR cannot find the terminal identifier for the current terminal in the terminal list in the message control record (MCR).

The TS identifier is built in TCATSDI before the TS purge is issued, although this has probably been overwritten before the dump is taken. The trace table entry for the DFHTS TYPE=PURGE contains the TS identifier in the last 8 bytes.

The OSPWA is addressed by register 9.

OPSTSID temporary storage identifier (8 bytes).

Register 8 points to the MCR.

Register 5 points to the current entry.

Register 0 points to the end of table.

Register 9 points to the TCTTE.

The terminal list starts at MCRIDLST and the terminal identifier is at the start of the terminal entry. Each terminal entry is X'15 bytes long.

Analysis: DFHMCP uses the temporary storage identifier in OSPTSID.

Cannot find the terminal identifier for this terminal in the terminal list in the MCR.

Register	Label	Description
R9=@(OSPWA)	MCPCKPGS	Code builds the temporary storage code in TCATSDI and issues DFHTS TYPE=PURGE macro, specifying IDERROR exit of MCPTSIDE, where the abend is raised.
R8=@(MCR)	TPRCKID	Code scans terminal list for a terminal entry that has the id of the current terminal, and if it cannot be found, links to TPRSNH to raise the abend.

System action: The transaction is abnormally terminated with a CICS transaction dump.

User response: Check the trace table and find the preceding PUT/PUTQ TS requests. Check whether the identifier for the PUT/PUTQ is the same as that for the PURGE. If it is not, find out how they differ. Check to see if the OSPWA has been corrupted.

This error is very unlikely, as the label indicates (TPRSNH - "Should Not Happen"). DFHTPS has scanned the MCR to identify the terminals to which this message is directed, and has created an AID to initiate CSPG (DFHTPR) at each of them. However, when DFHTPR retrieves the MCR, it cannot find the current terminal identifier in the list of terminals. Presumably the MCR has been corrupted between creation of the AID and dispatching of CSPG at the terminal. Check back through the trace table to find the instance of DFHTPS that built the AID for this terminal (transaction CSPS); it will have issued a TC LOCATE request to verify that the terminal identifier is valid, and this identifier can be seen in the trace entry.

Module: DFHMCP, DFHTPR

ABM6

Explanation: Transaction CSPS, scheduled internally by BMS, has not been installed.

System action: The transaction is abnormally terminated with a CICS transaction dump.

User response: Install the transaction CSPS (Group DFHBMS).

Module: DFHMCP

ABM7

Explanation: The trailer specified to be used while building pages of text data is longer than the page.

System action: The transaction is abnormally terminated with a CICS transaction dump.

User response: Correct the application program that issues the request with too long a trailer.

Module: DFHPBP

ABM8

Explanation: A BMS text request specified a value for the JUSTIFY option which is zero or too large for the page being built.

System action: The transaction is abnormally terminated with a CICS transaction dump.

User response: Correct the application program that specified too large or zero value for the JUSTIFY option.

Module: DFHPBP

ABM9

Explanation: The text data overflow routines have been reentered while text overflow was in process. This condition occurs when the line requirements for the text header and/or trailer exceed the line capacity of the page for which data is being formatted.

System action: The transaction is abnormally terminated with a CICS transaction dump.

User response: Reduce the number of lines required for the header and/or trailer or increase the page size of the terminal.

Module: DFHPBP

ABMA

Explanation: The user has supplied a terminal I/O area (TIOA) with an invalid data length that was either equal to zero or greater than the storage accounting length minus 12.

Alternatively, the length field of a header or trailer area provided by the application program is invalid (that is, not positive).

The output services work area (OSPWA) is in user storage and will be printed in a transaction dump. It is addressed by register 2 at the time of the abend. Relevant fields are:
- OSPTR7
- OSPHDRA
- OSPTRLA

Register 4 or OSPTIOA points to the TIOA. In the TIOA, the following fields are relevant
- TIOATDL
- TIOASAL

Analysis:

Register	Label	Description
R4=@TIOA	PBCKTDL	TIOATDL is zero or greater than TIOASAL-12.
R2=@OSPWA R0=length of trailer R8=@trailer	PBD20080	R0 (= first halfword of trailer) is zero. R8=OSPTRLA. OSPTR7 has X'20' bit set.
R2=@OSPWA R8=@header R0=length of header.	PBDTXHDR	R0 (= first halfword of header) is zero. R8=OSPHDRA. OSPTR7 has X'40' bit set.

System action: The transaction is abnormally terminated with a CICS transaction dump.

User response: Correct the program that supplied the erroneous data length.

Check the TIOA. If either of the conditions described is present, check the application program. For programs using command-level interface, the TIOA is obtained by CICS using the length of the data item passed in the FROM option on an EXEC CICS SEND MAP or EXEC CICS SEND TEXT command, or in the TRAILER or HEADER option on an EXEC CICS SEND TEXT or an EXEC CICS SEND PAGE command. Check the data item for zero length.

Header and trailer records have a special format described in the *CICS Application Programming Reference*. An ABMA abend occurs if the first halfword (the length) is not positive. Check the remainder of the header/trailer record for validity when the length is checked.

Module: DFHPBP, DFHMCP

ABMB

Explanation: The user has specified a cursor position in the BMS output request. It is larger than the current screen size for the 3270 for which output is being built.

System action: The transaction is abnormally terminated with a CICS transaction dump.

User response: Correct the program that specified the incorrect cursor location.

Use trace to identify the statement issuing the request. Check that the cursor position is being correctly set. The program may have been designed to run in alternate screen size mode but is being run in default screen size mode, or it may have been designed to run on a 3270 model different from the one in use. If the program is routing a message, the route list should be checked. If the program is to run with various 3270 models, the cursor position should be within the size of the smallest screen.

Problem determination: If the abend occurs in DFHPBP

At the time of the abend, register 2 points to the OSPWA and register 1 to the TTP. Relevant fields are
- OSPTR3 has X'10 bit set to indicate a user-specified cursor position
- OSPCP contains a halfword cursor position specified by user
- TTPSCSZ contains the halfword value of the screen size to compare against.

If the abend occurs in DFHMCP or DFHMCX
- Register 6 points to the OSPWA (in LIFO storage)
- OSPCP contains a halfword cursor position specified by user
- OSPTR3 has X'10 bit set to indicate a user-specified cursor position
- OSPSCSZ contains the halfword value of the screen size to compare against.

Analysis:

Register	Label	Description
In DFHPBP		
R2=@OSPWA	PBDBADC	OSPTR3 X'10' bit set indicates the user-specified cursor position.
R1=@TTP		TTPSCSZ halfword screen size.
		OSPCP halfword cursor position.
In DFHKCP or DFHMCX		
R6=@OSPWA	MCENEAU2	OSPTR3 X'10' bit set indicates the user-specified cursor position.
		OSPSCSZ halfword screen size.
		OSPCP halfword cursor position.

Module: DFHPBP, DFHMCP (for minimum-function BMS), DFHMCX

ABMC

Explanation: The CMSG transaction is attempting to send a message to a greater number of terminals than is possible. There is no fixed maximum because the value depends on the other operands specified on the routing command.

System action: The transaction is abnormally terminated with a CICS transaction dump.

User response: Redefine the route list.

Module: DFHMCP

ABMD

Explanation: DFHTPR or DFHTPP has issued a DFHDI TYPE=SEND and has received a return code other than “FUNCERR-REQUEST FOR CHANGE DIRECTION SIGNALED” or “NORESP”

System action: The transaction is abnormally terminated with a CICS transaction dump.

User response: Inform your system programmer.

Module: DFHTPP, DFHTPR

ABME

Explanation: DFHTPR or DFHTPP has detected an invalid datastream or DFHWBBMS detected invalid forms data while processing a basic mapping support (BMS) request.

System action: The transaction is abnormally terminated with a CICS transaction dump. If the ABEND was issued from DFHTPR or DFHTPP then register 7 indicates the location at which the ABEND was detected.

User response: If DFHTPR or DFHTPP issued the ABEND then examine the transaction dump for bad data in the TIOA. If the origin of the bad data is an application program, correct the program. If DFHWBBMS issued the ABEND then check the validity of the incoming forms data in the CICS trace.

Module: DFHTPP, DFHTPR, DFHWBBMS

ABMF

Explanation: The value specified for the length option of the basic mapping support (BMS) send map is greater than the length of the 'from' area.

System action: The transaction is abnormally terminated with a CICS transaction dump.

User response: Redefine the value for the length option.

Module: DFHPBP

ABMG

Explanation: The user has requested a basic mapping support (BMS) service that was not specified at system generation, or at initialization.

System action: The transaction is abnormally terminated with a CICS transaction dump.

User response: Correlate services requested against options specified in the system generation of BMS.

Follow this procedure

1. Scan the trace table for the transaction ID that issued the abend. If this is CSPQ (page cleanup), module DFHTPQ abnormally terminated because a message purge delay of zero has been specified and CSPQ has been entered via a terminal. The message purge delay is specified in the PRGDLAY of the DFHSIT macro, and its value can be found in SITPRGD.
2. Scan the trace table for the last BMS request (code 'FA'). Use the option bytes at the start of the failing module to see if the requested functions have been generated. For example, paging may have been requested, but standard or minimum BMS was specified in the SIT.
3. If the BMS request is compatible with the BMS options in the CICS system generation, some incompatible suffixing amongst BMS modules must have occurred. This can happen if the DFHSIT macro specified individual suffixes for the BMS modules.

The following modules differ between standard and full-function BMS

DFHMCP
DFHRLR
DFHPBP
DFHTPP

Module: DFHMCP, DFHTPQ

ABMI

Explanation: The map specified for a BMS input mapping request was not an input map.

System action: The transaction is abnormally terminated with a CICS transaction dump.

User response: Either define another input map or redefine the existing map.

Module: DFHMCP, DFHMCX, DFHMCY

ABML

Explanation: The terminal control locate routine received invalid data from DFHRLR and returns with an error return code. DFHRLR is attempting to scan the TCT for a BMS ROUTE request with LIST=ALL or operator class or operator ID specified in the route list. The terminal control table may have been corrupted.

System action: The transaction is abnormally terminated with a CICS transaction dump.

User response: You need further assistance from IBM to resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

The terminal control table has probably been corrupted during execution. Attempt to scan through the TCT in a dump. (Because the system dump uses the same technique for printing all TCTTEs, the system dump fails at the same point.)

Determine which entry is incorrect. It may be that the TCTTE has been overwritten by user data that is recognizable in the dump.

Check the application program for references to the TCTTE pointer. Check for user data that may be addressed from the same pointer.

In an assembler program, there may be multiple equates for the TCTTE base register.

It may be that the TCT is being overwritten by some earlier transaction. If this is so, it is probably one associated with the terminal whose TCTTE is overwritten.

Problem determination: Register 11 points to the current TCTTE in the search.

The TCT prefix (DFHTCTFX) can be located from CSATCTBA.

The first terminal entry (TCTTE) in the TCT is addressed by TCTVTEBA.

TCTTETEL is the halfword offset from current TCTTE to the next.

Analysis: The current TCTTE address is either not on a full-word boundary or is not within the limits of the TCT, or the address of the next TCTTE, obtained by adding TCTTETEL to the current address, is invalid. This check is made by locate code (DFHZLOC) in DFHZCX.

```
Register    Label    Description
R11=@TCTTE  RLRLOCN  Issue DFHTC CTYPE=LOCATE
```

Module: DFHRLR for full-function BMS

ABMM

Explanation: An invalid map was specified.

System action: The transaction is abnormally terminated with a CICS transaction dump.

User response: Use the supplied dump to diagnose the problem. Register 6 contains the address of the BMS instruction being executed when the error was recognized.

Module: DFHPBP

ABMO

Explanation: The map specified for a BMS output mapping request was not an output map.

System action: The transaction is abnormally terminated with a CICS transaction dump.

User response: Either define another output map or redefine the existing map.

Module: DFHMCP, DFHMCX, DFHMCY

ABMQ

Explanation: The query transaction (CQRY) has been initiated and either the task is not terminal-oriented, or the associated terminal is not defined to CICS as a 3270 or SCSPRINT device. This abend will occur if CQRY is entered at a console, even when the console is a 3270 device, since the console has the appearance to CICS of a keyboard/printer device. The CQRY transaction does not have an operator interface, and under normal conditions there is no need for an operator to invoke CQRY or for a user transaction to START the CQRY transaction. CQRY is run automatically by CICS when a 3270 or SCSPRINT device connects. In the transaction dump, register 8 contains the address of the TCTTE for the associated terminal. If register 8 contains zero, this indicates that the task is not terminal-oriented.

System action: The task is abnormally terminated with a CICS dump.

User response: Ensure that the terminal associated with CQRY is of the 3270 or SCSPRINT family of devices.

Module: DFHQRY

ABMR

Explanation: The Page Retrieval transaction (CSPG) has been initiated but the task is not terminal-oriented.

System action: The task is abnormally terminated with a CICS dump.

User response: Ensure that a terminal is associated with the CSPG transaction.

Module: DFHTPR

ABMT

Explanation: A BMS request has been issued for a terminal type which does not support the level of BMS required by the request. This might be a non-3270 type terminal for an input or output request, or a non-bridge facility for a locate map request. Locate map requests are only issued internally by CICS 3270 bridge related code.

This abend might also be issued if the level of BMS required by the request is not supported by the CICS region.

System action: The task is abnormally ended with a CICS transaction dump.

User response: Ensure that the terminal and the CICS region supports the BMS request.

Module: DFHMCP, DFHMCX

ABMU

Explanation: The application program supplied an address that is not within region boundaries. The low-order 3 bytes of general register 1 in the transaction dump contain the erroneous address. The high-order byte of register 1 indicates the address type as follows

```
X'01' - Title address (TCAMSTA)
X'02' - Alternate I/O area address (TCAMSIOA)
X'03' - Map address (TCABMSMA)
X'04' - Header address (TCAMSHDR)
X'05' - Route list address (TCAMSRLA)
X'06' - Trailer address (TCAMSTRL)
X'07' - Map set address (TCAMSMSA)
X'08' - TIOA address (TCTTEDA)
```

System action: The transaction is abnormally terminated with a CICS transaction dump.

User response: Correct the application program that is supplying the erroneous address.

Module: DFHMCP, DFHEMS

ABMV

Explanation: DFHRLR has detected an invalid route list entry.

System action: The transaction is abnormally terminated with a CICS transaction dump.

User response: Check that the route list is correctly built with reserved field in the entry containing blank and a stopper of halfword X'FFFF' to terminate the list.

Module: DFHRLR

ABMX

Explanation: A text string passed to BMS contained a set attribute order that was invalid for one of the following reasons

1. The set attribute sequence was less than three characters.
2. The attribute type was invalid.

System action: The task is abnormally terminated with a CICS transaction dump.

User response: Correct the application program.

Module: DFHPBP

ABMY

Explanation: BMS is building a TTP (Terminal Type Parameter) control block but the pagesize selected for a terminal by BMS is zero because either the default or alternate screensize has been defined as zero.

In the transaction dump, significant general purpose register contents are as follows

1. Register 6 points to the BMS extension of the TCTTE
2. Register 10 points to the TTP (Terminal Type Parameter) control block
3. Register 11 points to the TCTTE

System action: The task is abnormally terminated with a CICS transaction dump.

User response: Check the TERMINAL and TERMTYPE definitions which determined the attributes of the offending TCTTE.

Module: DFHRLR

ABMZ

Explanation: The address of the terminal I/O area (TIOA) in TCTTEDA was found to be zero.

When using BMS fast path as a result of an EXEC CICS RECEIVE MAP, DFHEMS always initializes TCTTEDA with the address of the TIOA. If TCTTEDA is subsequently found to be zero by DFHMCX, an overwrite must have occurred.

System action: The transaction is abnormally terminated with a CICS transaction dump.

User response: Investigate why TCTTEDA is zero.

Scan the trace table for the last BMS request (code FA) for the failing task and try to determine which user

programs have been given control since that BMS request.

Module: DFHMCP, DFHMCX, DFHMCY

ABNA

Explanation: No route list was supplied with a route request received from the :i1.DFHTPS abend codes remote system.

System action: The task is abnormally terminated with a CICS transaction dump.

User response: You need further assistance from IBM to resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHTPS

ABNB

Explanation: Either the principal facility of the task is not a TCTTE of the correct type, or the task has no principal facility.

System action: The task is abnormally terminated with a CICS transaction dump.

User response: Ensure that DFHTPS has not been specified as the initial program of a transaction other than CSPS. Check that the operator did not enter CSPS from the terminal.

Module: DFHTPS

ABNC

Explanation: An attempt to access a temporary storage queue failed.

System action: The task is abnormally terminated with a CICS transaction dump.

User response: Ensure that temporary storage is correctly generated.

Module: DFHTPS

ABNE

Explanation: An error response was received from an invocation of a BMS TYPE=ROUTE or TYPE=STORE request.

System action: The task is abnormally terminated with a CICS transaction dump.

User response: Check that BMS was correctly generated.

Module: DFHTPS

ABNF

Explanation: The transaction was not in send mode when it sent data to the remote system.

System action: The task is abnormally terminated with a CICS transaction dump.

User response: You need further assistance from IBM to resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHTPS

ABNG

Explanation: An attach request was received from the remote system without any data indicating the reason for the request.

System action: The task is abnormally terminated with a CICS transaction dump.

User response: You need further assistance from IBM to resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHTPS

ABNH

Explanation: An attempt to ship data to the remote system failed.

System action: The task is abnormally terminated with a CICS transaction dump.

User response: You need further assistance from IBM to resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHTPS

ABNI

Explanation: CICS could not find a profile for an LU6.2 transaction routing request.

System action: CICS terminates the task abnormally.

User response: Either you have specified an incorrect name in the PROFILE parameter of an EXEC CICS ALLOCATE command, or you have not installed the profile. Correct the error before resubmitting the transaction.

Module: DFHTPS

ABNJ

Explanation: The task was purged before a GETMAIN request to the storage manager (SM) domain was able to complete successfully. The task that first detected the purged condition provides an exception trace.

System action: The task is abnormally terminated with a CICS transaction dump.

User response: Investigate the reason why the task was purged. It was purged either by the master terminal operator or as a result of a deadlock timeout.

Module: DFHTPS

ABNK

Explanation: An error (INVALID, DISASTER or unexpected EXCEPTION response) has occurred on a call to the storage manager (SM) domain. The domain that detected the original error provides an exception trace, a console message and, possibly, a system dump (depending on the options specified in the dump table).

System action: The task is abnormally terminated with a CICS transaction dump.

User response: See the related message produced by the domain that detected the original error.

Module: DFHTPS

ABR3

Explanation: An unsupported BMS request was received by the bridge exit.

System action: The task is abnormally terminated with a CICS transaction dump.

User response: The bridge only supports minimum function BMS and SEND TEXT. This transaction cannot be used in a bridge environment.

Module: DFHEMS

ABR4

Explanation: The link DFHL3270 command did not specify a commarea.

System action: The task is abnormally terminated with a CICS transaction dump.

User response: The link DFHL3270 command must specify a commarea to contain the BRIH and any message vectors.

Module: DFHBRMR

ABR5

Explanation: The commarea specified in the link DFHL3270 command is shorter than the BRIH.

System action: The task is abnormally terminated with a CICS transaction dump.

User response: The link DFHL3270 command must specify a commarea to contain the BRIH and any message vectors.

Module: DFHBRMR

ABR6

Explanation: The commarea specified in the link DFHL3270 command does not contain a valid BRIH.

System action: The task is abnormally terminated with a CICS transaction dump.

User response: The link DFHL3270 command must specify a commarea which must contain a valid BRIH.

Module: DFHBRMR

ABRC

Explanation: The bridge exit is not defined and could not be autoinstalled.

System action: The task is abnormally terminated with a CICS transaction dump. The user transaction will not be started.

User response: Either define the program using RDO or change the program autoinstall exit to allow it to be autoinstalled.

Module: DFHBRMS, DFHBRTC

ABRD

Explanation: The bridge exit is disabled.

System action: The task is abnormally terminated with a CICS transaction dump. The user transaction will not be started.

User response: Identify why the bridge exit is disabled. Enable the bridge exit and retry the action.

Module: DFHBRMS, DFHBRTC

ABRE

Explanation: The bridge exit could not be loaded.

System action: The task is abnormally terminated with a CICS transaction dump. The user transaction will not be started.

User response: Investigate why it cannot be loaded. It may not have been defined in the DFHRPL library.

Module: DFHBRMS, DFHBRTC

ABRF

Explanation: The bridge exit is defined as remote.

System action: The task is abnormally terminated with a CICS transaction dump. The user transaction will not be started.

User response: Define the bridge exit as a local program.

Module: DFHBRMS, DFHBRTC

ABRG

Explanation: An invalid bridge facility token was specified

System action: The task is abnormally terminated with a CICS transaction dump. The user transaction will not be started.

User response: This error was probably caused by the incorrect data being sent to the bridge exit from the client application.

Check the data set by tracing the data sent from the client application.

Ensure that the bridge facility token in the data transmitted by the application is correct.

Module: DFHBRXM

ABRH

Explanation: The bridge facility token specified is not known to CICS.

System action: The task is abnormally terminated with a CICS transaction dump. The user transaction will not be started.

User response: The most likely error is that the client application specified too small a keep time for the bridge facility. Before the client reused the bridge facility token, CICS had already discarded it. Check the bridge facility keep time in the outbound messages. CICS will use the keep time value specified in the last message used by a transaction. Alternatively use the trace or CEDX to look at the keep time in the BRXA passed back on the terminate call to the bridge exit.

Another possible error is that the client application passed a request to a CICS system other than that on which the original request was sent. Bridge facilities are only valid on a single CICS system.

Module: DFHBRXM

ABRI

Explanation: There are no free bridge facility tokens available. This is probably due to excessive keep time values being specified on the bridge exit termination call.

System action: The task is abnormally terminated with a CICS transaction dump. The user transaction will not be started.

User response: Review the keep time values used by the client applications. If some client applications are returning excessive values, modify the bridge exit to specify a limit to the values.

Module: DFHBRXM

ABRJ

Explanation: An invalid FACILITYLIKE value was specified.

The FACILITYLIKE value can be specified on the bridge exit initialization call. If the default value (blanks) is returned, the value in the user transaction profile definition is used. If no FACILITYLIKE value is specified in the profile definition, a value of CBRF is used.

The name must be that of an installed z/OS Communications Server 3270 terminal.

System action: The task is abnormally terminated with a CICS transaction dump. The user transaction will not be started.

User response: Define the terminal specified by FACILITYLIKE, change the value on the profile definition, change the value supplied by the client application, or install a terminal definition for CBRF

Module: DFHBRXM

ABRK

Explanation: The user ID check failed following the call to run the Link3270 bridge request, because it does not match the user ID that created the bridge facility that is being used to service the request.

System action: The task is abnormally terminated with a CICS transaction dump. The user transaction will not be started.

User response: A Link3270 bridge facility must run under the control of a single user ID for the lifetime of its use. Ensure that all of the programs that use Link3270 sessions run under the same user ID.

Module: DFHBRXM

ABRN

Explanation: The bridge exit returned a value in BRXA_RESP that is not valid for the command for which it was invoked.

System action: The transaction is backed out.

User response: Change the bridge exit to only return valid response settings.

Module: DFHBRIC, DFHBRMS, DFHBRSP, DFHBRTC

ABRP

Explanation: The bridge client is no longer available.

System action: The task is abnormally terminated with a CICS transaction dump.

User response: Determine why the bridge client is no longer available. It might have been purged.

Module: DFHBRME

ABRQ

Explanation: The bridge exit issued an abend.

System action: The transaction is backed out.

User response: Identify why the bridge exit abended.

Module: DFHBRMS, DFHBRTC

ABRR

Explanation: The user transaction's profile could not be found.

System action: The task is abnormally terminated with a CICS transaction dump. The user transaction is not started.

User response: Check that the profile name in the user transaction definition is correct, and that this profile has been defined.

Module: DFHBRXM

ABRX

Explanation: The bridge facility was invalid when a transaction started. This can occur when MAXTASK is reset to a low value on a busy system. The bridge facility can time out and be deleted before the user transaction is started.

System action: The user transaction will abend during initialisation.

User response: None.

Module: DFHBRXM

ABRY

Explanation: CICS returned an unexpected error running the bridge exit. This is a CICS internal error.

System action: The task is abnormally terminated with a CICS transaction dump.

User response: You need further assistance from IBM to resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHBRMS, DFHBRTC

ABRZ

Explanation: The bridge exit returned invalid data in the BRXA.

System action: The task is abnormally terminated with a CICS transaction dump.

User response: If a user supplied bridge exit was used, review the format of the data returned by the exit. If a CICS supplied exit was used, this is a CICS error. You need further assistance from IBM to resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHBRIC, DFHBRMS, DFHBRSP, DFHBRTC, DFHXMBR

ABSA

Explanation: A message passed to DFHBSMSG is too long. This is a CICS internal error.

System action: CICS terminates the task abnormally with a dump.

User response: You need further assistance from IBM to resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHTBS

ABX1

Explanation: The bridge exit or formatter was called with an invalid BRXA-HEADER. This indicates a storage overwrite.

System action: An exception trace is made of the data in error. The task is abnormally terminated with a CICS transaction dump.

As CICS also does a check of the BRXA on return from the call to the exit, there will probably be a subsequent ABRZ abend.

User response: Investigate the cause of the storage error, and retry.

Module: DFH0CBAE,DFH0CBRE,DFH0CBRF

ABX2

Explanation: The bridge exit or formatter was called with an invalid BRXA-TRANSACTION-AREA. This indicates a storage overwrite.

System action: An exception trace is made of the data in error. The task is abnormally terminated with a CICS transaction dump.

As CICS also does a check of the BRXA on return from the call to the exit, there will probably be a subsequent ABRZ abend.

User response: Investigate the cause of the storage error, and retry.

Module: DFH0CBAE,DFH0CBRE,DFH0CBRF

ABX3

Explanation: The bridge exit or formatter was called with an invalid BRXA-COMMAND-AREA. This indicates a storage overwrite.

System action: An exception trace is made of the data

in error. The task is abnormally terminated with a CICS transaction dump.

As CICS also does a check of the BRXA on return from the call to the exit, there will probably be a subsequent ABRZ abend.

User response: Investigate the cause of the storage error, and retry.

Module: DFH0CBAE,DFH0CBRE,DFH0CBRF

ABX5

Explanation: The bridge exit or formatter was called without a user-area. This probably indicates an error in the bridge exit.

System action: An exception trace is made of the data in error. The task is abnormally terminated with a CICS transaction dump.

User response: Investigate the cause of the storage error, and retry.

Module: DFH0CBAE,DFH0CBRE,DFH0CBRF

ABX6

Explanation: The bridge exit or formatter was called with an invalid user-area. This indicates a storage overwrite or an error in the bridge exit.

System action: An exception trace is made of the data in error. The task is abnormally terminated with a CICS transaction dump.

User response: Investigate the cause of the storage error, and retry.

Module: DFH0CBAE,DFH0CBRE,DFH0CBRF

ABX7

Explanation: A TC command passed to the formatter, exceeded the maximum message size.

System action: An exception trace is made of the first 4K of data in error. The task is abnormally terminated with a CICS transaction dump.

User response: Check that the user transaction is passing the correct data. If it is, it will be necessary to change the size of the buffer. This is in field block-length in the sample exit. Recompile and reload the exit and retry.

Module: DFH0CBRF

ABX8

Explanation: A next BMS BRMQ vector in the input message passed to the formatter does not contain the mapset requested to answer a RECEIVE MAP request.

System action: The task is abnormally terminated with a CICS transaction dump.

User response: This may just indicate that the transaction has gone down an error path which should result in a transaction backout. If not, the input message should have a BRMQ vector for this mapset. Change the client application, recompile and retry.

Module: DFH0CBRF

ABX9

Explanation: A next BMS BRMQ vector in the input message passed to the formatter does not contain the mapname requested to answer a RECEIVE MAP request.

System action: The task is abnormally terminated with a CICS transaction dump.

User response: This may just indicate that the transaction has gone down an error path which should result in a transaction backout. If not, the input message should have a BRMQ vector for this mapname. Change the client application, recompile and retry.

Module: DFH0CBRF

ABXA

Explanation: A next BRMQ vector in the input message passed to the formatter is the wrong type of a RECEIVE vector. RECEIVE and RECEIVE MAP have separate vectors.

System action: The task is abnormally terminated with a CICS transaction dump.

User response: This may just indicate that the transaction has gone down an error path which should result in a transaction backout. If not, the input message should have a BRMQ vector for this command. Change the client application, recompile and retry.

Module: DFH0CBRF

ABXB

Explanation: The BRIH requested that outbound BMS vector must include the ADS descriptor. The map did not contain an ADS descriptor. This means that the mapset was not assembled with CICS TS 1.2 or later.

System action: The task is abnormally terminated with a CICS transaction dump.

User response: Either reassemble the mapset using the current level of BMS macros, or set BRIH-ADSDESCRIPTOR to BRIHADSD-NO (the default value is BRIHADSD-YES). Note that BRIHADSD-YES is required when codepage conversion of the Link3270 message is required (e.g. using ECI). If you need to reassemble the mapset and don't have the mapset source, the utility DFHBMSUP can be used to recreate it.

Module: DFHBRMF

ABXC

Explanation: An error occurred when a SYNCPOINT request was issued by the bridge exit.

System action: The task is abnormally terminated with a CICS transaction dump.

User response: Check for other CICS messages and exception trace entries to investigate the cause of the SYNCPOINT error.

Module: DFH0CBRE

ABXD

Explanation: An error occurred when a SYNCPOINT ROLLBACK request was issued by the bridge exit.

System action: The task is abnormally terminated with a CICS transaction dump.

User response: Check for other CICS messages and exception trace entries to investigate the cause of the SYNCPOINT ROLLBACK error.

Module: DFH0CBRE

ABXE

Explanation: The bridge exit was expecting data to be passed on the BRDATA parameter of the START command. No data was found.

System action: The task is abnormally terminated with a CICS transaction dump.

User response: Correct the transaction which issued the START. Recompile, reload and retry.

Module: DFH0CBAE,DFH0CBRE

ABXF

Explanation: An error was detected by the bridge exit when it tried to input the next message.

System action: An exception trace is made of any error information. The task is abnormally terminated with a CICS transaction dump.

User response: Check for other CICS messages and exception trace entries to investigate the cause of the input error.

Module: DFH0CBAE,DFH0CBRE,DFH0CBAI

ABXG

Explanation: An error was detected by the bridge exit when it tried to output the next message.

System action: An exception trace is made of any error information. The task is abnormally terminated with a CICS transaction dump.

User response: Check for other CICS messages and exception trace entries to investigate the cause of the output error.

Module: DFH0CBAE,DFH0CBRE

ABXH

Explanation: The user transaction issued a request which requires more data (such as a RECEIVE request). No data was available in the message, and mqcih-conversationaltask was set to mqcct-no which specifies that the transaction is non conversational.

System action: The task is abnormally terminated with a CICS transaction dump.

User response: This may be correct behaviour as defined by the client application. If it is not, the client application should either supply additional data, or be redesigned to allow the transaction to be conversational.

Module: DFH0CBRF

ABXI

Explanation: A message received by the bridge exit, exceeded the maximum message size.

System action: An exception trace is made of the first 4K of data in error. The task is abnormally terminated with a CICS transaction dump.

User response: Check that the client application is passing the correct data. If it is, it will be necessary to change the size of the buffer. This is in field block-length in the sample exit. Recompile and reload the exit and retry.

Module: DFH0CBAE,DFH0CBRE

ABXJ

Explanation: The bridge exit detected an error in the MQCIH header passed by the client application.

System action: An exception trace is written containing the MQCIH header. The task is abnormally terminated with a CICS transaction dump.

User response: The client application has either not set the MQCIH header, or is using a version of the header which is incompatible with the bridge exit. Correct the client application. Recompile, reload and retry.

Module: DFH0CBAE,DFH0CBRE

ABXK

Explanation: The bridge exit detected an error in the data passed on the BRDATA parameter of the START command.

System action: An exception trace is made of the data

in error. The task is abnormally terminated with a CICS transaction dump.

User response: Correct the transaction which issued the START. Recompile, reload and retry.

Module: DFH0CBAE,DFH0CBRE

ABXM

Explanation: The bridge exit or formatter was called with a function or command which it doesn't support. This either indicates a storage overwrite, or that the bridge exit is not designed for this command.

System action: An exception trace is made of the data in error. The task is abnormally terminated with a CICS transaction dump.

User response: Check the BRXA data in the trace to see if there has been a storage overwrite, or whether the exit supports this command.

Module: DFH0CBAE,DFH0CBRE,DFH0CBRF

ABXN

Explanation: The formatter detected that the input message was truncated.

System action: An exception trace is made of the first 4K of the message. The task is abnormally terminated with a CICS transaction dump.

User response: Check that the transport mechanism allows for messages of this length. If this is correct, it indicates that the client application is issuing an incorrect message. Trace the outbound message on the client application. Recompile, reload and retry.

Module: DFH0CBRF

ABXO

Explanation: The formatter detected an error in a BRMQ vector passed by the client application.

System action: The field MQCIH-ERROROFFSET is set to indicate the position of the error in the message An exception trace is made of the MQCIH and BRMQ vector. The task is abnormally terminated with a CICS transaction dump.

User response: Correct the client application. Recompile, reload and retry.

Module: DFH0CBRF

ABXP

Explanation: The formatter detected an error in a BRMQ vector header passed by the client application.

System action: The field MQCIH-ERROROFFSET is set to indicate the position of the error in the message An exception trace is made of the MQCIH and BRMQ vector. The task is abnormally terminated with a CICS transaction dump.

User response: Correct the client application. Recompile, reload and retry.

Module: DFH0CBRF

ABXQ

Explanation: The formatter could not find an ADSD vector as part of the BRMQ-RM vector when MQCIH-ADSDESCRIPTOR specified MQCADSD-MSGFORMAT.

System action: An exception trace is made of the request. The task is abnormally terminated with a CICS transaction dump.

User response: Correct the client application. Recompile, reload and retry.

Module: DFH0CBRF

ABXS

Explanation: An error was detected by the bridge exit when it tried to open the queue for the input or output message.

System action: An exception trace is made of any error information. The task is abnormally terminated with a CICS transaction dump.

User response: Check for other CICS messages and exception trace entries to investigate the cause of the open error.

Module: DFH0CBRE

ABXU

Explanation: The conversion between client code page and server code page is not supported by CICS/390; for example conversion has been requested between Japanese code page 932 and Latin-1 code page 500.

System action: The transaction is abnormally terminated with a transaction dump.

User response: Ensure that the Client codepage, both default and overrides are in the same group as the Server codepage. for example client code page 852 from Latin-2 group, is only supported to server code page 870.

Module: DFHBRMF

ABXV

Explanation: The client code page which has been requested by the client is not one which CICS can support.

System action: The transaction is abnormally terminated with a transaction dump.

User response: Ensure that the Client codepage is valid.

Module: DFHBRMF

ACxx abend codes

ACAA

Explanation: This explanation applies to the two transaction abend codes, ACAA and ACAD. CICS cannot find a match for a function code in the language definition table because the parameterized resource definition contains an unrecognized resource type code. The abend code issued depends on the DFHCAP operation that was invoked before the error occurred

Abend	DFHCAP operation
ACAA	ANALYZE
ACAD	DEFAULTS

The cause of the abend is either
- The language definition table, DFHEITCU, in the library is invalid for the release of CICS you are running, **or**
- A CICS logic error has occurred.

System action:
- In a CICS environment, the CEDA transaction is abnormally terminated with a CICS transaction dump.
- In a batch environment, processing is abnormally terminated with an operating system dump.

User response: Ensure that the DFHEITCU module is in the library and is valid for this release of CICS.

If a valid version of DFHEITCU is already in the library, a CICS logic error has occurred. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHCAP

ACAD

Explanation: See **ACAA**.

Module: DFHCAP

ACAI

Explanation: An internal error has occurred when module DFHCAP was invoked. There was an invalid function code for a domain call to DFHCAP.

System action:
- In a CICS environment, the CEDA transaction is abnormally terminated with a CICS transaction dump.
- In a batch environment, processing is abnormally terminated with an operating system dump.

User response: You need further assistance from IBM to resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHCAP

ACAJ

Explanation: An internal error has occurred when module DFHCAP was invoked while processing an EXEC CICS CREATE command. The preallocated dynamic storage area was too small.

System action: The transaction executing the EXEC CICS CREATE command is abnormally terminated with a CICS transaction dump.

User response: You need further assistance from IBM to resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHCAP

ACAM

Explanation: An internal error has occurred when module DFHECBAM was invoked while processing a CBAM transaction.

System action: CBAM is abnormally terminated with a CICS transaction dump.

User response: You need further assistance from IBM to resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHECBAM

ACC1

Explanation: Abend codes with 'ACC' as the first three characters are issued by the C/370 compiler running under CICS. These are documented in the *C/370 User's Guide*.

ACC2

Explanation: Abend codes with 'ACC' as the first three characters are issued by the C/370 compiler running under CICS. These are documented in the *C/370 User's Guide*.

ACC3

Explanation: Abend codes with 'ACC' as the first three characters are issued by the C/370 compiler running under CICS. These are documented in the *C/370 User's Guide*.

ACC4

Explanation: Abend codes with 'ACC' as the first three characters are issued by the C/370 compiler running under CICS. These are documented in the *C/370 User's Guide*.

ACC5

Explanation: Abend codes with 'ACC' as the first three characters are issued by the C/370 compiler running under CICS. These are documented in the *C/370 User's Guide*.

ACC6

Explanation: Abend codes with 'ACC' as the first three characters are issued by the C/370 compiler running under CICS. These are documented in the *C/370 User's Guide*.

ACC7

Explanation: Abend codes with 'ACC' as the first three characters are issued by the C/370 compiler running under CICS. These are documented in the *C/370 User's Guide*.

ACC8

Explanation: Abend codes with 'ACC' as the first three characters are issued by the C/370 compiler running under CICS. These are documented in the *C/370 User's Guide*.

ACC9

Explanation: Abend codes with 'ACC' as the first three characters are issued by the C/370 compiler running under CICS. These are documented in the *C/370 User's Guide*.

ACCA

Explanation: Abend codes with 'ACC' as the first three characters are issued by the C/370 compiler running under CICS. These are documented in the *C/370 User's Guide*.

ACCB

Explanation: Abend codes with 'ACC' as the first three characters are issued by the C/370 compiler running under CICS. These are documented in the *C/370 User's Guide*.

ACCC

Explanation: Abend codes with 'ACC' as the first three characters are issued by the C/370 compiler running under CICS. These are documented in the *C/370 User's Guide*.

ACCD

Explanation: Abend codes with 'ACC' as the first three characters are issued by the C/370 compiler running under CICS. These are documented in the *C/370 User's Guide*.

ACCE

Explanation: Abend codes with 'ACC' as the first three characters are issued by the C/370 compiler running under CICS. These are documented in the *C/370 User's Guide*.

ACCF

Explanation: Abend codes with 'ACC' as the first three characters are issued by the C/370 compiler running under CICS. These are documented in the *C/370 User's Guide*.

ACCG

Explanation: Abend codes with 'ACC' as the first three characters are issued by the C/370 compiler running under CICS. These are documented in the *C/370 User's Guide*.

ACCH

Explanation: Abend codes with 'ACC' as the first three characters are issued by the C/370 compiler running under CICS. These are documented in the *C/370 User's Guide*.

ACCI

Explanation: Abend codes with 'ACC' as the first three characters are issued by the C/370 compiler running under CICS. These are documented in the *C/370 User's Guide*.

ACCJ

Explanation: Abend codes with 'ACC' as the first three characters are issued by the C/370 compiler running under CICS. These are documented in the *C/370 User's Guide*.

ACCK

Explanation: Abend codes with 'ACC' as the first three characters are issued by the C/370 compiler running under CICS. These are documented in the *C/370 User's Guide*.

ACCL

Explanation: Abend codes with 'ACC' as the first three characters are issued by the C/370 compiler running under CICS. These are documented in the *C/370 User's Guide*.

ACCM

Explanation: Abend codes with 'ACC' as the first three characters are issued by the C/370 compiler running under CICS. These are documented in the *C/370 User's Guide*.

ACCN

Explanation: Abend codes with 'ACC' as the first three characters are issued by the C/370 compiler running under CICS. These are documented in the *C/370 User's Guide*.

ACCO

Explanation: Abend codes with 'ACC' as the first three characters are issued by the C/370 compiler running under CICS. These are documented in the *C/370 User's Guide*.

ACCP

Explanation: Abend codes with 'ACC' as the first three characters are issued by the C/370 compiler running under CICS. These are documented in the *C/370 User's Guide*.

ACCQ

Explanation: Abend codes with 'ACC' as the first three characters are issued by the C/370 compiler running under CICS. These are documented in the *C/370 User's Guide*.

ACCR

Explanation: Abend codes with 'ACC' as the first three characters are issued by the C/370 compiler running under CICS. These are documented in the *C/370 User's Guide*.

ACCS

Explanation: Abend codes with 'ACC' as the first three characters are issued by the C/370 compiler running under CICS. These are documented in the *C/370 User's Guide*.

ACCT

Explanation: Abend codes with 'ACC' as the first three characters are issued by the C/370 compiler running under CICS. These are documented in the *C/370 User's Guide*.

ACCU

Explanation: Abend codes with 'ACC' as the first three characters are issued by the C/370 compiler running under CICS. These are documented in the *C/370 User's Guide*.

ACCV

Explanation: Abend codes with 'ACC' as the first three characters are issued by the C/370 compiler running under CICS. These are documented in the *C/370 User's Guide*.

ACCW

Explanation: Abend codes with 'ACC' as the first three characters are issued by the C/370 compiler running under CICS. These are documented in the *C/370 User's Guide*.

ACCx

Explanation: Abend codes with 'ACC' as the first three characters are issued by the C/370 compiler running under CICS. These are documented in the *C/370 User's Guide*.

ACCY

Explanation: Abend codes with 'ACC' as the first three characters are issued by the C/370 compiler running under CICS. These are documented in the *C/370 User's Guide*.

ACCZ

Explanation: Abend codes with 'ACC' as the first three characters are issued by the C/370 compiler running under CICS. These are documented in the *C/370 User's Guide*.

ACFA

Explanation: During the loading of a Coupling Facility Data Table by the CFCL transaction, an abend was detected or a domain call returned a response (such as DISASTER) after which normal processing could not continue.

System action: A message is issued (one of DFHFC7100, DFHFC7101, DFHFC7103 or DFHFC7104). Loading of the data table is terminated and CFCL abends.

User response: If this abend is produced as a result of an abend during loading, message DFHFC7103 is issued. If it is a result of a domain call failure, depending on which domain the failure was returned by, one of the messages DFHFC7100, DFHFC7101 or DFHFC7104 is issued. Refer to the description of the message for further information and guidance.

Module: DFHFCDL

ACFB

Explanation: A transaction has issued a request to a coupling facility data table for which it holds an active lock, but after the lock was acquired, the coupling facility data table server for the pool in which this coupling facility data table resides failed and was restarted. This request is of a type which cannot continue against a new instance of the server, because it is reliant on the lock which was acquired before the server failed.

System action: The requesting transaction abends with a transaction dump.

CICS continues normally.

User response: Retry the failed transaction.

Module: DFHEIFC

ACFC

Explanation: A transaction has issued a request to a coupling facility data table which was last accessed using a previous instance of the coupling facility data table server (that is, the server for the pool in which this coupling facility data table resides has failed and been restarted one or more times since the last access). We therefore need to reopen the access between this CICS file and the coupling facility data table, but the attempt to reopen access has failed.

System action: The requesting transaction abends with a transaction dump.

CICS continues normally.

User response: Retry the failed transaction. If the error continues to occur, issue an explicit close request for the file, followed by an explicit open request.

Module: DFHEIFC

ACFD

Explanation: During the loading of a Coupling Facility Data Table by the CFCL transaction, a call to the CICS Transaction Manager has returned a response (such as DISASTER) after which normal processing could not continue.

System action: Message DFHFC7121 is issued. Loading of the data table is terminated and CFCL abends.

User response: Refer to the description of the message for further information and guidance.

Module: DFHFCDL

ACFE

Explanation: An attempt was made to attach a transaction specifying DFHFCDL as the program to be given control, but the transaction was not internally attached by CICS.

DFHFCDL is for use by CICS system transaction CFCL. This loads a Coupling Facility Data Table.

System action: The transaction is abnormally terminated. CICS processing continues.

User response: Establish why an attempt was made to attach CFCL illegally, or why a transaction definition specified DFHFCDL as the program to be given control.

Module: DFHFCDL

ACHA

Explanation: The remote server transaction, CEHS, is not at a compatible level to operate with the CICS/CMS system. This usually indicates that the service levels of CICS/CMS and the remote server are different.

System action: CICS terminates the remote server transaction abnormally with a dump.

User response: You need further assistance from IBM to resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Problem determination: To diagnose a problem with the remote server, it is generally helpful to obtain a trace of the remote server's activity up to the point of failure.

A remote server trace is obtained by invoking the remote server with the TRACE option, (type CEHS TRACE). The remote server operates as normal but causes entries to be written to a trace log in temporary storage. Note that main storage, not auxiliary, is used for this queue hence large amounts of memory can be used up if this trace is left on for long.

The trace is found in a queue whose name is 'CEHS*xxxx*', where '*xxxx*' is the four-character terminal

identifier. The queue can be browsed in text form or in hexadecimal form using CEBR. To find the terminal identifier, invoke CEBR on the terminal that has run CEHS, without giving a queue name. The queue name will default to 'CEBR*xxxx*', where '*xxxx*' is the terminal identifier.

Note: CEBR requires the queue name to be in UPPER CASE.

For a description of the remote server and its trace entries and abend codes, see the *CICS/VS Remote Server Diagnosis Manual* (LC33-0438).

Module: DFHCHS

ACHB

Explanation: The remote server has received a data frame from CICS/CMS that is out of sequence. A frame may have been lost in transmission.

System action: CICS terminates the remote server abnormally with a dump.

User response: Reestablish the connection between CICS/CMS and the remote CICS system and try to use the remote server again. For further information, see the 'Problem Determination' section for abend code ACHA.

If the problem persists, you will need assistance from IBM to resolve the problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHCHS

ACHC

Explanation: The remote server did not receive the expected acknowledgement type data frame from CICS/CMS.

System action: CICS terminates the remote server abnormally with a dump.

User response: Reestablish the connection between CICS/CMS and the remote CICS system and try to use the remote server again. For further information, see the 'Problem Determination' section for abend code ACHA.

If the problem persists, you will need assistance from IBM to resolve the problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHCHS

ACHD

Explanation: The remote server did not receive the expected response type data frame from CICS/CMS.

System action: CICS terminates the remote server abnormally with a dump.

User response: Reestablish the connection between CICS/CMS and the remote CICS system and try to use the remote server again. For further information, see the 'Problem Determination' section for abend code ACHA.

If the problem persists, you will need assistance from IBM to resolve the problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHCHS

ACHE

Explanation: The remote server received an unexpected data frame from CICS/CMS. This indicates a logic error in the remote server.

System action: CICS terminates the remote server abnormally with a dump.

User response: Reestablish the connection between CICS/CMS and the remote CICS system and try to use the remote server again. For further information, see the 'Problem Determination' section for abend code ACHA.

If the problem persists, you will need assistance from IBM to resolve the problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHCHS

ACHF

Explanation: The remote server attempted to send one of a series of data frames to CICS/CMS when, at this time, only a single frame is allowed. This indicates a logic error in the remote server.

System action: CICS terminates the remote server abnormally with a dump.

User response: Reestablish the connection between CICS/CMS and the remote CICS system and try to use the remote server again. For further information, see the 'Problem Determination' section for abend code ACHA.

If the problem persists, you will need assistance from IBM to resolve the problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHCHS

ACHG

Explanation: The remote server attempted to send data to CICS/CMS. However, it was not set to the correct mode to do so. This indicates a logic error in the remote server.

System action: CICS terminates the remote server abnormally with a dump.

User response: Reestablish the connection between CICS/CMS and the remote CICS system and try to use the remote server again. For further information, see the 'Problem Determination' section for abend code ACHA.

If the problem persists, you will need assistance from IBM to resolve the problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHCHS

ACHH

Explanation: A TIOA has not been created from the data received by the remote server from CICS/CMS.

System action: CICS terminates the remote server abnormally with a dump.

User response: Reestablish the connection between CICS/CMS and the remote CICS system and try to use the remote server again. For further information, see the 'Problem Determination' section for abend code ACHA.

If the problem persists, you will need assistance from IBM to resolve the problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHCHS

ACHI

Explanation: The remote server has received an unexpected return code from the Transformer 2 program.

System action: CICS terminates the remote server abnormally with a dump.

User response: For further information, see the 'Problem Determination' section for abend code ACHA.

Module: DFHCHS

ACHJ

Explanation: An error has occurred processing a request from CICS/CMS which had the 'No-Reply' option. The remote server cannot, therefore, return the error condition to CICS/CMS.

System action: CICS terminates the remote server abnormally with a dump.

User response: Reestablish the remote server and diagnose the problem by executing the same command from CECI under CICS/CMS without the NOCHECK option. For further information, see the 'Problem Determination' section for abend code ACHA.

Module: DFHCHS

ACHK

Explanation: The transformer program has requested neither EIP nor DLI to execute the request received from CICS/CMS. This indicates a logic error because the request has to be destined for either EIP or DLI.

System action: CICS terminates the remote server abnormally with a dump.

User response: For further information, see the 'Problem Determination' section for abend code ACHA.

Module: DFHCHS

ACHL

Explanation: CICS/CMS has supplied a buffer to the remote server which is not large enough to hold the reply that the remote server has to return.

System action: CICS terminates the remote server abnormally with a dump.

User response: Reestablish the connection between CICS/CMS and the remote CICS system and try to use the remote server again. For further information, see the 'Problem Determination' section for abend code ACHA.

If the problem persists, you will need assistance from IBM to resolve the problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHCHS

ACHM

Explanation: The remote server has tried to receive a response from CICS/CMS which failed repeatedly until the retry limit was exceeded.

System action: CICS terminates the remote server abnormally with a dump.

User response: Reestablish the connection between CICS/CMS and the remote CICS system and try to use the remote server again. For further information, see the 'Problem Determination' section for abend code ACHA.

If the problem persists, you will need assistance from IBM to resolve the problem. See Part 4 of the *CICS*

Problem Determination Guide for guidance on how to proceed.

Module: DFHCHS

ACHN

Explanation: The remote server has tried to receive a request from CICS/CMS which failed repeatedly until the retry limit was exceeded.

System action: CICS terminates the remote server abnormally with a dump.

User response: Reestablish the connection between CICS/CMS and the remote CICS system and try to use the remote server again. For further information, see the 'Problem Determination' section for abend code ACHA.

If the problem persists, you will need assistance from IBM to resolve the problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHCHS

ACHO

Explanation: The remote server has tried to receive a reply from CICS/CMS which failed repeatedly until the retry limit was exceeded.

System action: CICS terminates the remote server abnormally with a dump.

User response: Reestablish the connection between CICS/CMS and the remote CICS system and try to use the remote server again. For further information, see the 'Problem Determination' section for abend code ACHA.

If the problem persists, you will need assistance from IBM to resolve the problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHCHS

ACHP

Explanation: CICS/CMS has made a request to the remote server for which the reply would need more than the maximum storage allowed (32660 bytes). This indicates that a logic error has occurred.

System action: CICS terminates the remote server abnormally with a dump.

User response: For further information, see the 'Problem Determination' section for abend code ACHA.

Module: DFHCHS

ACHR

Explanation: The CICS/CMS remote server transaction (CEHS) has been initiated and either the task is not terminal-oriented, or the associated terminal is a console.

System action: CICS abnormally terminates the remote server with a dump.

User response: Ensure the transaction is initiated with an associated terminal and that the terminal is not defined as a console. For further information, see the 'Problem Determination' section for abend code ACHA.

Module: DFHCHS

ACHS

Explanation: The CICS/OS2 remote server transaction (CEHP) has been initiated and either the task is not terminal-oriented, or the associated terminal is a console.

System action: CICS abnormally terminates the remote server with a dump.

User response: Ensure the transaction is initiated with an associated terminal and that the terminal is not defined as a console. For further information, see the 'Problem Determination' section for abend code ACHA.

Module: DFHCHS

ACL0

Explanation: The new operator failed to allocate storage whilst creating an object. This problem will occur if there is insufficient storage available to the CICS region to satisfy the request.

System action: CICS abnormally terminates the transaction.

User response: This abend may occur if you are in a loop creating objects and not deleting them. Alternatively CICS might be short on storage and you should try resubmitting the transaction.

Module: ICCGLBIC

ACL1

Explanation: The CICS Foundation Classes have thrown an exception which the application programmer failed to catch.

System action: CICS abnormally terminates the transaction.

User response: Check that you have coded your application to catch exceptions. Interrogate the message object contained within the exception object to establish the cause of the exception being thrown.

Another possible cause of this abend is that you are

running a Foundation Classes program on a machine that does not have the C++ runtime installed. Check that your machine has the C++ runtime installed.

Module: ICCGLBIC

ACL2

Explanation: The CICS Foundation Classes invoked the default handleEvent method (defined in class IccResource) in order to handle a CICS condition because the application programmer did not implement his own handleEvent method.

System action: CICS abnormally terminates the transaction.

User response: Implement your own handleEvent method or customize your resource objects so they do not call the handleEvent method for any of the possible CICS conditions.

Module: ICCRESEC

ACL3

Explanation: The CICS Foundation Classes responded to an application programmer's request to abend a CICS task.

System action: CICS abnormally terminates the transaction.

User response: The application programmer requested that the CICS Foundation Classes abend the transaction using the appropriate return enumeration from the handleEvent method (see IccResource class).

Module: ICCRESIC

ACL4

Explanation: The CICS Foundation Classes detected an internal error.

System action: CICS abnormally terminates the transaction.

User response: This abend indicates a CICS Foundation Classes internal problem. Please contact your support organization.

Module: ICCGLIBC

ACL5

Explanation: The CICS Foundation Classes received an error from a CICS storage request (GETMAIN). In response to a new operator request the CICS Foundation Classes issued a CICS GETMAIN request to allocate storage which CICS was unable to satisfy.

System action: CICS abnormally terminates the transaction.

User response: This abend may occur if you are in a loop creating objects and not deleting them. Alternatively CICS might be short on storage and you should try resubmitting the transaction.

Module: ICCBASEC

ACL6

Explanation: The CICS Foundation Classes detected an error while processing a storage release request.

System action: CICS abnormally terminates the transaction.

User response: This abend can occur if you try to delete an object that does not exist (that is, it has already been deleted). It may also indicate a CICS memory management problem, or a storage corruption problem. If the error persists, please contact your support organization.

Module: ICCBASEC

ACL7

Explanation: The CICS Foundation Classes have thrown an exception which the application programmer failed to catch.

System action: CICS abnormally terminates the transaction.

User response: Check that you have coded your application to catch exceptions. Interrogate the message object contained within the exception object to establish the cause of the exception being thrown.

Another possible cause of this abend is that you are running a Foundation Classes program on a machine that does not have the C++ runtime installed. Check that your machine has the C++ runtime installed.

Module: ICCGLBIC

ACL8

Explanation: The CICS Foundation Classes have thrown an exception which the application programmer failed to catch.

System action: CICS abnormally terminates the transaction.

User response: Check that you have coded your application to catch exceptions. Interrogate the message object contained within the exception object to establish the cause of the exception being thrown.

Another possible cause of this abend is that you are running a Foundation Classes program on a machine that does not have the C++ runtime installed. Check that your machine has the C++ runtime installed.

Module: ICCGLBIC

ACL9

Explanation: The CICS Foundation Classes responded to an application programmer's request to abend a CICS task.

System action: CICS abnormally terminates the transaction.

User response: A resource object was customized to cause a transaction abend if a particular CICS condition was raised, and this condition was subsequently raised by CICS.

Module: ICCRESIC

ACLA

Explanation: The CICS Foundation Classes detected an internal error.

System action: CICS abnormally terminates the transaction.

User response: This abend indicates a CICS Foundation Classes internal problem. Please contact your support organization.

Module: ICCGLIBC

ACLB

Explanation: The CICS Foundation Classes detected an internal error.

System action: CICS abnormally terminates the transaction.

User response: This abend indicates a CICS Foundation Classes internal problem. Please contact your support organization.

Module: ICCGLIBC

ACLC

Explanation: The CICS Foundation Classes detected an internal error.

System action: CICS abnormally terminates the transaction.

User response: This abend indicates a CICS Foundation Classes internal problem. Please contact your support organization.

Module: ICCGLIBC

ACLD

Explanation: The CICS Foundation Classes detected an internal error.

System action: CICS abnormally terminates the transaction.

User response: This abend indicates a CICS Foundation Classes internal problem. Please contact your support organization.

Module: ICCGLIBC

ACLE

Explanation: The CICS Foundation Classes detected an internal error.

System action: CICS abnormally terminates the transaction.

User response: This abend indicates a CICS Foundation Classes internal problem. Please contact your support organization.

Module: ICCGLIBC

ACLF

Explanation: The CICS Foundation Classes detected an internal error.

System action: CICS abnormally terminates the transaction.

User response: This abend indicates a CICS Foundation Classes internal problem. Please contact your support organization.

Module: ICCGLIBC

ACLG

Explanation: The CICS Foundation Classes detected an internal error.

System action: CICS abnormally terminates the transaction.

User response: This abend indicates a CICS Foundation Classes internal problem. Please contact your support organization.

Module: ICCGLIBC

ACLH

Explanation: The CICS Foundation Classes detected an error while processing a storage release request.

System action: CICS abnormally terminates the transaction.

User response: This abend can occur if you try to delete an object that does not exist (that is, it has already been deleted). It may also indicate a CICS memory management problem, or a storage corruption problem. If the error persists, please contact your support organization.

Module: ICCBASEC

ACN1

Explanation: The table DFHCNV cannot be loaded. This is probably because a table has not been pregenerated. It could also occur if the table DFHCNV has been linked above 16MB but DFHCCNV has been linked below 16MB.

System action: The transaction is abnormally terminated with a transaction dump.

User response: Check that the DFHCNV module is in the library and is valid for this release of CICS. Check the linkage of DFHCNV and relink it with the correct AMODE if necessary.

Module: DFHCCNV

ACN2

Explanation: The table DFHCNV has been loaded but the first record is in the wrong format. This is probably due to an error during assembly or linkedit, but could also be the result of a storage overwrite.

System action: The transaction is abnormally terminated with a transaction dump.

User response: The table should be reassembled and linked. Check the assemble and linkedit output. Check for any messages issued from CICS indicating that storage overwrites have occurred.

Module: DFHCCNV

ACN3

Explanation: The program DFHUCNV cannot be linked. A user conversion program must be available (even if it only returns).

System action: The transaction is abnormally terminated with a transaction dump.

User response: Check that the DFHUCNV module is in the library and is valid for this release of CICS. Check the linkage of DFHUCNV and relink it with the correct AMODE if necessary.

Module: DFHCCNV

ACN4

Explanation: An unrecognized format of a DFHCNV table has been encountered.

System action: The transaction is abnormally terminated with a transaction dump.

User response: Re-assemble and re-link edit the DFHCNV macro.

Module: DFHCCNV

ACN5

Explanation: An override for the default client code page has been received; however the value is not recognized.

System action: The transaction is abnormally terminated with a transaction dump.

User response: Check that the client system is using one of the client code pages supported by CICS/390.

Module: DFHCCNV

ACN6

Explanation: The client sent data in unicode but the client and server code pages are not the same. Unicode data is only tolerated provided that conversion is not required.

System action: The transaction is abnormally terminated with a transaction dump.

User response: Ensure that the Client codepage and the Server codepage are the same.

Module: DFHCCNV

ACN7

Explanation: An override for the default binary format has been received; however the value is not recognized.

System action: The transaction is abnormally terminated with a transaction dump.

User response: Data formats should be either S/370 or INTEL, anything else is unsupported by CICS/390.

Module: DFHCCNV

ACN8

Explanation: CICS data conversion is processing a FIELD defined as containing GRAPHIC characters (which are only DBCS): that is DFHCNV TYPE=FIELD,DATATYP=GRAPHIC,... However the client code page (defined in the CLINTCP operand), and the server code page (defined in the SRVERCP operand) imply that the FIELD contains only SBCS characters, for example DFHCNV TYPE=ENTRY,CLINTCP=437,SRVERCP=037

System action: The transaction is abnormally terminated with a transaction dump.

User response: Correct the FIELD definition.

Module: DFHCCNV

ACN9

Explanation: The table DFHCNV cannot be loaded. This abend code is issued following a NOTAUTH condition being raised during loading of the DFHCNV table.

System action: The transaction is abnormally terminated with a transaction dump.

User response: Ensure the resource security definitions are correct.

Module: DFHCCNV

ACNA

Explanation: The table DFHCNV cannot be loaded. This is a general purpose abend code indicating that the LOAD request for the conversion table, DFHCNV, has failed.

System action: The transaction is abnormally terminated with a transaction dump.

User response: Examine the transaction dump to determine the exact condition returned from LOAD request.

Module: DFHCCNV

ACNB

Explanation: The program DFHUCNV cannot be linked This is a general purpose abend code indicating that the LINK request for the conversion program DFHUCNV, has failed.

System action: The transaction is abnormally terminated with a transaction dump.

User response: Examine the transaction dump to determine the exact condition returned from LINK request.

Module: DFHCCNV

ACNC

Explanation: The client code page which has been requested by the client is not one which CICS can support.

System action: The transaction is abnormally terminated with a transaction dump.

User response: Ensure that the Client codepage is valid.

Module: DFHCCNV

ACND

Explanation: The conversion between client code page and server code page is not supported by CICS/390; for example conversion has been requested between Japanese code page 932 and Latin-1 code page 500.

System action: The transaction is abnormally terminated with a transaction dump.

User response: Ensure that the Client codepage, both default and overrides are in the same group as the Server codepage. for example client code page 852 from Latin-2 group, is only supported to server code page 870.

Module: DFHCCNV

ACNE

Explanation: The conversion between client code page and server code page is not supported by CICS/390. Although the code pages are in the same group, CICS does not have a conversion table to match the requested server code page for the client code page specified.

System action: The transaction is abnormally terminated with a transaction dump.

User response: Ensure that the Client codepage and the server codepage are correct. If they are as intended, then CICS can not support the requested conversion.

Module: DFHCCNV

ACP1

Explanation: DFHIC TYPE=GET response code is other than the normal response during print key processing.

System action: The transaction is abnormally terminated with a CICS transaction dump. The keyboard of the terminal on which the print key was depressed remains locked to indicate the failure of the operation.

User response: Analyze the dump. The response code is in the low order byte of register 0.

Module: DFHCPY

ACP2

Explanation: DFHIC TYPE=INITIATE response code is other than the normal response during print key processing.

System action: The transaction is abnormally terminated with a CICS transaction dump. The keyboard of the terminal on which the print key was depressed remains locked to indicate the failure of the operation.

User response: Analyze the dump. The response code

is in low-order byte of register 0.

Module: DFHCPY

ACQA

Explanation: The Connection Quiesce Protocol transaction has been initiated by user action, such as a START command or by typing the transaction identifier at a terminal. The transaction is not intended to be initiated in this way.

System action:

1. If the transaction was not initiated by terminal input, message DFHZC4951 is written to destination CSNE.
2. An exception trace record is written to all active trace destinations.
3. The transaction is abnormally terminated with a CICS transaction dump.

User response: Determine what caused the transaction to be initiated. The exception trace record contains information which will help you.

Module: DFHCLS5

ACQB

Explanation: The Connection Quiesce Protocol transaction has encountered an error when communicating with another system on an APPC session.

System action:

1. Message DFHZC4951 is written to destination CSNE.
2. An exception trace record is written to all active trace destinations.
3. The transaction is abnormally terminated with a CICS transaction dump.

User response: Determine what caused the failure. A likely cause is a failure of the session with the partner system.

Module: DFHCLS5

ACQC

Explanation: The Connection Quiesce Protocol transaction has encountered an unexpected error.

System action:

1. Message DFHZC4951 is written to destination CSNE.
2. An exception trace record is written to all active trace destinations.
3. The transaction is abnormally terminated with a CICS transaction dump.

User response: You need further assistance from IBM to resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHCLS5

ACRA

Explanation: The relay program has been invoked without a terminal as its principal facility.

System action: The task is abnormally terminated with a CICS transaction dump.

User response: Ensure that DFHAPRT has not been specified as the initial program of a task that is not terminal-related.

Module: DFHAPRT

ACRB

Explanation: The relay program has been invoked by a transaction that is not defined as remote.

System action: The task is abnormally terminated with a CICS transaction dump.

User response: Check that the relay program is defined correctly. Determine why DFHAPRT was invoked if the transaction is not a remote transaction.

Module: DFHAPRT

ACRC

Explanation: The relay program received an invalid response from DFHZCX or DFHAPRR.

System action: The task is abnormally terminated with a CICS transaction dump.

User response: You need further assistance from IBM to resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHAPRT

ACRD

Explanation: The system entry for the system to which routing is to be performed could not be found or, for CICS TS 4.1 and earlier releases, an attempt has been made to send a transaction that is defined as routable=yes over an IPIC connection.

System action: The task is abnormally terminated with a CICS transaction dump.

User response: Check the installed transaction definition to confirm that the system was correctly specified. Check that the system entry is defined to CICS with a CONNECTION or IPCONN resource definition.

Module: DFHAPRT

ACRE

Explanation: A transaction invoked from an APPC terminal and specified in the installed transaction definition as remote has abnormally terminated because the link is out of service.

System action: The task is abnormally terminated.

User response: Wait until the link is available. The CICS supplied transaction CEMT INQUIRE CONNECTION can be used to check the states of the links.

Module: DFHAPRT

ACRF

Explanation: The relay program received a nonzero return code from the dynamic router following its first invocation.

System action: The task is abnormally terminated with a CICS transaction dump.

User response: Use the dump to determine why the dynamic routing program has failed by checking the contents of the passed COMMAREA DFHDYE for correctness. The COMMAREA address can be found from field TCACOMM in the system TCA for the task. The COMMAREA fields are mapped via the DFHDYPDS DSECT.

Module: DFHAPRT

ACRG

Explanation: An ATI initiated remote transaction defined with DYNAMIC(YES) has failed because there is no matching entry in the AID chain.

Each AID in the chain has been checked and none has been found where
- The AID terminal ID matches that of the TCTTE
- The installed transaction definition and the AID transaction IDs match
- The AID is for a remote transaction
- The AID has not been canceled.

System action: The task is abnormally terminated with a CICS system dump.

User response: The dump can be used to help ascertain the mismatch. Check the transactions listed in the TCTTE and PCT fields of the system dump against the AID chain.

Module: DFHAPRT

ACRH

Explanation: The profile for the session that will carry intersystem flows during transaction routing could not be found.

System action: The task is abnormally terminated with a CICS transaction dump.

User response: Check the installed transaction definition to confirm that TRPROF is correctly specified.

Module: DFHAPRT

ACRI

Explanation: An error occurred when attempting to link to the dynamic routing program.

System action: The transaction is abnormally terminated with a CICS transaction dump.

A message in the range DFHRT4417 to DFHRT4420 is written to the CSMT log.

User response: Refer to the message sent to the CSMT log. It identifies the cause of the link failure and provides further user guidance.

Module: DFHAPRT, DFHEPC

ACRJ

Explanation: An abend has occurred in the dynamic routing program after a link has been executed from DFHAPRT or DFHEPC.

System action: The transaction is abnormally terminated with a CICS transaction dump. Message DFHRT4416 is written to the CSMT log.

User response: Refer to message DFHRT4416. It identifies the abend in the dynamic routing program and provides further user guidance.

Module: DFHAPRT, DFHEPC

ACRK

Explanation: The relay program has been invoked with no address for the principal facility.

System action: The task is abnormally terminated with a CICS transaction dump.

User response: You need further assistance from IBM to resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHAPRT

ACRL

Explanation: The task does not own the facility.

System action: The task is abnormally terminated with a CICS transaction dump.

User response: You need further assistance from IBM to resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHAPRT

ACRM

Explanation: In response to a request from the dynamic routing program, DFHAPRT has attempted an INITIAL_LINK to a program that is not the initial program of the transaction for which the dynamic router has been invoked. The attempt has failed.

System action: The transaction is abnormally terminated with a CICS transaction dump.

User response: Examine the following possibilities

- The autoinstall user-replaceable module (URM) was called but is unable to do the autoinstall.
- The autoinstall URM was called but data supplied by the autoinstall URM is invalid.
- The autoinstall URM was called, but there is no definition for the autoinstall model.
- There is a problem with the autoinstall URM.
- There is no resource definition for the program and either the autoinstall is not active or the autoinstall URM indicated that the program should not be autoinstalled.
- The program is disabled.
- The program cannot be loaded.
- The program is defined as remote.

Module: DFHAPRT

ACRN

Explanation: The dynamic routing program has indicated that the transaction should not be routed, but execute in the local system. Prior to invoking the application program, a security check is performed. This check has failed.

System action: The transaction is abnormally terminated with a CICS transaction dump.

User response: Ensure that the transaction security definition is correct.

Module: DFHAPRT

ACRO

Explanation: An attempt has been made to invoke the CRSQ transaction from a terminal. CRSQ is an internal CICS transaction and cannot be invoked in this way.

System action: The task is abnormally terminated.

User response: None. You can use CEMT and EXEC CICS commands to cancel AIDs.

Module: DFHCRQ

ACRP

Explanation: The dynamic router has supplied a sysid whose supported functions are unknown. This may be due to either a backlevel release, or APPC is used for communication and no work has flowed across this connection.

System action: The task is abnormally terminated with a CICS transaction dump.

User response: Give an alternative sysid, or revert to the old style START, or flow some routed work across the connection.

Module: DFHAPRT

ACRQ

Explanation: An attempt has been made to route unsupported function across an IPIC connection. If message DFHIS1035 is issued immediately before the ACRQ abend, the ACRQ abend is caused by an attempt to route to a backlevel release. If message DFHIS1035 is not issued, the ACRQ abend is caused by an attempt to route an APPC device.

System action: The task is abnormally terminated with a CICS transaction dump.

User response: Provide an alternative SYSID, or make an MRO or ISC connection available.

Module: DFHAPRT

ACSA

Explanation: The remote scheduler task (CRSR) does not own an intersystem link TCTTE as its principal facility.

System action: The task is abnormally terminated with a CICS transaction dump.

User response: Ensure that DFHCRS is not specified as the initial program of a task other than CRSR. Check that the terminal operator did not enter CRSR.

Module: DFHCRS

ACSB

Explanation: An unexpected reply was received from a remote system in response to a request to schedule a task on that system.

System action: The task is abnormally terminated with a CICS transaction dump.

User response: You need further assistance from IBM to resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHCRS

ACSC

Explanation: An unexpected request was received from a remote system when expecting a request to schedule a task.

System action: The task is abnormally terminated with a CICS transaction dump.

User response: You need further assistance from IBM to resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHCRS

ACSD

Explanation: An internal logic error has been detected.

System action: The task is abnormally terminated with a CICS transaction dump.

User response: You need further assistance from IBM to resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHCRS

ACSE

Explanation: Module DFHCRS has been attached in an unsupported manner.

System action: CICS abnormally terminates the transaction with a transaction dump.

User response: Module DFHCRS should be executed only by transaction CRSR, which executes with an MRO session, an LU6.1 session or an LU type 6.2 conversation as its principal facility. Ensure that the transaction is being attached by a CRSR transaction in the connected system, and not by a user transaction.

If the transaction is being attached by a CRSR transaction, you will need assistance from IBM to resolve the problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHCRS

ACSF

Explanation: The task was purged before a GETMAIN request to the storage manager (SM) domain was able to complete successfully. The task that first detects the purged condition provides an exception trace.

System action: The task is abnormally terminated with a CICS transaction dump.

User response: Investigate the reason why the task was purged. It was purged either by the master terminal operator or as a result of a deadlock timeout.

Module: DFHCRS

ACSG

Explanation: An error (INVALID, DISASTER or unexpected EXCEPTION response) has occurred on a call to the storage manager (SM) domain. The domain that detected the original error will have provided an exception trace, a console message and, possibly, a system dump (depending on the options specified in the dump table).

System action: The task is abnormally terminated with a CICS transaction dump.

User response: Please see the related error message produced by the domain that detected the original error.

Module: DFHCRS

ACSH

Explanation: The processing of APPC mapped data requires the generation of an LU6.2 attach FMH with default values. In particular, the sync level requested is defaulted to 2. However, the session that is to be used has been bound with a sync level of 1.

System action: The task is abnormally terminated with a CICS transaction dump.

User response: Check that
- The CONNECTION resource for the remote system has not been defined as single-session.
- The remote system can support a sync level of 2
- The correct sync level has been requested.

Module: DFHCRS

ACSI

Explanation: An APPC conversation failure occurred when an attach between CICS systems was issued.

System action: The task is abnormally terminated with a CICS transaction dump.

User response: Check the connection to the remote CICS system and try to reestablish it.

Module: DFHCRS

ACSJ

Explanation: An error (INVALID, DISASTER or unexpected EXCEPTION response) has occurred on a call to the recovery manager (RM) domain. The domain provides an exit trace, and possibly a console message and a system dump (depending on the options specified in the dump table). This failure is either the result of a task purge, or a CICS logic error.

System action: The task is abnormally terminated with a CICS transaction dump.

User response: See the related diagnostic material produced by the recovery manager domain and

determine the reason for the failure.

In the case of a CICS logic error, you need further assistance from IBM. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHCRS

ACSK

Explanation: The transaction wait was purged while waiting for a z/OS Communications Server INQUIRE macro to complete.

CICS issued a z/OS Communications Server INQUIRE OPTCD=NQN or INQUIRE OPTCD=SESSNAME request then waited for z/OS Communications Server to post the ECB, but the wait was terminated either as a result of an explicit FORCEPURGE request, or due to a 3 minute time out.

System action: A transaction dump is taken together with CICS issuing message DFHZC0001.

User response: Investigate the reason why the wait was terminated.

In the case of a time out, you may need further assistance from IBM. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHZGIN

ACSL

Explanation: CICS has been unable to attach a transaction to perform a mass flag (CFTS) or mass remote delete (CDTS) request.

System action: The task is abnormally terminated with a CICS transaction dump.

User response: You need further assistance from IBM to resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHCRS

ACSM

Explanation: Transaction CFTS has abended. The mass flagging of terminals for deletion has failed.

System action: The task is abnormally terminated with a CICS transaction dump.

User response: You need further assistance from IBM to resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHCRS

ACSN

Explanation: Transaction CFTS has stalled. The mass flagging of terminals for deletion has exceeded the expected time and is therefore assumed to have failed.

System action: The task is abnormally terminated with a CICS transaction dump. A flag is set in the remote work element (RWE) to indicate that the mainline transaction has assumed that CFTS has failed.

User response: You need further assistance from IBM to resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHCRS

ACSO

Explanation: An IPIC conversation failure occurred when an attach between CICS systems was issued.

System action: The task is abnormally terminated with a CICS transaction dump.

User response: Check the connection to the remote CICS system and try to reestablish it. Use the transaction dump to determine why the conversation failed. This may be the result of a security error that occurred when invalid credentials were sent, or if they were missing from the IPIC message when the connection was configured to expect them.

Module: DFHCRS

ACTA

Explanation: The relay program running in the terminal-owning region has received an unexpected request from the application owning region. The request received is in violation of CICS transaction routing protocols.

The request will be in the DFHLUCDS DSECT in DFHZTSP's LIFO – field LUCOPN0

System action: The task is abnormally terminated with a CICS transaction dump.

User response: You need further assistance from IBM to resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHZTSP

ACTB

Explanation: The relay program running in the terminal-owning region issued a terminal control WRITE,LAST request to the application-owning system, and received a nonzero return code from terminal control.

This is the usual return code from terminal control in TCATPAPR.

System action: The task is abnormally terminated with a CICS transaction dump.

User response: Use the transaction dump to determine why terminal control was unable to process the request.

Module: DFHZTSP

ACTC

Explanation: The relay program running in the terminal-owning region issued a terminal control request to free its session to the application-owning system, and received a nonzero return code from terminal control.

This is the usual return code from terminal control in TCATPAPR.

System action: The task is abnormally terminated with a CICS transaction dump.

User response: Use the transaction dump to determine why terminal control was unable to process the request.

Module: DFHZTSP

ACTD

Explanation: The relay program running in the terminal-owning region issued a terminal control WRITE,WAIT,READ request to the application-owning system, and received a nonzero return code from terminal control.

This is the usual return code from terminal control in TCATPAPR.

System action: The task is abnormally terminated with a CICS transaction dump.

User response: Use the transaction dump to determine why terminal control was unable to process the request.

Module: DFHZTSP

ACTE

Explanation: The relay program running in the terminal-owning region attempted to free its session with the APPC terminal, and received a nonzero return code from terminal control.

The return code will be in the DFHLUCDS DSECT in DFHZTSP's LIFO field, LUCRCODE.

System action: The task is abnormally terminated with a CICS transaction dump.

User response: Use the transaction dump to determine why terminal control was unable to process the request. The terminal session may have failed.

Module: DFHZTSP

ACTF

Explanation: The relay program running in the terminal-owning region issued a terminal control request to free its session to the application-owning system, and received a nonzero return code from terminal control.

This return code can be found in the TCA field, TCATPAPR.

System action: The task is abnormally terminated with a CICS transaction dump.

User response: Use the transaction dump to determine why terminal control was unable to process the request. The transaction on the application-owning region may have abnormally terminated or the session may have failed.

Module: DFHZTSP

ACTG

Explanation: The relay program running in the terminal-owning region issued a request to attach a transaction in the application-owning region, but the response received from that region was invalid.

The return code in the TCA (field TCATPAPR) will be nonzero, and either there will be no TIOA (field TCTTEDA in the TCTTE is zero) or there will be no FMH7 at the start of the TIOA.

System action: The task is abnormally terminated with a CICS transaction dump.

User response: Use the transaction dump to determine why terminal control was unable to process the request. The transaction on the application-owning region may have abnormally terminated or the session may have failed.

Module: DFHZTSP

ACTH

Explanation: A privileged allocate was issued against a remote LU 6.2 system.

System action: The task is abnormally terminated with a CICS transaction dump.

User response: You need further assistance from IBM to resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHZISP

ACTI

Explanation: The relay transaction has an ISC or MRO session as its principal facility. However the TCTTE for that session is not owned by the task.

System action: The task is abnormally terminated

with a CICS transaction dump.

User response: You need further assistance from IBM to resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHCRT

ACTJ

Explanation: The principal facility of the relay transaction is not a TCTTE.

System action: The task is abnormally terminated with a CICS transaction dump.

User response: Task CXRT should only be started in a terminal-owning region by an ALLOCATE request issued in an application-owning region against a remote APPC device. The principal facility of the task should be an ISC or MRO link. Check that your CICS system is defined in such a way that this will always be the case. Also ensure that program DFHCRT is started only by task CXRT.

Module: DFHCRT

ACTK

Explanation: The task was purged before a GETMAIN request to the storage manager (SM) domain was able to complete successfully. The task that first detected the purged condition will have provided an exception trace.

System action: The task is abnormally terminated with a CICS transaction dump.

User response: Investigate the reason why the task was purged. It was either purged by the master terminal operator or as a result of a deadlock timeout.

Module: DFHZISP

ACTL

Explanation: An error (INVALID, DISASTER or unexpected EXCEPTION response) has occurred on a call to the storage manager (SM) domain. The domain that detected the original error will have provided an exception trace, a console message and, possibly, a system dump (depending on the options specified in the dump table).

System action: The task is abnormally terminated with a CICS transaction dump.

User response: See the related message produced by the domain that detected the original error.

Module: DFHZISP

ACU0

Explanation: The transaction routing program in the application-owning region issued a terminal control WRITE,LAST,WAIT request to the terminal-owning region, and received a nonzero return code from terminal control.

The return code is located both in TCATPAPR and in the trace entry on return from DFHZARQ.

System action: The task is abnormally terminated with a transaction dump and an exception trace entry.

User response: Use the transaction dump to determine why terminal control was unable to process the request. This abend code may result when

- The relay program in the terminal-owning region terminates abnormally. In this case, determine the reason why the relay program has abnormally terminated.
- The session has failed.

Module: DFHZXRL

ACU1

Explanation: Refer to the description of abend ACUO.

Module: DFHZXRL

ACU2

Explanation: The transaction routing program in the application-owning region received a response from the terminal-owning region which violates CICS transaction routing protocols.

The trace from the terminal-owning region will show its response to the application-owning region.

System action: The task is abnormally terminated with a transaction dump and an exception trace entry.

User response: You need further assistance from IBM to resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHZXRL

ACU3

Explanation: The transaction routing program in the application-owning region attempted to set the conversation state machine to a state which violates CICS transaction routing protocols.

The register containing the state can be determined from the assembler listing.

System action: The task is abnormally terminated with a transaction dump and an exception trace entry.

User response: You need further assistance from IBM to resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHZXRL

ACU4

Explanation: The transaction routing program in the application-owning region issued a SET request to the conversation state machine and received a nonzero return code. This violates CICS transaction routing protocols.

The trace entry on return from DFHZUSR will show the request type and current state.

System action: The task is abnormally terminated with a transaction dump and an exception trace entry.

User response: You need further assistance from IBM to resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHZXRL

ACU5

Explanation: An program running in an application-owning region has issued an ALLOCATE against an APPC device attached to a terminal owning region, but the connection between the two systems is not installed.

System action: The task is abnormally terminated with a transaction dump and an exception trace entry.

User response: Install the connection between the two regions.

Module: DFHZXRL

ACU6

Explanation: A request to DFHRTSU to prepare the surrogate TCTTE for syncpoint gave an unexpected response and reason code. The response and reason code are included in DFHRTSU's parameter list which is printed in the exception trace.

System action: The task is abnormally terminated with a transaction dump and an exception trace entry.

User response: You need further assistance from IBM to resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHZXRL

ACU7

Explanation: A request to allocate a session between the application-owning region and the terminal-owning region was issued, but the connection with the remote system is not an APPC or MRO connection.

System action: The task is abnormally terminated with a CICS transaction dump.

User response: Redefine the connection as APPC or MRO, or avoid using transaction routing on this connection.

Module: DFHZXRL

ACU8

Explanation: A request to DFHRTSU to get the recovery status of a surrogate TCTTE gave an unexpected response and reason code. The response and reason code are included in DFHRTSU's parameter list which is printed in the exception trace.

System action: The task is abnormally terminated with a transaction dump and an exception trace entry.

User response: You need further assistance from IBM to resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHZXRL

ACU9

Explanation: A request to recovery manager to set the recovery status of a link gave an unexpected response and reason code. The response and reason code are included in DFHRMLN's parameter list which is printed in the exception trace.

System action: The task is abnormally terminated with a transaction dump and an exception trace entry.

User response: You need further assistance from IBM to resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHZXRL

ACUA

Explanation: DFHZXRL was called with a request which is not supported for transaction routing.

The request is located in the DFHLUC parameter list which is printed in the exception trace. DFHZXRL is called from DFHZARL, which will put details of the request in its trace entry.

System action: The task is abnormally terminated with a transaction dump and an exception trace entry.

User response: You need further assistance from IBM to resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHZXRL

ACUB

Explanation: The parameter list passed to DFHZXRL for an ALLOCATE request does not contain the TCTSE address of a remote APPC terminal.

The TCTSE address is located in the DFHLUC parameter list which is printed in the exception trace.

DFHZXRL is called from DFHZARL, which will put details of the request in its trace entry.

System action: The task is abnormally terminated with a transaction dump and an exception trace entry.

User response: You need further assistance from IBM to resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHZXRL

ACUC

Explanation: The TCTSE address passed to DFHZXRL is not that of a remote LU 6.2 terminal.

The TCTSE address is located in the DFHLUC parameter list which is printed in the exception trace. DFHZXRL is called from DFHZARL, which will put details of the request in its trace entry.

System action: The task is abnormally terminated with a transaction dump and an exception trace entry.

User response: You need further assistance from IBM to resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHZXRL

ACUD

Explanation: The profile DFHCICSR could not be located as an installed profile definition.

System action: The task is abnormally terminated with a transaction dump and an exception trace entry.

User response: Check that the IBM-supplied profile DFHCICSR is correctly defined and installed to CICS.

Module: DFHZXRL

ACUE

Explanation: A request to DFHZTSP to build a surrogate TCTTE was not satisfied.

System action: The task is abnormally terminated with a transaction dump and an exception trace entry.

User response: You need further assistance from IBM to resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHZXRL

ACUF

Explanation: A session between the application-owning region and the terminal-owning region was not allocated because the request was incorrectly specified.

System action: The task is abnormally terminated with a transaction dump and an exception trace entry.

User response: You need further assistance from IBM to resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHZXRL

ACUG

Explanation: A request to allocate a session between the application-owning region and the terminal-owning region failed. The return code from the ALLOCATE request indicated that the profile could not be located as an installed transaction definition, although an earlier attempt to locate it was successful.

The return code is located both in TCATPAPR and in the trace entry on return from DFHZARQ.

System action: The task is abnormally terminated with a transaction dump and an exception trace entry.

User response: You need further assistance from IBM to resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHZXRL

ACUH

Explanation: A request to allocate a session between the application-owning region and the terminal-owning region failed. The return code from the ALLOCATE request indicated that the requested session is already owned by the TCA.

The return code is located both in TCATPAPR and in the trace entry on return from DFHZARQ.

System action: The task is abnormally terminated with a transaction dump and an exception trace entry.

User response: You need further assistance from IBM to resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHZXRL

ACUI

Explanation: An ISC session between the application-owning region and the terminal-owning region was not allocated because the MODENAME named in the profile could not be found. The profile DFHCICSR as supplied by IBM does not specify a MODENAME. Therefore, this error will occur when a MODENAME has been added to the IBM-supplied profile, but that MODENAME is not defined in the SESSIONS definition for the terminal-owning region.

System action: The task is abnormally terminated with a transaction dump and an exception trace entry.

User response: Ensure that the MODENAME specified in profile DFHCICSR was also specified when defining the SESSIONS to the terminal-owning region.

Module: DFHZXRL

ACUJ

Explanation: A session between the application-owning region and the terminal-owning region was not allocated because the maximum session count for the mode group specified in profile DFHCICSR is zero.

System action: The task is abnormally terminated with a transaction dump and an exception trace entry.

User response: Use the CEMT transaction to set sessions in the required mode group available for use.

Module: DFHZXRL

ACUK

Explanation: No TCT entry was found for the terminal-owning region specified in the TCTSE for the remote terminal.

System action: The task is abnormally terminated with a transaction dump and an exception trace entry.

User response: Ensure that the terminal-owning region defined in the remote system entry is also defined to CICS.

Module: DFHZXRL

ACUL

Explanation: The transaction routing program in the application-owning region issued a terminal control WRITE,WAIT,READ request to the terminal-owning region, and received a nonzero return code from terminal control.

The return code is located both in TCATPAPR and in the trace entry on return from DFHZARQ.

System action: The task is abnormally terminated with a transaction dump and an exception trace entry.

User response: Use the transaction dump to determine why terminal control was unable to process the request. This abend code may result when

- The relay program in the terminal-owning region terminates abnormally. In this case, determine the reason why the relay program has abnormally terminated.
- The session has failed.

Module: DFHZXRL

ACUM

Explanation: A request to DFHZTSP to free a surrogate TCTTE was not satisfied.

System action: The task is abnormally terminated with a transaction dump and an exception trace entry.

User response: You need further assistance from IBM to resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHZXRL

ACUO

Explanation: A terminal control READ request has failed. The transaction routing program in the application-owning region attempted to receive data from the terminal-owning region, and received a nonzero return code from terminal control.

The return code is located both in TCATPAPR and in the trace entry on return from DFHZARQ.

System action: The task is abnormally terminated with a transaction dump and an exception trace entry.

User response: Use the transaction dump to determine why terminal control was unable to process the request. This abend code may result when

- The relay program in the terminal-owning region terminates abnormally. In this case, determine the reason why the relay program has abnormally terminated.
- The session has failed.

Module: DFHZXRL

ACUP

Explanation: The transaction routing program in the application-owning region did not receive a rollback from the terminal-owning region. This violates CICS transaction routing protocols.

The trace from the terminal-owning region will show its response to the application-owning region.

System action: The task is abnormally terminated with a transaction dump and an exception trace entry.

User response: You need further assistance from IBM to resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHZXRL

ACUQ

Explanation: Refer to the description of abend ACUO.

Module: DFHZXRL

ACUR

Explanation: Refer to the description of abend ACUP.

Module: DFHZXRL

ACUS

Explanation: Refer to the description of abend ACUO.

Module: DFHZXRL

ACUT

Explanation: The transaction routing program in the application-owning region did not receive either a syncpoint or a rollback from the terminal-owning region. This violates CICS transaction routing protocols.

The trace from the terminal-owning region will show its response to the application-owning region.

System action: The task is abnormally terminated with a transaction dump and an exception trace entry.

User response: You need further assistance from IBM to resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHZXRL

ACUV

Explanation: The transaction routing program in the application-owning region issued a terminal control ISSUE ABEND request on an MRO link to the terminal-owning region, and received a nonzero return code from terminal control.

The return code is located both in TCATPAPR and in the trace entry on return from DFHZIS1.

System action: The task is abnormally terminated with a transaction dump and an exception trace entry.

User response: Use the transaction dump to determine why terminal control was unable to process the request. This abend code may result when

- The relay program in the terminal-owning region terminates abnormally. In this case, determine the reason why the relay program has abnormally terminated.
- The session has failed.

Module: DFHZXRL

ACUW

Explanation: The transaction routing program in the application-owning region issued a terminal control ISSUE ERROR request on an MRO link to the terminal-owning region, and received a nonzero return code from terminal control.

The return code is located both in TCATPAPR and in the trace entry on return from DFHZIS1.

System action: The task is abnormally terminated with a transaction dump and an exception trace entry.

User response: Use the transaction dump to determine why terminal control was unable to process the request. This abend code may result when

- The relay program in the terminal-owning region terminates abnormally. In this case, determine the reason why the relay program has abnormally terminated.
- The session has failed.

Module: DFHZXRL

ACUX

Explanation: Refer to the description of abend ACUL.

Module: DFHZXRL

ACUY

Explanation: The transaction routing program in the application-owning region issued a terminal control WRITE,WAIT request to the terminal-owning region, and received a nonzero return code from terminal control.

The return code is located both in TCATPAPR and in the trace entry on return from DFHZARQ.

System action: The task is abnormally terminated with a transaction dump and an exception trace entry.

User response: Use the transaction dump to determine why terminal control was unable to process the request. This abend code may result when

- The relay program in the terminal-owning region terminates abnormally. In this case, determine the reason why the relay program has abnormally terminated.
- The session has failed.

Module: DFHZXRL

ACUZ

Explanation: Refer to the description of abend ACUL.

Module: DFHZXRL

ACVA

Explanation: The transaction routing program in the terminal-owning region issued a terminal control WRITE,WAIT,READ request to the application-owning region, and received a nonzero return code from terminal control.

The return code is located both in TCATPAPR and in the trace entry on return from DFHZARQ.

System action: The task is abnormally terminated with a transaction dump and an exception trace entry.

User response: Use the transaction dump to determine why terminal control was unable to process the request. This abend code may result when

- The program in the application-owning region terminates abnormally. In this case, determine the reason why the program has abnormally terminated.
- The session has failed.

Module: DFHZXRT

ACVB

Explanation: The transaction routing program in the terminal-owning region attempted to issue an ISSUE SIGNAL request on an MRO link to the application-owning region. This violates CICS transaction routing protocols.

System action: The task is abnormally terminated with a transaction dump and an exception trace entry.

User response: You need further assistance from IBM to resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHZXRT

ACVC

Explanation: The transaction routing program in the terminal-owning region issued an ISSUE SIGNAL request on an LU 6.2 link to the application-owning region, and received a nonzero return code from terminal control.

The return code is located in the DFHLUC parameter list which is printed in the exception trace.

System action: The task is abnormally terminated with a transaction dump and an exception trace entry.

User response: Use the transaction dump to determine why terminal control was unable to process the request. This abend code may result when
- The program in the application-owning region terminates abnormally. In this case, determine the reason why the program has abnormally terminated.
- The session has failed.

Module: DFHZXRT

ACVD

Explanation: The transaction routing program in the terminal-owning region issued a READ,WAIT request to the application-owning region, and received a nonzero return code from terminal control.

The return code is located both in TCATPAPR and in the trace entry on return from DFHZARQ.

System action: The task is abnormally terminated with a transaction dump and an exception trace entry.

User response: Use the transaction dump to determine why terminal control was unable to process the request. This abend code may result when
- The program in the application-owning region terminates abnormally. In this case, determine the reason why the program has abnormally terminated.
- The session has failed.

Module: DFHZXRT

ACVE

Explanation: The transaction routing program in the terminal-owning region issued a WRITE request to the application-owning region, and received a nonzero return code from terminal control.

The return code is located both in TCATPAPR and in the trace entry on return from DFHZARQ.

System action: The task is abnormally terminated with a transaction dump and an exception trace entry.

User response: Use the transaction dump to determine why terminal control was unable to process the request. This abend code may result when
- the program in the application-owning region terminates abnormally. In this case, determine the reason why the program has abnormally terminated.
- the session has failed.

Module: DFHZXRT

ACVF

Explanation: The transaction routing program in the terminal-owning region issued a WRITE,LAST,WAIT request to the application-owning region, and received a nonzero return code from terminal control.

The return code is located both in TCATPAPR and in the trace entry on return from DFHZARQ.

System action: The task is abnormally terminated with a transaction dump and an exception trace entry.

User response: Use the transaction dump to determine why terminal control was unable to process the request. This abend code may result when
- The program in the application-owning region terminates abnormally. In this case, determine the reason why the program has abnormally terminated.
- The session has failed.

Module: DFHZXRT

ACVG

Explanation: The transaction routing program in the terminal-owning region issued a FREE request to free the session with the LU 6.2 terminal, and received a nonzero return code from terminal control.

The return code is located in the DFHLUC parameter list which is printed in the exception trace.

System action: The task is abnormally terminated with a transaction dump and an exception trace entry.

User response: Use the transaction dump to determine why terminal control was unable to process the request. The terminal session may have failed.

Module: DFHZXRT

ACVH

Explanation: The transaction routing program in the terminal-owning region issued a FREE request to free the session with the application-owning region, and received a nonzero return code from terminal control.

The return code is located both in TCATPAPR and in the trace entry on return from DFHZARQ.

System action: The task is abnormally terminated with a transaction dump and an exception trace entry.

User response: Use the transaction dump to determine why terminal control was unable to process the request. This abend code may result when
- The program in the application-owning region terminates abnormally. In this case, determine the reason why the program has abnormally terminated.
- The session has failed.

Module: DFHZXRT

ACVK

Explanation: The transaction routing program in the terminal-owning region issued an ISSUE ABEND request on an LU 6.2 link, and received a nonzero return code from terminal control.

The return code is located in the DFHLUC parameter list which is printed in the exception trace.

System action: The task is abnormally terminated with a transaction dump and an exception trace entry.

User response: Use the transaction dump to determine why terminal control was unable to process the request. This abend code may result when
- The program in the connected region terminates abnormally. In this case, determine the reason why the program has abnormally terminated.
- The session has failed.

Module: DFHZXRT

ACVL

Explanation: The transaction routing program in the terminal-owning region issued an ISSUE ABEND request on an MRO link to the application-owning region, and received a nonzero return code from terminal control.

The return code is located both in TCATPAPR and in the trace entry on return from DFHZIS1.

System action: The task is abnormally terminated with a transaction dump and an exception trace entry.

User response: Use the transaction dump to determine why terminal control was unable to process the request. This abend code may result when
- The program in the application-owning region terminates abnormally. In this case, determine the reason why the program has abnormally terminated.
- The session has failed.

Module: DFHZXRT

ACVM

Explanation: The transaction routing program in the terminal-owning region issued an ISSUE ERROR request on an LU 6.2 link, and received a nonzero return code from terminal control.

The return code is located in the DFHLUC parameter list which is printed in the exception trace.

System action: The task is abnormally terminated with a transaction dump and an exception trace entry.

User response: Use the transaction dump to determine why terminal control was unable to process the request. This abend code may result when
- The program in the connected region terminates abnormally. In this case, determine the reason why the program has abnormally terminated.
- The session has failed.

Module: DFHZXRT

ACVN

Explanation: The transaction routing program in the terminal-owning region issued an ISSUE ERROR request on an MRO link to the application-owning region, and received a nonzero return code from terminal control.

The return code is located both in TCATPAPR and in the trace entry on return from DFHZIS1.

System action: The task is abnormally terminated with a transaction dump and an exception trace entry.

User response: Use the transaction dump to determine why terminal control was unable to process the request. This abend code may result when
- The program in the application-owning region terminates abnormally. In this case, determine the reason why the program has abnormally terminated.
- The session has failed.

Module: DFHZXRT

ACVO

Explanation: The transaction routing program in the terminal-owning region issued an ISSUE PREPARE request and received either a nonzero return code or a response which violates CICS transaction routing protocols.

The return code is located in TCASPRC and the response is located in TCASPSN1.

System action: The task is abnormally terminated with a transaction dump and an exception trace entry.

User response: Use the transaction dump to determine whether the problem is caused by the return code or the response. If terminal control was unable to process the request, the abend may occur when

- The program in the connected region terminates abnormally. In this case, determine the reason why the program has abnormally terminated.
- The session has failed.

Otherwise the distributed application programs may have violated APPC conversation protocols.

Module: DFHZXRT

ACVP

Explanation: The transaction routing program in the terminal-owning region did not receive an FMH43 from the application-owning region. This violates CICS transaction routing protocols.

The trace from the application-owning region will show its response to the terminal-owning region.

System action: The task is abnormally terminated with a transaction dump and an exception trace entry.

User response: You need further assistance from IBM to resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHZXRT

ACVQ

Explanation: The transaction routing program in the terminal-owning region issued a request to the APPC terminal, and received a nonzero return code from terminal control.

Both the request and the return code are located in the DFHLUC parameter list which is printed in the exception trace.

System action: The task is abnormally terminated with a transaction dump and an exception trace entry.

User response: Use the transaction dump to determine why terminal control was unable to process the request. The terminal session may have failed or be in the wrong state, for example, as the result of both the terminal and application issuing SYNCPOINT ROLLBACK at the same time.

Module: DFHZXRT

ACVR

Explanation: The transaction routing program in the terminal-owning region issued a SEND,LAST,WAIT request to the LU 6.2 terminal, and received a nonzero return code from terminal control.

The return code is located in the DFHLUC parameter list which is printed in the exception trace.

System action: The task is abnormally terminated with a transaction dump and an exception trace entry.

User response: Use the transaction dump to determine why terminal control was unable to process the request. The terminal session may have failed.

Module: DFHZXRT

ACWA

Explanation: CICS CWTO transaction has failed because the task does not own a terminal (TCTTE) as its principal facility. This has probably happened because CWTO has been started as an EXEC CICS START transid without a terminal ID.

System action: The transaction is abnormally terminated without a transaction dump.

User response: Retry with a terminal ID value or enter CWTO from a terminal.

Module: DFHCWTO

ACXA

Explanation: The catch-up transaction, CXCU, has failed. CXCU runs either in response to a transaction request from an end-user, or is run automatically by an active CICS system in response to the appearance of an alternative CICS system. Its purpose is to inform the alternate system of the active system's state regarding terminals and DBCTL connection.

System action: The catch-up transaction, CXCU, is abnormally terminated with a CICS transaction dump. Both active and alternate CICS systems continue, but the alternate CICS system is less effective in the event of a takeover. For example, terminal back-up sessions may not be established. This abend is accompanied by DFHDX8313.

User response: Retry by entering 'CXCU' from a terminal. If the error persists, diagnose the problem from the dump.

Module: DFHCXCU

ADxx abend codes

AD21

Explanation: The CICS-DB2 attachment facility received a request for a resource manager with the incorrect name. Message DFHDB2045 is output to transient data detailing the invalid name.

System action: The transaction is abnormally terminated with a transaction dump.

User response: You need further assistance from IBM to resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHD2EX1

AD22

Explanation: The CICS-DB2 attachment facility EDF processor was unable to interpret the SQL request.

System action: The command is not interpreted by EDF. A CICS transaction dump is taken with abend code AD22.

User response: You need further assistance from IBM to resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHD2EDF

AD23

Explanation: An error (INVALID, DISASTER or unexpected EXCEPTION response) has occurred on a LOCK call to the lock manager (LM) domain made by the CICS-DB2 attachment facility service transaction CEX2. A console message is output, an exception trace written and, possibly, a system dump taken (depending on the options specified in the dump table).

System action: The CICS-DB2 service task initiates a force shutdown of the CICS-DB2 interface.

User response: You need further assistance from IBM to resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHD2EX2

AD24

Explanation: An error (INVALID, DISASTER or unexpected EXCEPTION response) has occurred on an UNLOCK call to the lock manager (LM) domain made by the CICS-DB2 attachment facility service transaction CEX2. A console message is output, an exception trace written and, possibly, a system dump taken (depending on the options specified in the dump table).

System action: The CICS-DB2 Service task initiates a force shutdown of the CICS-DB2 interface.

User response: You need further assistance from IBM to resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHD2EX2

AD25

Explanation: An error (INVALID, DISASTER or unexpected EXCEPTION response) has occurred on a LOCK call to the lock manager (LM) domain made by the CICS-DB2 attachment facility while processing a DSNC command. A console message is output, an exception trace written and, possibly, a system dump taken (depending on the options specified in the dump table).

System action: The DSNC command fails and the transaction is abnormally terminated with a transaction dump.

User response: You need further assistance from IBM to resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHD2CC

AD26

Explanation: An error (INVALID, DISASTER or unexpected EXCEPTION response) has occurred on an UNLOCK call to the lock manager (LM) domain made by the CICS-DB2 attachment facility while processing a DSNC command. A console message is output, an exception trace written and, possibly, a system dump taken (depending on the options specified in the dump table).

System action: The DSNC command fails and the transaction is abnormally terminated with a transaction dump.

User response: You need further assistance from IBM to resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHD2CC

AD27

Explanation: The CICS-DB2 attachment facility attempted to attach a TCB on which a DB2 thread was to be created to service the SQL request from the application. The attach of the TCB failed due to lack of storage.

System action: The transaction is abnormally terminated with a transaction dump.

User response: Increase the size of the CICS region or lower the TCBLIMIT value specified in the DB2CONN.

Module: DFHD2EX1

AD28

Explanation: The CICS-DB2 attachment facility attempted to attach a TCB on which a DB2 thread was to be created to service the SQL request from the application. The attach of the TCB failed.

System action: The transaction is abnormally terminated with a transaction dump.

User response: You need further assistance from IBM to resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHD2EX1

AD29

Explanation: The CICS-DB2 attachment facility was unable to link to its EDF processor DFHD2EDF.

System action: The command is not interpreted by EDF. Message DFHDB2048 is output to transient data and a transaction dump is taken with abend code AD29.

User response: Examine the trace in the CICS transaction dump to determine why the link to module DFHD2EDF failed.

Module: DFHD2EDF

AD2A

Explanation: An error (INVALID, DISASTER or unexpected EXCEPTION response) has occurred on a LOCK call to the lock manager (LM) domain. A console message is output, an exception trace written and, possibly, a system dump taken (depending on the options specified in the dump table).

System action: The task is abnormally terminated with a CICS transaction dump.

User response: You need further assistance from IBM to resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHD2EX1

AD2B

Explanation: An error (INVALID, DISASTER or unexpected EXCEPTION response) has occurred on an UNLOCK call to the lock manager (LM) domain. A console message is output, an exception trace written and, possibly, a system dump taken (depending on the options specified in the dump table).

System action: The task is abnormally terminated with a CICS transaction dump.

User response: You need further assistance from IBM to resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHD2EX1

AD2C

Explanation: An unexpected EXCEPTION response has occurred on a locate call to directory manager (DD) domain to locate a DB2TRAN control block. A console message is output, an exception trace written and, possibly, a system dump taken (depending on the options specified in the dump table).

System action: The task is abnormally terminated with a CICS transaction dump.

User response: You need further assistance from IBM to resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHD2EX1

AD2D

Explanation: An error (INVALID or DISASTER response) has occurred on a locate call to directory manager (DD) domain to locate a DB2TRAN control block. A console message is output, an exception trace written and, possibly, a system dump taken (depending on the options specified in the dump table).

System action: The task is abnormally terminated with a CICS transaction dump.

User response: You need further assistance from IBM to resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHD2EX1

AD2E

Explanation: An unexpected EXCEPTION response has occurred on a locate call to directory manager (DD) domain to locate a DB2ENTRY control block. A console message is output, an exception trace written and, possibly, a system dump taken (depending on the options specified in the dump table).

System action: The task is abnormally terminated with a CICS transaction dump.

User response: You need further assistance from IBM to resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHD2EX1

AD2F

Explanation: An error (INVALID or DISASTER response) has occurred on a locate call to directory manager (DD) domain to locate a DB2ENTRY control block A console message is output, an exception trace written and, possibly, a system dump taken (depending on the options specified in the dump table).

System action: The task is abnormally terminated with a CICS transaction dump.

User response: You need further assistance from IBM to resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHD2EX1

AD2G

Explanation: A transaction attempted to use a DB2ENTRY that is DISABLED or is DISABLING. The DISABLEDACT attribute of the DB2ENTRY specified ABEND meaning that new transactions that attempt to use the DB2ENTRY should be abended.

System action: The task is abnormally terminated with a CICS transaction dump.

User response: Use CEMT INQ DB2TRAN TRANSID(tttt) where tttt is the transid, to determine the name of the DB2ENTRY involved. Re-enable the DB2ENTRY or discard the DB2ENTRY so that the transid will use a pool thread.

Module: DFHD2EX1

AD2H

Explanation: The CICS-DB2 attachment facility detected that a dynamic plan exit program abended.

System action: CICS trapped the abend from the dynamic plan exit, issued message DFHDB2050, and then abnormally terminated the task with a CICS transaction dump.

User response: See the associated DFHDB2050 transient data message to determine the abend code with which the dynamic plan exit program abended. Determine why the exit program abended.

Module: DFHD2EX1

AD2I

Explanation: The CICS-DB2 attachment facility failed to link to a dynamic plan exit program because it was not link edited AMODE 31.

System action: The task is abnormally terminated with a CICS transaction dump.

User response: See the associated DFHDB2051 transient data message to determine the name of the dynamic plan exit program involved. Re-linkedit the dynamic plan exit program AMODE 31.

Module: DFHD2EX1

AD2J

Explanation: The CICS-DB2 attachment facility failed to link to a dynamic plan exit program because it is disabled.

System action: The task is abnormally terminated with a CICS transaction dump.

User response: See the associated DFHDB2053 transient data message to determine the name of the dynamic plan exit program involved. Enable the dynamic plan exit program.

Module: DFHD2EX1

AD2K

Explanation: The CICS-DB2 attachment facility failed to link to a dynamic plan exit program because no program definition was found.

System action: The task is abnormally terminated with a CICS transaction dump.

User response: See the associated DFHDB2057 transient data message to determine the name of the dynamic plan exit program involved. Ensure that the dynamic plan exit program has been correctly defined to CICS.

Module: DFHD2EX1

AD2L

Explanation: The CICS-DB2 attachment facility failed to link to a dynamic plan exit program because the program could not be loaded.

System action: The task is abnormally terminated with a CICS transaction dump.

User response: See the associated DFHDB2058 transient data message to determine the name of the dynamic plan exit program involved. Ensure that the dynamic plan exit program has been correctly defined and is in a load library accessible to CICS.

Module: DFHD2EX1

AD2M

Explanation: The CICS-DB2 attachment facility failed to link to a dynamic plan exit program because the program is defined as remote.

System action: The task is abnormally terminated with a CICS transaction dump.

User response: See the associated DFHDB2066 transient data message to determine the name of the dynamic plan exit program involved. Correct the program definition for the dynamic plan exit program so that it is defined as local.

Module: DFHD2EX1

AD2N

Explanation: The CICS-DB2 attachment facility failed to link to a dynamic plan exit program.

System action: The task is abnormally terminated with a CICS transaction dump.

User response: See the associated DFHDB2054 transient data message to determine the name of the dynamic plan exit program involved. Examine the transaction dump to determine why the link failed.

Module: DFHD2EX1

AD2O

Explanation: An error (INVALID, DISASTER or unexpected EXCEPTION response) has occurred on an WAIT_MVS call to the dispatcher (DS) domain. A console message is output, an exception trace written and, possibly, a system dump taken (depending on the options specified in the dump table).

System action: The task is abnormally terminated with a CICS transaction dump.

User response: You need further assistance from IBM to resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHD2EX1

AD2P

Explanation: The transaction was unable to obtain a DB2 thread from a DB2ENTRY or the pool. See the associated transient data message DFHDB2011 to determine which DB2ENTRY was involved or whether it was the pool. The transaction was abended because the DB2ENTRY or the pool specified threadwait(no) meaning do not wait for a thread if all threads are currently in use. Note if message DFHDB2011 indicates that the pool was being used, it means the transaction was using the pool directly rather than overflowing to the pool. (An abend AD3T is produced when a transaction overflows to the pool and no pool threads are available.)

System action: The task is abnormally terminated with a CICS transaction dump.

User response: Determine whether more threads should be allocated to the DB2ENTRY or the pool, or whether the number of instances of this transaction should be limited using TRANCLASS.

Module: DFHD2EX1

AD2Q

Explanation: An error (INVALID, DISASTER or unexpected EXCEPTION response) has occurred on an getmain call to the storage manager (SM) domain. A console message is output, an exception trace written and, possibly, a system dump taken (depending on the options specified in the dump table).

System action: The task is abnormally terminated with a CICS transaction dump.

User response: You need further assistance from IBM to resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHD2EX1

AD2R

Explanation: The CICS-DB2 thread TCB processing the DB2 request for this transaction has abended. An exception trace (AP 319D) is written containing the MVS abend code and reason code as well as the relevant CICS-DB2 control blocks used by the CICS task and the CICS-DB2 thread TCB. In particular the CSUB control block contains data from the MVS SDWA at the time of the abend, for example fields CSB_SDWA_REGS (regs 0 -15) and CSB_SDWA_PSW.

The thread TCB is terminated if a CICS transaction is forcepurged from CICS and the thread is still active in DB2.

System action: The task is abnormally terminated with a CICS transaction dump.

User response: Examine the trace in the CICS transaction dump to determine why the CICS-DB2 thread TCB abended.

Module: DFHD2EX1

AD2S

Explanation: The thread TCB servicing the DB2 request for the transaction issued a sign-on request to DB2 which failed. The installed DB2CONN specifies THREADERROR(N906D) or THREADERROR(ABEND).

System action: If THREADERROR(N906D) is specified in the DB2CONN, processing continues. A -906 sqlcode is returned to the application, and a transaction dump is taken with abend code AD2S.

If THREADERROR(ABEND) is specified in the DB2CONN, the task is abnormally terminated with a CICS transaction dump.

User response: Examine the AUTHID or AUTHTYPE parameter of the DB2ENTRY or pool used for the transaction. Ensure the id is authorised to access the plan in DB2.

Module: DFHD2EX1

AD2T

Explanation: An attempt to create a DB2 thread by the TCB servicing the DB2 request for the transaction failed with DB2 reason code 00F30040. The installed

DB2CONN specifies THREADERROR(N906D) or THREADERROR(ABEND).

System action: If THREADERROR(N906D) is specified in the DB2CONN, processing continues. A -906 sqlcode is returned to the application and a transaction dump is taken with abend code AD2T.

If THREADERROR(ABEND) is specified in the DB2CONN, the task is abnormally terminated with a CICS transaction dump.

User response: Either the plan is unavailable or is not known to DB2.

Module: DFHD2EX1

AD2U

Explanation: An attempt to create a DB2 thread by the TCB servicing the DB2 request failed. The installed DB2CONN specifies THREADERROR(N906D) or THREADERROR(ABEND).

System action: If THREADERROR(N906D) is specified in the DB2CONN, processing continues. A -906 sqlcode is returned to the application and a transaction dump is taken with abend code AD2U.

If THREADERROR(ABEND) is specified in the DB2CONN, the task is abnormally terminated with a CICS transaction dump.

User response: Examine the dump to determine why the create thread failed.

Module: DFHD2EX1

AD2V

Explanation: The CICS-DB2 attachment facility issued a commit or abort request to DB2 but received a reason code 00F30805 indicating that connection to DB2 has been lost. This is due to DB2 terminating abnormally or being in the process of terminating abnormally. If the commit or abort request was preceded by a prepare request, DB2 may well still be indoubt. In this case, the CICS-DB2 attachment facility instructs CICS to remember the outcome of the UOW pending resynchronisation, which will happen when CICS and DB2 are reconnected. For an abort request not preceded by a prepare, i.e. a transaction abend or syncpoint rollback, DB2 will not be indoubt as the UOW was still inflight. DB2 will backout updates made by the UOW when restarted so there is no need for CICS to remember the outcome of the UOW.

System action: The transaction completes normally but a transaction dump is taken with abend code AD2V. If DB2 is indoubt about the outcome of the UOW it will be resolved when CICS and DB2 are reconnected.

User response: Contact your system programmer to restart the DB2 subsystem.

Module: DFHD2EX1

AD2W

Explanation: The CICS-DB2 attachment facility issued a single-phase commit call to DB2 but received an unexpected response. Transient data message DFHDB2055 details the DB2 reason code received. The commit request may have been processed or it may have been ended. There is no resynchronisation needed, as no CICS recoverable resources were updated.

System action: The CICS-DB2 attachment facility abnormally terminates the transaction with abend code AD2W. The CICS recovery manager will supersede the AD2W abend code with abend code ASPR. A transaction dump is taken.

User response: You need further assistance from IBM to resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHD2EX1

AD2X

Explanation: The CICS-DB2 attachment facility detected that the CICS task and the thread TCB were in an invalid state. A console message is output, an exception trace written and, possibly, a system dump taken (depending on the options specified in the dump table).

System action: The task is abnormally terminated with a transaction dump.

User response: You need further assistance from IBM to resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHD2EX1

AD2Y

Explanation: The transaction was unable to obtain a DB2 thread from a DB2ENTRY or the pool because there were no TCBs available on which to create the thread. The number of thread TCBs currently running is at the TCBLIMIT defined in the DB2CONN. Message DFHDB2010 is output to transient data. The transaction was abended because either

- The DB2ENTRY specifies threadwait(no), meaning do not wait for a thread, including having to wait to create a thread because a TCB is not available - that is, do not wait for a TCB either.
- The DB2ENTRY specified threadwait(pool), but the pool definition within the DB2CONN specifies threadwait(no), and again there were no TCBs available.
- The transaction was using the pool directly, the pool specifies threadwait(no) and no TCB was available.

System action: The task is abnormally terminated

with a CICS transaction dump.

User response: Determine whether TCBLIMIT should be increased or whether the number of transactions using DB2 at any one instance should be limited using transaction classes.

Module: DFHD2EX1

AD2Z

Explanation: DB2 detected a deadlock and the CICS-DB2 attachment facility attempted a syncpoint rollback command for the transaction as DROLLBACK(YES) was specified for the DB2ENTRY or POOL. The syncpoint rollback command failed. Message DFHDB2070 is output to transient data detailing the transid involved and the EIBRESP2 from the failed syncpoint rollback command.

System action: The transaction is abnormally terminated with a transaction dump.

User response: Examine the eibresp2 value to determine why the syncpoint rollback request failed. One possible reason could be that the transaction running is a DPL server transaction which was DPLed to by a client transaction without specifying the SYNCONRETURN parameter. In this case syncpoints, or syncpoint rollbacks, cannot be taken by the server transaction, so DROLLBACK(YES) is invalid in this case.

Module: DFHD2EX1

AD3A

Explanation: An error (INVALID, DISASTER or unexpected EXCEPTION response) has occurred on a LOCK call to the lock manager (LM) domain made by the CICS-DB2 attachment facility startup program. A console message is output, an exception trace written and, possibly, a system dump taken (depending on the options specified in the dump table).

System action: Startup of the CICS-DB2 interface is terminated, and the interface is closed. The task is abnormally terminated with a CICS transaction dump.

User response: You need further assistance from IBM to resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHD2STR

AD3B

Explanation: An error (INVALID, DISASTER or unexpected EXCEPTION response) has occurred on an UNLOCK call to the lock manager (LM) domain made by the CICS-DB2 Attachment facility startup program. A console message is output, an exception trace written and, possibly, a system dump taken (depending on the options specified in the dump table).

System action: Startup of the CICS-DB2 interface is terminated, and the interface is closed. The task is abnormally terminated with a CICS transaction dump.

User response: You need further assistance from IBM to resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHD2STR

AD3C

Explanation: An error (INVALID, DISASTER response) has occurred on a CONNECT_TO_DB2 function call to the CICS-DB2 Coordinator program DFHD2CO made by the CICS-DB2 Attachment facility startup program. A console message is output, an exception trace written and, possibly, a system dump taken (depending on the options specified in the dump table).

System action: Startup of the CICS-DB2 interface is terminated, and the interface is closed. The task is abnormally terminated with a CICS transaction dump.

User response: You need further assistance from IBM to resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHD2STR

AD3D

Explanation: An unexpected response was received while attempting to delete a record from a temporary storage queue during processing of a DSNC STRT command. A console message is output, an exception trace written and, possibly, a system dump taken (depending on the options specified in the dump table).

System action: The DSNC STRT command fails. The task is abnormally terminated with a CICS transaction dump.

User response: You need further assistance from IBM to resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHD2CM1

AD3E

Explanation: During processing of a DB2 request for the transaction, an identify request was made to identify the calling TCB to DB2. The identify request failed. A console message is output, an exception trace written and, possibly, a system dump taken (depending on the options specified in the dump table).

System action: The DB2 request fails. The task is abnormally terminated with a CICS transaction dump.

User response: Examine the exception trace in the dump to determine why the identify request failed. The CSUB control block is output as part of the exception

trace entry, and it contains a record of all calls to DB2 starting at field CSB_TRACE_ENTRIES_START. The identify request contains eyecatcher "IDEN" and is followed by the DB2 FRB response and reason codes.

Module: DFHD2D2

AD3F

Explanation: During processing of a DB2 request for the transaction, a terminate thread request was made to DB2 which failed. A console message is output, an exception trace written and, possibly, a system dump taken (depending on the options specified in the dump table).

System action: The DB2 request fails. The task is abnormally terminated with a CICS transaction dump.

User response: Examine the exception trace in the dump to determine why the terminate thread request failed. The CSUB control block is output as part of the exception trace entry, and it contains a record of all calls to DB2 starting at field CSB_TRACE_ENTRIES_START. The terminate thread request contains eyecatcher "TERM" and is followed by the DB2 FRB response and reason codes.

Module: DFHD2D2

AD3G

Explanation: An unexpected response was received from an EXEC CICS GETMAIN issued during processing of a CICS-DB2 DSNC command. A console message is output, an exception trace written and, possibly, a system dump taken (depending on the options specified in the dump table).

System action: The DSNC command fails. The task is abnormally terminated with a CICS transaction dump.

User response: You need further assistance from IBM to resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHD2CM1

AD3H

Explanation: The issuing of an EXEC SQL command or IFI call from a Dynamic Plan Exit is not allowed.

System action: The task is abnormally terminated.

User response: Remove any EXEC SQL commands or IFI calls from the Dynamic Plan Exit.

Module: DFHD2EX1

AD3I

Explanation: An unexpected response was received from an EXEC CICS INQUIRE DB2CONN command issued during startup of the CICS-DB2 interface. A console message is output, an exception trace written and, possibly, a system dump taken (depending on the options specified in the dump table).

System action: Startup of the CICS-DB2 interface is terminated, and the interface is closed. The task is abnormally terminated with a CICS transaction dump.

User response: You need further assistance from IBM to resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHD2CM1

AD3J

Explanation: A commit request to DB2, issued during the second phase of syncpoint, failed. A console message is output, an exception trace written and, possibly, a system dump taken (depending on the options specified in the dump table).

System action: The task is abnormally terminated with a CICS transaction dump. CICS maintains a record that the UOW committed pending a future resynchronization request with DB2.

User response: Examine the exception trace in the dump to determine why the commit request failed. The CSUB control block is output as part of the exception trace entry, and it contains a record of all calls to DB2 starting at field CSB_TRACE_ENTRIES_START. The commit request contains eyecatcher "COMM" and is followed by the DB2 FRB response and reason codes.

Module: DFHD2D2

AD3K

Explanation: An abort request to DB2, issued during the second phase of syncpoint, failed. A console message is output, an exception trace written and, possibly, a system dump taken (depending on the options specified in the dump table).

System action: The task is abnormally terminated with a CICS transaction dump. CICS maintains a record that the UOW backed out pending a future resynchronization request with DB2.

User response: Examine the exception trace in the dump to determine why the abort request failed. The CSUB control block is output as part of the exception trace entry, and it contains a record of all calls to DB2 starting at field CSB_TRACE_ENTRIES_START. The abort request contains eyecatcher "ABRT" and is followed by the DB2 FRB response and reason codes.

Module: DFHD2D2

AD3L

Explanation: During processing of a DB2 request for the transaction, an associate request was made to associate the DB2 connection with the calling TCB. The associate request failed. A console message is output, an exception trace written and, possibly, a system dump taken (depending on the options specified in the dump table).

System action: The DB2 request fails. The task is abnormally terminated with a CICS transaction dump.

User response: Examine the exception trace in the dump to determine why the associate request failed. The CSUB control block is output as part of the exception trace entry, and it contains a record of all calls to DB2 starting at field CSB_TRACE_ENTRIES_START. The associate request contains eyecatcher "ASSO" and is followed by the DB2 FRB response and reason codes.

Module: DFHD2D2

AD3M

Explanation: An unexpected error occurred during processing of a DSNC MODIFY command. A console message is output, an exception trace written and, possibly, a system dump taken (depending on the options specified in the dump table).

System action: The DSNC MODIFY command fails. The task is abnormally terminated with a CICS transaction dump.

User response: You need further assistance from IBM to resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHD2CM1

AD3P

Explanation: An unexpected error occurred during processing of a DSNC STOP command. A console message is output, an exception trace written and, possibly, a system dump taken (depending on the options specified in the dump table).

System action: The DSNC STOP command fails. The task is abnormally terminated with a CICS transaction dump.

User response: You need further assistance from IBM to resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHD2CM1

AD3Q

Explanation: An unexpected response was received while attempting to read a record from a temporary storage queue during processing of a DSNC STRT command. A console message is output, an exception trace written and, possibly, a system dump taken (depending on the options specified in the dump table).

System action: The DSNC STRT command fails. The task is abnormally terminated with a CICS transaction dump.

User response: You need further assistance from IBM to resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHD2CM1

AD3R

Explanation: An unexpected response was received while attempting to read a record from a temporary storage queue during startup of the CICS-DB2 interface. A console message is output, an exception trace written and, possibly, a system dump taken (depending on the options specified in the dump table).

System action: Startup of the CICS-DB2 interface is terminated, the interface is closed. The task is abnormally terminated with a CICS transaction dump.

User response: You need further assistance from IBM to resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHD2STR

AD3S

Explanation: An unexpected response was received from an EXEC CICS SET DB2CONN command issued during startup of the CICS-DB2 interface. A console message is output, an exception trace written and, possibly, a system dump taken (depending on the options specified in the dump table).

System action: Startup of the CICS-DB2 interface is terminated, and the interface is closed. The task is abnormally terminated with a CICS transaction dump.

User response: You need further assistance from IBM to resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHD2CM1

AD3T

Explanation: The transaction was unable to obtain a DB2 thread from the pool. Message DFHDB2011 is output to transient data. The transaction was abended because the transaction tried using a DB2ENTRY but all threads were in use on the DB2ENTRY, and despite threadwait(pool) being specified, all threads in the pool

were also in use. The pool definition within the DB2CONN specifies threadwait(no).

System action: The task is abnormally terminated with a CICS transaction dump.

User response: Determine whether more threads should be allocated to the DB2ENTRY or the pool, or whether the number of instances of this transaction should be limited using TRANCLASS.

Module: DFHD2EX1

AD3U

Explanation: An error (INVALID or DISASTER response) has occurred on a locate call to transaction manager (XM) domain to locate a transaction definition. A console message is output, an exception trace written and, possibly, a system dump taken (depending on the options specified in the dump table).

System action: The task is abnormally terminated with a CICS transaction dump.

User response: You need further assistance from IBM to resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHD2EX1

AD3W

Explanation: An unexpected response was received while attempting to write a record to a temporary storage queue during startup of the CICS-DB2 interface. A console message is output, an exception trace written and, possibly, a system dump taken (depending on the options specified in the dump table).

System action: Startup of the CICS-DB2 interface is terminated, and the interface is closed. The task is abnormally terminated with a CICS transaction dump.

User response: You need further assistance from IBM to resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHD2STR

AD3X

Explanation: An unexpected response was received while attempting to write a record to a temporary storage queue during processing of a DSNC STRT command. A console message is output, an exception trace written and, possibly, a system dump taken (depending on the options specified in the dump table).

System action: The DSNC STRT command fails. The task is abnormally terminated with a CICS transaction dump.

User response: You need further assistance from IBM to resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHD2CM1

AD3Z

Explanation: The CICS-DB2 thread TCB processing the DB2 request for this transaction has abended because the DB2 adapter is being shutdown.

System action: The task is abnormally terminated.

User response: If this abend should occur at CICS or DB2 shutdown then it can be ignored, because the DB2 adapter is abending the task as part of shutdown processing, otherwise you will need assistance from IBM.

Module: DFHD2EX1

ADCA

Explanation: This abend is issued if DBCTL returns a non-zero response code when a DL/I request has been issued from an application program.

System action: The transaction is abnormally terminated with a CICS transaction dump.

User response: Look up accompanying message DFHDB8109 that appears on the CDBC transient data destination.

Module: DFHDLIDP

ADCB

Explanation: This abend occurs when DBCTL has notified CICS that a task has issued a DL/I request, but it did not have a PSB scheduled. If your application does have a PSB scheduled then a possible cause for this abend is that the DBCTL STOP THREAD command may have been used to terminate the DBCTL thread that corresponds to this task.

System action: CICS abnormally terminates the transaction with a transaction dump. CICS processing continues.

User response: Check if the DBCTL operator has issued a STOP THREAD command for the task that has abnormally terminated. Look up DBCTL response code 28 in the DBCTL return code section of the IMS Messages and Codes.

Module: DFHDLIDP

ADCC

Explanation: This abend occurs when DBCTL has notified CICS that a task has issued program specification block (PSB) request, but it has a PSB already scheduled. CICS prevents a task from issuing a PSB schedule request to DBCTL when it has already issued a PSB schedule request by returning a PSBSCH response in UIBDLTR. However, in this case it is DBCTL that has rejected the subsequent PSB schedule

request. A possible cause for this abend is a storage over-write.

System action: CICS abnormally terminates the transaction with a transaction dump. CICS processing continues.

User response: Check for any messages issued from your CICS system indicating that storage over-writes have taken place. Look up DBCTL response code 32 in the DBCTL return code section of the IMS Messages and Codes.

Module: DFHDLIDP

ADCD

Explanation: This abend is issued when a deadlock has been detected by IMS and this transaction has been selected for abnormal termination.

This abend can occur when a transaction is accessing IMS resources via DBCTL or via a remote DLI request to a remote CICS region. The remote CICS region can be accessing IMS via DBCTL, or if it is a CICS 4.1 region or earlier, accessing IMS via local DLI.

System action: Access to IMS resources via DBCTL is withdrawn for this transaction. Further attempts to access IMS will result in an AEY9 abend.

CICS abnormally terminates the transaction with a transaction dump. CICS processing continues.

User response: If ADCD abends occur infrequently in your system, no action is required although you may like to consider setting your system up in such a way that, after an ADCD abend is issued, the transaction is automatically restarted. See the *CICS Recovery and Restart Guide* for further information.

If ADCD abends are occurring frequently in your system, you may need to review the design of your applications. Some general techniques for deadlock avoidance are described in the *CICS Recovery and Restart Guide*.

Module: DFHDLIDP

ADCE

Explanation: This abend is issued when the module DFHDBAT returns a nonzero return code in reply to a DL/I request issued from an application program to DBCTL. DFHDBAT is a task related user exit and forms part of the CICS-DBCTL interface. This abend is accompanied by message DFHDB8110.

System action: CICS abnormally terminates the transaction with a transaction dump. CICS processing continues.

User response: Look up the accompanying message DFHDB8110 that appears on the CDBC transient data destination.

Module: DFHDLIDP

ADCF

Explanation: This abend is issued when the module DFHDLIDP detects that the CICS-DBCTL Interface has been configured using a DRA startup table (DFSPZPxx) which specifies option PCBLOC=31, and the application is amode 24.

PCBLOC=31 specifies that the PCB address list and PCBs can be stored above the line. This is incompatible with amode 24 applications.

System action: CICS abnormally terminates the transaction with a transaction dump. CICS processing continues.

User response: Linkedit the application amode 31, or change the DRA startup table option to PCBLOC=24.

Module: DFHDLIDP

ADCI

Explanation: This abend is issued when IMS returns a user abend 3303 response for a DL/I request issued from an application program.

System action: Access to IMS resources via DBCTL is withdrawn for this transaction. Further attempts to access IMS will result in an AEY9 abend.

CICS abnormally terminates the transaction with a transaction dump. CICS processing continues.

User response: Check the description in the IMS Messages and Codes for the meaning of IMS user abend 3303.

Module: DFHDLIDP

ADCJ

Explanation: This abend is issued when an application has been using DBCTL, and while the application was still scheduled to DBCTL, the CICS-DBCTL interface was terminated.

System action: CICS abnormally terminates the transaction with a transaction dump. CICS processing continues.

User response: Check the CDBC transient data destination for messages indicating the reason for termination of the CICS-DBCTL interface. If you do not know where the CDBC transient is, then please check with your system programmer. Check for messages issued from the DBCTL system.

Module: DFHDLIDP

ADCP

Explanation: When checking the DBCTL program specification block (PSB), the external security manager checked the usage of the PSB, and found that

- The user was unauthorized to access the PSB, or
- The PSB was unknown to the external security manager, or
- The user was set to the capability of the default user.

The meaning of the term "user" in the above context depends on the way the transaction was invoked.

- If the transaction is being run from a local terminal, or has been routed from a remote terminal, the user is the terminal user. (For a routed transaction, if PSBCHK=NO is specified in the SIT, or RESSEC=NO is specified in the transaction definition (CEDA DEFINE TRANSACTION command), the security manager does *not* check the terminal user.)
- If the transaction is being run as a result of a request from another CICS MRO region, the user is the owner of the other CICS system (as defined to the external security manager in the JOB statement of the initializing JCL).
- If the transaction is being run as a result of a request from a connected ISC system, the user is defined in the SECURITYNAME operand of the installed CONNECTION definition that defines the link between the remote system and the local system. Ensure that the name in the SECURITYNAME operand is the same as that supplied by the connected CICS system. This will depend upon the type of CONNECTION between the two systems. For further information about this, refer to the *CICS Intercommunication Guide*.

Notes.

By the above definitions, a PSB used by a routed transaction has two users, the terminal user and the communicating region. Therefore, for routed transactions, the external security manager makes two checks, on the terminal user (as qualified in 1 above), and on the communicating region (2 or 3 above).

System action: CICS abnormally terminates the task attempting to schedule the PSB. CICS processing continues.

User response: Ensure that the PSB is defined to the external security manager, and that all users have the correct level of authorization. If the system setup is correct, note the security violation.

Module: DFHDLIDP

ADCQ

Explanation: This abend occurs when an application has issued an EXEC DLI SCHD request for a PSB that contains no DBPCBs, and the SYSSERVE keyword was not specified. This abend also occurs when an application has issued a PCB request for a PSB that contains no DBPCBs, and the IOPCB option was not specified.

System action: The transaction is abnormally terminated with a CICS transaction dump.

User response: Check that the application program has scheduled the appropriate PSB.

Module: DFHDLIDP

ADCR

Explanation: This abend occurs when an application has issued a DL/I request other than a schedule request, and the DBCTL DRA return code of 40 indicates that there was no active communication with DBCTL.

System action: The transaction is abnormally terminated with a CICS transaction dump.

User response: Check the CDBC transient data destination for messages indicating the reason for termination of the CICS-DBCTL interface. If you do not know where the CDBC transient data destination is, check with your system programmer. Check for messages issued from the DBCTL system.

Module: DFHDLIDP

ADCS

Explanation: CICS issued a single-phase commit request to DBCTL and an unexpected response was returned from DBCTL.

System action: CICS issues message DFHDB8119 to transient data queue CDBC, then terminates the task abnormally with a CICS transaction dump.

User response: Message DFHDB8119 shows the unexpected response from DBCTL, along with the recovery token of the LUW involved. The explanation of message DFHDB8119 indicates how the outcome of the LUW can be determined.

Module: DFHDBAT

ADCT

Explanation: A user has attempted to invoke the CICS-DBCTL control transaction from a terminal.

System action: CICS rejects the request.

User response: Do not try to invoke CICS internal transactions directly.

Module: DFHDBCT

ADCV

Explanation: The connection to DBCTL was terminated and then re-established. The failing task had issued a schedule request against an earlier run of DBCTL and is therefore no longer scheduled.

System action: CICS abnormally terminates the transaction with a transaction dump. CICS processing continues.

User response: No action is required, although you may like to consider setting your system up in such a way that, after an abend ADCV is issued, the transaction is automatically restarted.

Module: DFHDLIDP

ADDA

Explanation: An error (INVALID or DISASTER response) has occurred on a call to the storage manager domain. The domain that detected the original error provides an exception trace, a console message, and possibly a system dump (depending on the options in the dump table).

System action: The task is abnormally terminated with a CICS transaction dump (depending on the options in the dump table).

User response: See related message from the domain that detected the original error.

Module: DFHDBME, DFHDLI, DFHDLIDP

ADDB

Explanation: An error (INVALID or DISASTER response) has occurred on a call to the catalog (CC) domain. The domain that detected the original error provides an exception trace, a console message, and possibly a system dump (depending on the options in the dump table).

System action: The task is abnormally terminated with a CICS transaction dump (depending on the options in the dump table).

User response: See related message from the domain that detected the original error.

Module: DFHDBCON, DFHDBDSC

ADDC

Explanation: An error (INVALID or DISASTER response) has occurred on a call to the loader (LD) domain. The domain that detected the original error will have provided an exception trace, a console message, and possibly a system dump (depending on the options in the dump table).

System action: The task is abnormally terminated with a CICS transaction dump (depending on the options in the dump table).

User response: See related message from the domain that detected the original error.

Module: DFHDBCON, DFHDBDI

ADDI

Explanation: CICS has been notified of a DBCTL failure. However, it has been unable to complete the search for a DBCTL alternate. This is possibly due to an unexpected return code from an IEFSSREQ request.

System action: A CICS transaction dump is produced. CICS continues as if no XRF DBCTL alternate has been found. This abend is accompanied by message DFHDX8323.

User response: Refer to message DFHDX8323 for further information. It may be necessary to restart DBCTL manually.

Module: DFHDBCT

ADDJ

Explanation: CICS has failed to connect to DBCTL because program DFHDBAT could not be ENABLED.

System action: A CICS transaction dump is produced. The state of the CICS/DBCTL interface remains not connected.

User response: Refer to the transaction dump to determine why the ENABLE failed.

Module: DFHDBCON

ADDK

Explanation: CICS failed to obtain or release a lock on either the Global Work Area (GWA) or the DBCTL Global Block (DGB) of the adapter.

System action: The task is abnormally terminated with a CICS transaction dump, depending on the options in the dump table.

User response: Refer to the transaction dump to determine why the lock failed.

Module: DFHDBAT

ADEF

Explanation: A severe error has been encountered when executing transaction CLS3.

System action: CLS3 is abnormally terminated with a transaction dump. CICS issues message DFHZC4948.

User response: See message DFHZC4948 for further guidance.

Module: DFHCLS3

ADIR

Explanation: The abend code is issued for either of the following reasons
- A DFHDI or DFHBMS request was issued when the DFHDIP program was generated as a dummy.
- A DFHDI TYPE=RECEIVE or TYPE=NOTE was attempted but the transaction identification did not specify either INBFMH=DIP or INBFMH=ALL.

System action: A CICS transaction dump is provided to assist in problem determination.

User response: Either generate a DFHDIP program into the system or specify INBFMH correctly on the profile definition.

Module: DFHDIP

ADIS

Explanation: EXEC CICS ISSUE SEND request has been issued from a task that has a non-terminal principal facility.

System action: A CICS transaction dump is provided to assist in problem determination.

User response: Use a terminal or device that is properly supported.

Module: DFHEDI

ADLE

Explanation: A DL/I request was made for a remote database, but the system named in the remote PDIR entry was unknown to CICS, that is, not specified in a DFHTCT TYPE=SYSTEM macro or CEDA DEFINE CONNECTION command.

System action: The transaction is abnormally terminated with a CICS transaction dump.

User response: Either correct the SYSIDNT parameter in the relevant DFHDLPSB entry, or define the remote system to CICS with a DFHTCT TYPE=SYSTEM macro or a CEDA DEFINE CONNECTION command.

Module: DFHDLIRP

ADLF

Explanation: A DL/I request was made for a remote database, but the link to the system on which the database resides was down.

System action: The transaction is abnormally terminated with a CICS transaction dump.

User response: Notify the system programmer. Once the link to the remote system has been reestablished, resubmit the transaction.

Module: DFHDLIRP

ADLG

Explanation: A DL/I request was made for a remote database, but there were errors in the DL/I argument list that was provided by the user.

System action: The transaction is abnormally terminated with a CICS transaction dump.

User response: Ensure that any errors in the DL/I argument are corrected.

Module: DFHDLIRP

ADLP

Explanation: When checking the DLI program specification block (PSB), the external security manager checked the usage of the PSB, and found that
- The user was unauthorized to access the PSB, or
- The PSB was unknown to the external security manager, or
- The user was set to the capability of the default user.

The meaning of the term "user" in the above context depends on the way the transaction was invoked.

- If the transaction is being run from a local terminal, or has been routed from a remote terminal, the user is the terminal user. (For a routed transaction, if PSBCHK=NO is specified in the SIT, or RESSEC=NO is specified in the transaction definition (CEDA DEFINE TRANSACTION command), the security manager does *not* check the terminal user.)
- If the transaction is being run as a result of a request from another CICS MRO region, the user is the owner of the other CICS system (as defined to the external security manager in the JOB statement of the initializing JCL).
- If the transaction is being run as a result of a request from a connected ISC system, the user is defined in the SECURITYNAME operand of the installed CONNECTION definition that defines the link between the remote system and the local system. Ensure that the name in the SECURITYNAME operand is the same as that supplied by the connected CICS system. This will depend upon the type of CONNECTION between the two systems. For further information about this, refer to the *CICS Intercommunication Guide*.

By the above definitions, a PSB used by a routed transaction has two users, the terminal user and the communicating region. Therefore, for routed transactions, the external security manager makes two checks, on the terminal user (as qualified in 1 above), and on the communicating region (2 or 3 above).

System action: The task attempting to schedule the PSB abnormally terminates.

User response: Ensure that the PSB is defined to the

external security manager, and that all users have the correct level of authorization. If the system setup is correct, note the security violation.

Module: DFHDLIRP

ADMA

Explanation: The alternate CICS task responsible for tracking the DBCTL connection status of the active CICS has received an error from the CICS Availability Manager (CAVM) message input service.

System action: The tracking transaction terminates with a CICS transaction dump. No further action is taken in response to DBCTL status changes. The global exits, XXDFB and XXDTO, are never invoked and no attempt at a DBCTL restart is made in the event of a takeover. This abend is accompanied by DFHDX8331.

User response: Check for any other messages relating the CAVM data set problems. In the event of a takeover, it may be necessary to restart DBCTL manually.

Module: DFHDBCR

ADMB

Explanation: The CICS/XRF DBCTL tracking task has received an unrecognizable message from the CICS/XRF message manager. This abend is preceded by message DFHDX8333.

System action: The CICS/XRF DBCTL tracking task abends.

User response: Refer to the instructions for message DFHDX8333.

Module: DFHDBCR.

ADMD

Explanation: The alternate CICS system task responsible for tracking the DBCTL connection status of the active CICS has been unable to complete its search for a DBCTL alternate, possibly due to an unexpected return code from an IEFSSREQ request.

System action: A CICS transaction dump is produced. The tracking transaction continues as if no DBCTL alternate had been found. This abend is accompanied by message DFHDX8335.

User response: Refer to message DFHDX8335 for further information. It may be necessary to restart DBCTL manually.

Module: DFHDBCR.

ADPA

Explanation: The CICS supplied transaction for managing debugging profiles, CADP, has received a exception response from the file manager, with reason file error. The file manager will have issued a message to the CICS joblog containing a code which indicates the precise nature of the error. For example this abend will be issued if the underlying file DFHDPFMB used by CADP is disabled or doesn't exist.

System action: CICS abends the transaction with a transaction dump.

User response: Examine the CICS joblog for associated messages, correct the problem and retry the CADP transaction.

Module: DFHDPLU

ADPB

Explanation: The CICS supplied transaction for managing debugging profiles, CADP, has received a disaster response from the file manager, with reason internal error. There is an error in the file manager program.

System action: CICS abends the transaction with a transaction dump.

User response: Examine the CICS joblog for associated messages. Contact IBM for assistance with this type of error.

Module: DFHDPLU

ADPC

Explanation: The CICS supplied transaction for managing debugging profiles, CADP, has received a disaster response from the file manager, with reason disaster percolation. There is an error in one of the CICS domains called by the file manager.

System action: CICS abends the transaction with a transaction dump.

User response: Examine the CICS joblog for associated messages. Contact IBM for assistance with this type of error.

Module: DFHDPLU

ADPD

Explanation: The CICS supplied transaction for managing debugging profiles, CADP, has received a purged response from the file manager. reason disaster precolation. It is likely that an underlying request to CICS File Control has timed out because the record that CADP is trying to access, is held up by another transaction. For example this would occur if CECI was bing used to access the underlying file, DFHDPFMB, at the same time as using CADP.

System action: CICS abends the transaction with a transaction dump.

User response: Investigate if there are other tasks running against the file used by CADP.

Module: DFHDPLU

ADPI

Explanation: The CICS supplied program for inactivating all debugging profiles, DFHDPIN, has received a exception response from the file manager, with reason file error. The file manager will have issued a message to the CICS joblog containing a code which indicates the precise nature of the error. For example this abend will be issued if the underlying file DFHDPFMB used by CADP was disabled or deleted whilst DFHDPIN was running.

System action: CICS abends the transaction with a transaction dump.

User response: Examine the CICS joblog for associated messages, correct the problem and retry the CADP transaction.

Module: DFHDPIN

ADPL

Explanation: A server program has issued a command which is restricted in the distributed program link (DPL) environment. Certain API and CPI-RR requests, and the DL/I terminate request are not allowed in the DPL environment. See the *CICS Application Programming Guide* for a list of these restricted commands.

A server program is a program which has been remotely linked, or a program defined to run with the DPL subset.

System action: CICS abends the transaction with a transaction dump.

User response: Remove the restricted commands from the server program, or run the server program locally.

Module: DFHEIP, DFHCPIR, DFHDLI

ADXA

Explanation: The XRF DBCTL state catch-up transaction, DXCU, has failed.

System action: DXCU is abnormally terminated with a CICS transaction dump. This abend is accompanied by DFHDX8319.

User response: Diagnose the error from the CICS transaction dump. Refer to DFHDX8319 for further information.

Module: DFHDXCU

ADXB

Explanation: The XRF DBCTL state catch-up transaction, DXCU, has failed.

System action: DXCU is abnormally terminated with a CICS transaction dump. This abend is accompanied by DFHDX8318.

User response: Use the dump to help diagnose the problem. Refer to DFHDX8318 for further information. Check for any other messages relating to CICS availability manager (CAVM) data set problems.

Module: DFHDXCU

AExx abend codes

AEC1

Explanation: An attempt has been made to use the Command Level Interpreter (CECI) or the Enhanced Master Terminal (CEMT) or an RDO (CEDA, CEDB, CEDC) transaction on a terminal that is not supported.

System action: The task is abnormally terminated with a CICS transaction dump.

User response: Use a terminal that is supported by the Command Level Interpreter, Enhanced Master Terminal, or RDO transaction.

Module: DFHECIP, DFHECSP, DFHEMTP, DFHESTP, DFHEOTP, DFHEDAP

AEC2

Explanation: An attempt has been made to use the Command Level Interpreter (CECI) or the Enhanced Master Terminal (CEMT) or an RDO (CEDA, CEDB, CEDC) transaction on a display terminal of size less than 24 X 80.

System action: The task is abnormally terminated with a CICS transaction dump.

User response: Use a display terminal that is supported by the Command Level Interpreter or Enhanced Master Terminal or RDO transaction.

Module: DFHECIP, DFHECSP, DFHEMTP, DFHESTP, DFHEOTP, DFHEDAP

AEC7

Explanation: Language Environment has encountered an unexpected error during the THREAD INITIALIZATION phase while attempting to execute a Language Environment enabled program. The return code received from Language Environment is placed into the field EIBRESP2.

System action: Message DFHAP1200 is issued and the transaction is abnormally terminated. The program is disabled.

User response: Refer to the error message or messages issued by Language Environment to determine the cause of the problem.

Module: DFHAPLI

AEC8

Explanation: Language Environment has encountered an unexpected error during the RUNUNIT INITIALIZATION phase while attempting to execute a Language Environment enabled program.

System action: The return code received from Language Environment is placed into the field EIBRESP2. Message DFHAP1200 is issued and the transaction is abnormally terminated. The program is disabled.

User response: Refer to the error message or messages issued by Language Environment to determine the cause of the problem.

Module: DFHAPLI

AEC9

Explanation: Language Environment has encountered an unexpected error during the RUNUNIT BEGIN INVOCATION phase while attempting to execute a Language Environment enabled program.

System action: The return code received from Language Environment is placed into the field EIBRESP2. Message DFHAP1200 is issued and the transaction is abnormally terminated. The program is disabled.

User response: Refer to the error message or messages issued by Language Environment to determine the cause of the problem.

Module: DFHAPLI

AECA

Explanation: An attempt has been made to run one of the CICS internal EP adapter transactions, CEPQ or CEPT, as a user transaction.

System action: CICS terminates the task.

User response: Investigate why the attempt was made to run a CICS-supplied EP adapter as a user transaction.

Module: DFHECEAM, DFHECEAT

AECC

Explanation: An error occurred while emitting an event. This problem is likely to have been caused by an error in the specification of the event or in the configuration of the EP adapter.

System action: An exception trace entry is written. The EP adapter task is abnormally terminated with a CICS transaction dump.

User response: Inspect the CICS trace and message log to determine the cause of the failure.

Module: DFHECEAM, DFHECEAS, DFHECEAT

AECE

Explanation: An unexpected error occurred in the event processing deferred filtering task CEPF.

System action: An exception trace entry is written. The CEPF task is abnormally terminated with a CICS transaction dump.

User response: Inspect the CICS trace and message log to determine the cause of the failure.

Module: DFHECDF

AECM

Explanation: An attempt was made to attach a CICS event processing deferred filtering task CEPF, but the transaction was not attached internally by CICS.

System action: An exception trace entry is written. The CEPF task is abnormally terminated.

User response: Investigate why an attempt was made to run a CICS supplied event processing deferred filtering task as a user transaction.

Module: DFHECDF

AECO

Explanation: An unexpected error occurred while emitting an event.

System action: An exception trace entry is written. The EP adapter task is abnormally terminated with a CICS transaction dump.

User response: Inspect the CICS trace and message log to determine the cause of the failure.

Module: DFHECEAM, DFHECEAS, DFHECEAT

AECY

Explanation: The task was purged before a request to the storage manager (SM) domain was able to complete successfully. The domain that first detected the purged condition will have provided an exception trace.

System action: The task is abnormally terminated

with a CICS transaction dump.

User response: Investigate why the task was purged. This is either as a result of a purge from the master terminal operator via the CEMT transaction, or by the task being timed out after waiting for longer than the DTIMOUT (deadlock timeout) value specified for the transaction.

If the master terminal operator purged the task, this may have been in an attempt to clear the system which appeared to be deadlocked for some reason.

If the task was timed out automatically as a result of the DTIMOUT value being exceeded, this may be due to insufficient main storage being available for the number of tasks in the system. If the amount of main storage cannot be increased, reduce the number of tasks in the system to avoid short-on-storage situations. Another possibility is to increase the value of the DTIMOUT option for the transaction.

Module: DFHECEAM, DFHECEAS, DFHECEAT

AECZ

Explanation: An error (INVALID, DISASTER or unexpected EXCEPTION response) has occurred on a call to the storage manager (SM) domain. The domain that detected the original error will have provided an exception trace, a console message and, possibly, a system dump (depending on the options specified in the dump table).

System action: The task is abnormally terminated with a CICS transaction dump.

User response: See the related message produced by the domain that detected the original error.

Module: DFHECEAM, DFHECEAS, DFHECEAT

AED1

Explanation: This abend is produced as a result of either

- An attempt to use the execution diagnostic facility (EDF) on an unsupported terminal,
- Using the temporary storage browse transaction (CEBR) on an unsupported device, or
- An attempt to initiate the temporary storage browse transaction (CEBR) with a non-terminal principal facility.

System action: The task is abnormally terminated with a CICS transaction dump.

User response: Use a terminal or device that is properly supported.

Module: DFHEDFP, DFHEDFBR

AED2

Explanation: The program EDF has terminated a task and placed this abend code in the terminated task's TCA. This occurs because execution of EDF is about to be abnormally terminated. A probable reason for EDF being terminated is that a line, control unit, or a terminal has been put out of service.

System action: The task is abnormally terminated with a CICS transaction dump.

User response: Use a terminal that is supported as a display terminal by EDF. A CICS transaction dump of the task terminated with this abend code is available for review.

Module: DFHEDFX

AED3

Explanation: The program EDF has terminated a task and placed this abend code in the terminated task's TCA. The termination occurs because execution of EDF is about to be abnormally terminated.

One possible cause of an abend in EDF is incorrect data being sent to the terminal by the user task.

System action: The task is abnormally terminated with a CICS transaction dump.

User response: A CICS transaction dump of the terminated task and also a similar dump for EDF, when its termination was abnormally terminated, are available for review.

Module: DFHEDFX

AED4

Explanation: An internal logic error has been detected in EDF module DFHEDFP.

System action: The task is abnormally terminated with a CICS transaction dump.

User response: This indicates a CICS logic error. You need further assistance from IBM to resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHEDFP

AED5

Explanation: An internal logic error was been detected in EDF. Insufficient dynamic storage was pre-allocated.

System action: EDF is terminated abnormally with dumps having dump codes CXSP, RMIN, PAGE, LDIN. The user task continues.

User response: The problem may be avoided by less complex user interactions with EDF. If the problem persists, you may need further assistance. See Part 4 of

the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHEDFD

AED6

Explanation: An internal logic error was detected in EDF.

System action: EDF is terminated abnormally with dumps having dump codes CXSP, RMIN, PAGE, LDIN. The user task continues.

User response: The problem may be avoided by less complex user interactions with EDF. If the problem persists, you may need further assistance. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHEDFU

AED7

Explanation: The installed definition of the transaction CEDF has a TWA size which is too small.

System action: CICS abnormally terminates the transaction with a CICS transaction dump.

User response: If you have an updated copy of the CEDF transaction installed, ensure that you have a TWA size at least as big as the one defined by the IBM supplied definition. If you do not have an updated CEDF you may need further assistance to resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHEDFP

AED8

Explanation: A terminal control error has occurred in DFHEDFX.

System action: The task is abnormally terminated with a CICS transaction dump.

User response: You need further assistance from IBM to resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHEDFX

AED9

Explanation: A temporary storage error has occurred in EDF. This could be caused by an input/output error on temporary storage or because temporary storage data is full.

System action: EDF is abnormally terminated with a CICS transaction dump.

User response: Investigate the reason for the temporary storage request failure. Ensure that the definition of the temporary storage data set is correct.

See the *CICS Problem Determination Guide* for further guidance in dealing with temporary storage problems.

Module: DFHEDFD

AEDA

Explanation: The CEDF transaction has been started with an invalid start code. This could be the result of attempting to start the execution diagnostic facility (EDF) with EXEC CICS START(CEDF).

System action: The task is abnormally terminated with a CICS transaction dump.

User response: Use the transaction dump to determine why the start has failed.

Module: DFHEDFX

AEDB

Explanation: DFHEDFP has been passed an invalid EDFXA. This is an internal CICS error.

System action: The task is abnormally terminated with a CICS transaction dump.

User response: You need further assistance from IBM to resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHEDFX

AEDC

Explanation: The program EDF has terminated because a GETMAIN request to the storage manager failed.

System action: The task is abnormally terminated with a CICS transaction dump.

User response: Use the transaction dump to determine why the request has failed.

Module: DFHEDFX

AEDD

Explanation: CICS has attempted to attach the EDF task to display the user request but the attach has failed.

System action: The task is abnormally terminated with a CICS transaction dump.

User response: Use the transaction dump to determine why the attach has failed.

Module: DFHEDFX

AEDE

Explanation: CICS has suspended the user task to allow the EDF task to complete but an error has occurred while performing the suspend.

System action: The task is abnormally terminated with a CICS transaction dump.

User response: Use the transaction dump to determine why the suspend has failed.

Module: DFHEDFX

AEDF

Explanation: CICS has suspended the user task to allow the EDF task to complete. The user task has been purged while suspended, before control was returned from EDF.

System action: The task is abnormally terminated with a CICS transaction dump.

User response: The task was probably purged by the master terminal operator.

Investigate the reason why the task was purged. This may have been in an attempt to clear the system which appeared to be deadlocked for some reason.

Module: DFHEDFX

AEDG

Explanation: CICS has suspended the user task to allow the EDF task to complete. The user task has gone away while suspended, before control was returned from EDF.

System action: The task is abnormally terminated with a CICS transaction dump.

User response: Use the transaction dump to determine the reason why the task finished before being resumed.

Module: DFHEDFX

AEDH

Explanation: An error occurred when CICS called the Program Manager in order to discover details of the user program that has invoked EDF.

System action: The task is abnormally terminated with a CICS transaction dump.

User response: Use the transaction dump to determine why the call has failed.

Module: DFHEDFX

AEI0

Explanation: PGMIDERR condition not handled.

This is one of a number of abends issued by the EXEC interface program. Because of their similar characteristics these abends are described as a group.

See the description of abend AEIA for further details.

Module: DFHEIP

AEI1

Explanation: TRANSIDERR condition not handled.

This is one of a number of abends issued by the EXEC interface program. Because of their similar characteristics these abends are described as a group.

See the description of abend AEIA for further details.

Module: DFHEIP

AEI2

Explanation: ENDDATA condition not handled.

This is one of a number of abends issued by the EXEC interface program. Because of their similar characteristics these abends are described as a group.

See the description of abend AEIA for further details.

Module: DFHEIP

AEI3

Explanation: INVTSREQ condition not handled.

This is one of a number of abends issued by the EXEC interface program. Because of their similar characteristics these abends are described as a group.

See the description of abend AEIA for further details.

Module: DFHEIP

AEI4

Explanation: EXPIRED condition not handled.

This is one of a number of abends issued by the EXEC interface program. Because of their similar characteristics these abends are described as a group.

See the description of abend AEIA for further details.

Module: DFHEIP

AEI8

Explanation: TSIOERR condition not handled.

This is one of a number of abends issued by the EXEC interface program. Because of their similar characteristics these abends are described as a group.

See the description of abend AEIA for further details.

Module: DFHEIP

AEI9

Explanation: MAPFAIL condition not handled.

This is one of a number of abends issued by the EXEC interface program. Because of their similar characteristics these abends are described as a group.

See the description of abend AEIA for further details.

Module: DFHEIP

AEIA **AEID to AEI9, AEXC, AEXF, AEXG, AEXI to AEXL, AEXV to AEXX, AEX0 to AEX9, AEYA to AEYC, AEYE to AEY3, AEY7, and AEZE to AEZX.**

Explanation: The EXEC interface program issues an abend when an exceptional condition has occurred but the command does not have the RESP option (or NOHANDLE option), or the application program has not executed an EXEC CICS HANDLE CONDITION command for that condition. This will cause DFHEIP to take the system action for the condition in question. In most cases, the system action will be to abend the transaction.

Because of their similar characteristics, the above-named abend codes for the EXEC interface program are described as a group. The codes and their corresponding exceptional conditions are as follows :

Code	Condition
AEIA	ERROR
AEID	EOF
AEIE	EODS
AEIG	INBFMH
AIEH	ENDINPT
AEII	NONVAL
AEIJ	NOSTART
AEIK	TERMIDERR
AEIL	FILENOTFOUND
AEIM	NOTFND
AEIN	DUPREC
AEIO	DUPKEY
AEIP	INVREQ
AEIQ	IOERR
AEIR	NOSPACE
AEIS	NOTOPEN
AEIT	ENDFILE
AEIU	ILLOGIC
AEIV	LENGERR
AEIW	QZERO
AEIZ	ITEMERR
AEI0	PGMIDERR
AEI1	TRANSIDERR
AEI2	ENDDATA
AEI3	INVTSREQ
AEI4	EXPIRED
AEI8	TSIOERR
AEI9	MAPFAIL
AEXC	RESIDERR
AEXF	ESCERROR
AEXG	UOWLNOTFOUND
AEXI	TERMERR
AEXJ	ROLLEDBACK
AEXK	END
AEXL	DISABLED
AEXU	NOTPOSS
AEXV	VOLIDERR
AEXW	TASKIDERR
AEX1	DSNNOTFOUND
AEX2	LOADING
AEX3	MODELIDERR
AEX4	UOWNOTFOUND
AEX5	PARTNERIDERR
AEX6	PROFILEIDERR
AEX7	NETNAMEIDERR
AEX8	LOCKED
AEX9	RECORDBUSY
AEYA	INVERRTERM
AEYB	INVMPSZ
AEYC	IGREQID
AEYE	INVLDC
AEYG	JIDERR
AEYH	QIDERR
AEYJ	DSSTAT
AEYK	SELNERR
AEYL	FUNCERR
AEYM	UNEXPIN
AEYN	NOPASSBKRD
AEYO	NOPASSBKWR

Code	Condition
AEYP	SEGIDERR
AEYQ	SYSIDERR
AEYR	ISCINVREQ
AEYT	ENVDEFERR
AEYU	IGREQCD
AEYV	SESSIONERR
AEYX	USERIDERR
AEYZ	CBIDERR
AEY0	INVEXITREQ
AEY1	INVPARTNSET
AEY2	INVPARTIN
AEY3	PARTNFALL
AEY7	NOTAUTH
AEZE	CHANGED
AEZF	PROCESSBUSY
AEZG	ACTIVITYBUSY
AEZH	PROCESSERR
AEZI	ACTIVITYERR
AEZJ	CONTAINERERR
AEZK	EVENTERR
AEZL	TOKENERR
AEZM	NOTFINISHED
AEZN	POOLERR
AEZO	TIMERERR
AEXP	SYMBOLERR
AEZQ	TEMPLATERR
AEZR	NOTSUPERUSER
AEZS	CSDERR
AEZT	DUPRES
AEZU	RESUNAVAIL
AEZV	CHANNELERR
AEZW	CCSIDERR
AEZX	TIMEDOUT
AEZY	CODEPAGEERR

System action: The transaction is abnormally terminated with a CICS transaction dump.

User response: Change the application program either to prevent the condition recurring, to check it by using the RESP option, or to handle the condition when it does occur (by using the EXEC CICS HANDLE CONDITION command). If necessary, use the contents of the EIBRESP2 field or the EIBRCODE in the EIB to assist in determining the cause of the exceptional condition.

Problem determination: The function code of the command that produced the exceptional response and the response code can be found in the EXEC interface block (EIB). The EIB is part of a larger control block, used by DFHEIP, known as the EXEC interface storage block (EIS). The EIS is addressed by the TCAEISA, which is the system part of the TCA + X'90 The EIB is pointed to from the EIS + X'8.

The function code may be located at offset X'1B in the EIB while the response codes may be one of the following at the given offsets

EIBRCODE
X'1D

EIBRESP
X'4C

EIBRESP2
X'50

The *CICS Application Programming Reference* gives translations of the encoded functions and their responses.

Analysis: Because these abend codes are directly related to exceptional conditions that can be specified in HANDLE CONDITION commands, the application programmer should decide whether the condition is one that should be handled by the application (for example ENDFILE), or one that requires modifications to the application or CICS tables. :i1.DFHEIP abend codes

Module: DFHEIP

AEID

Explanation: EOF condition not handled.

This is one of a number of abends issued by the EXEC interface program. Because of their similar characteristics these abends are described as a group.

See the description of abend AEIA for further details.

Module: DFHEIP

AEIE

Explanation: EODS condition not handled.

This is one of a number of abends issued by the EXEC interface program. Because of their similar characteristics these abends are described as a group.

See the description of abend AEIA for further details.

Module: DFHEIP

AEIG

Explanation: INBFMH condition not handled.

This is one of a number of abends issued by the EXEC interface program. Because of their similar characteristics these abends are described as a group.

See the description of abend AEIA for further details.

Module: DFHEIP

AEIH

Explanation: ENDINPT condition not handled.

This is one of a number of abends issued by the EXEC interface program. Because of their similar characteristics these abends are described as a group.

See the description of abend AEIA for further details.

Module: DFHEIP

AEII

Explanation: NONVAL condition not handled.

This is one of a number of abends issued by the EXEC interface program. Because of their similar characteristics these abends are described as a group.

See the description of abend AEIA for further details.

Module: DFHEIP

AEIJ

Explanation: NOSTART condition not handled.

This is one of a number of abends issued by the EXEC interface program. Because of their similar characteristics these abends are described as a group.

See the description of abend AEIA for further details.

Module: DFHEIP

AEIK

Explanation: TERMIDERR condition not handled.

This is one of a number of abends issued by the EXEC interface program. Because of their similar characteristics these abends are described as a group.

See the description of abend AEIA for further details.

Module: DFHEIP

AEIL

Explanation: FILENOTFOUND condition not handled.

This is one of a number of abends issued by the EXEC interface program. Because of their similar characteristics these abends are described as a group.

See the description of abend AEIA for further details.

Module: DFHEIP

AEIM

Explanation: NOTFND condition not handled.

This is one of a number of abends issued by the EXEC interface program. Because of their similar characteristics these abends are described as a group.

See the description of abend AEIA for further details.

Module: DFHEIP

AEIN

Explanation: DUPREC condition not handled.

This is one of a number of abends issued by the EXEC interface program. Because of their similar characteristics these abends are described as a group.

See the description of abend AEIA for further details.

Module: DFHEIP

AEIO

Explanation: DUPKEY condition not handled.

This is one of a number of abends issued by the EXEC interface program. Because of their similar characteristics these abends are described as a group.

See the description of abend AEIA for further details.

Module: DFHEIP

AEIP

Explanation: INVREQ condition not handled.

This is one of a number of abends issued by the EXEC interface program. Because of their similar characteristics these abends are described as a group.

See the description of abend AEIA for further details.

Module: DFHEIP

AEIQ

Explanation: IOERR condition not handled.

This is one of a number of abends issued by the EXEC interface program. Because of their similar characteristics these abends are described as a group.

See the description of abend AEIA for further details.

Module: DFHEIP

AEIR

Explanation: NOSPACE condition not handled.

This is one of a number of abends issued by the EXEC interface program. Because of their similar characteristics these abends are described as a group.

See the description of abend AEIA for further details.

Module: DFHEIP

AEIS

Explanation: NOTOPEN condition not handled.

This is one of a number of abends issued by the EXEC interface program. Because of their similar characteristics these abends are described as a group.

See the description of abend AEIA for further details.

Module: DFHEIP

AEIT

Explanation: ENDFILE condition not handled.

This is one of a number of abends issued by the EXEC interface program. Because of their similar characteristics these abends are described as a group.

See the description of abend AEIA for further details.

Module: DFHEIP

AEIU

Explanation: ILLOGIC condition not handled.

This is one of a number of abends issued by the EXEC interface program. Because of their similar characteristics these abends are described as a group.

See the description of abend AEIA for further details.

Module: DFHEIP

AEIV

Explanation: LENGERR condition not handled.

This is one of a number of abends issued by the EXEC interface program. Because of their similar characteristics these abends are described as a group.

See the description of abend AEIA for further details.

Module: DFHEIP

AEIW

Explanation: QZERO condition not handled.

This is one of a number of abends issued by the EXEC interface program. Because of their similar characteristics these abends are described as a group.

See the description of abend AEIA for further details.

Module: DFHEIP

AEIZ

Explanation: ITEMERR condition not handled.

This is one of a number of abends issued by the EXEC interface program. Because of their similar characteristics these abends are described as a group.

See the description of abend AEIA for further details.

Module: DFHEIP

AELA

Explanation: The executing function has been purged before control could be returned.

System action: The transaction is marked to be abnormally terminated with abend code AELA.

User response: Investigate the reason the task was purged. It was purged either by the master terminal operator, or as a result of a deadlock timeout.

If the task was purged by the master terminal operator, this may have been in an attempt to clear the system which appeared to be deadlocked for some reason.

If the task was timed out automatically as a result of the DTIMOUT value being exceeded, this may be due to insufficient main storage being available for the number of tasks in the system. If the amount of main storage cannot be increased then the number of tasks in the system should be reduced to avoid short-on-storage situations. Another possibility would be to increase the value of the DTIMOUT option for the transaction.

Module: DFHETL

AELB

Explanation: The executing function has been purged before control could be returned.

System action: The transaction is marked to be abnormally terminated with abend code AELB.

User response: Investigate the reason the task was purged. It was purged either by the master terminal operator, or as a result of a deadlock timeout.

If the task was purged by the master terminal operator, this may have been in an attempt to clear the system which appeared to be deadlocked for some reason.

If the task was timed out automatically as a result of the DTIMOUT value being exceeded, this may be due to insufficient main storage being available for the number of tasks in the system. If the amount of main storage cannot be increased then the number of tasks in the system should be reduced to avoid short-on-storage situations. Another possibility would be to increase the value of the DTIMOUT option for the transaction.

Module: DFHEGL

AEMA

Explanation: An error (INVALID or DISASTER response) has occurred on a call to the application (AP) domain when a request for set user exit active could not be serviced.

System action: The task is abnormally terminated. The domain that detected the original error issues a console message and might provide an exception trace, and depending on the options specified in the dump table, a system dump.

User response: See the associated console message for further guidance.

Module: DFHUEM

AEMB

Explanation: An error (INVALID or DISASTER response) has occurred on a call to the loader (LD) domain. The domain that detected the original error will have provided an exception trace, a console message, and possibly a system dump (depending on the options in the dump table).

System action: The task is abnormally terminated with a CICS transaction dump (depending on the options in the dump table).

User response: See the related message from the domain that detected the original error.

Module: DFHUEM

AEMP

Explanation: The task was purged before a set active request to the application (AP) domain was able to complete successfully. The domain that first detected the purged condition may provide an exception trace.

System action: The task is abnormally terminated with a CICS transaction dump.

User response: Investigate why the task was purged. This is either as a result of a purge from the master terminal operator via the CEMT transaction, or by the task being timed out after waiting for longer than the DTIMOUT (deadlock timeout) value specified for the transaction.

If the master terminal operator purged the task, this may have been in an attempt to clear the system which appeared to be deadlocked for some reason.

If the task was timed out automatically as a result of the DTIMOUT value being exceeded, this may be due to insufficient main storage being available for the number of tasks in the system. If the amount of main storage cannot be increased, reduce the number of tasks in the system to avoid short-on-storage situations. Another possibility is to increase the value of the DTIMOUT option for the transaction.

Module: DFHUEM

AEMQ

Explanation: The task was purged before an IDENTIFY_PROGRAM request to the loader (LD) domain was able to complete successfully. The domain that first detected the purged condition provides an exception trace.

System action: The task is abnormally terminated with a CICS transaction dump (depending on the options in the dump table).

User response: Investigate why the task was purged. This is either as a result of a purge from the master terminal operator via the CEMT transaction, or by the task being timed out after waiting for longer than the DTIMOUT (deadlock timeout) value specified for the transaction.

If the master terminal operator purged the task, this may have been in an attempt to clear the system which appeared to be deadlocked for some reason.

If the task was timed out automatically as a result of the DTIMOUT value being exceeded, this may be due to insufficient main storage being available for the number of tasks in the system. If the amount of main storage cannot be increased, reduce the number of tasks in the system to avoid short-on-storage situations. Another possibility is to increase the value of the DTIMOUT option for the transaction.

Module: DFHUEM

AEPD

Explanation: An unexpected error occurred while dispatching events.

System action: An exception trace entry is written. The EP dispatcher task is abnormally terminated with a CICS transaction dump.

User response: Inspect the CICS trace and message log to determine the cause of the failure.

Module: DFHEPDS

AEPM

Explanation: An attempt was made to attach a CICS EP dispatcher task, but the transaction was not attached internally by CICS.

System action: An exception trace is written. The EP dispatcher task is abnormally terminated.

User response: Investigate why the attempt was made to run a CICS-supplied EP dispatcher task as a user transaction.

Module: DFHEPDS, DFHEPSY

AEPO

Explanation: An unexpected error occurred in the EP dispatcher event queue server task.

System action: An exception trace entry is written. The EP dispatcher task is abnormally terminated with a CICS transaction dump.

User response: Inspect the CICS trace and message log to determine the cause of the failure.

Module: DFHEPSY

AETA

Explanation: A CICS transaction has issued a non-CICS command via an application "stub" (an expansion of a DFHRMCAL macro). Program DFHERM has determined that the exit has been disabled since the previous DFHRMCAL request was issued from the transaction.

System action: The task is abnormally terminated with a transaction dump

User response: Notify your system programmer.

Module: DFHERM

AETC

Explanation: A CICS transaction has issued a non-CICS command via an application "stub" (an expansion of a DFHRMCAL macro). However, the task-related user exit (TRUE) is not known to program manager.

System action: The task is abnormally terminated with a transaction dump

User response: Ensure that the TRUE as identified to the DFHRMCAL macro has been correctly defined to CICS.

Module: DFHERM

AETF

Explanation: The task was purged before a request to the storage manager (SM) domain was able to complete successfully. The domain that first detected the purged condition will have provided an exception trace.

System action: The task is abnormally terminated with a CICS transaction dump.

User response: Investigate why the task was purged. This is either as a result of a purge from the master terminal operator via the CEMT transaction, or by the task being timed out after waiting for longer than the DTIMOUT (deadlock timeout) value specified for the transaction.

If the master terminal operator purged the task, this may have been in an attempt to clear the system which appeared to be deadlocked for some reason.

If the task was timed out automatically as a result of the DTIMOUT value being exceeded, this may be due to insufficient main storage being available for the number of tasks in the system. If the amount of main storage cannot be increased, reduce the number of tasks in the system to avoid short-on-storage situations. Another possibility is to increase the value of the DTIMOUT option for the transaction.

Module: DFHERM

AETG

Explanation: An error (INVALID, DISASTER or unexpected EXCEPTION response) has occurred on a call to the storage manager (SM) domain. The domain that detected the original error will have provided an exception trace, a console message and, possibly, a system dump (depending on the options specified in the dump table).

System action: The task is abnormally terminated with a CICS transaction dump.

User response: See the related message produced by the domain that detected the original error.

Module: DFHERM

AETH

Explanation: The task was purged before a request to the storage manager (SM) domain was able to complete successfully. The domain that first detected the purged condition will have provided an exception trace.

System action: The task is abnormally terminated with a CICS transaction dump.

User response: Investigate why the task was purged. This is either as a result of a purge from the master terminal operator via the CEMT transaction, or by the task being timed out after waiting for longer than the DTIMOUT (deadlock timeout) value specified for the transaction.

If the master terminal operator purged the task, this may have been in an attempt to clear the system which appeared to be deadlocked for some reason.

If the task was timed out automatically as a result of the DTIMOUT value being exceeded, this may be due to insufficient main storage being available for the number of tasks in the system. If the amount of main storage cannot be increased, reduce the number of tasks in the system to avoid short-on-storage situations. Another possibility is to increase the value of the DTIMOUT option for the transaction.

Module: DFHERM

AETI

Explanation: An error (INVALID, DISASTER or unexpected EXCEPTION response) has occurred on a call to the storage manager (SM) domain. The domain that detected the original error will have provided an exception trace, a console message and, possibly, a system dump (depending on the options specified in the dump table).

System action: The task is abnormally terminated with a CICS transaction dump.

User response: See the related message produced by the domain that detected the original error.

Module: DFHERM

AETJ

Explanation: An error (EXCEPTION, DISASTER, INVALID, KERNERROR or PURGED) has occurred on an ADD_LINK call to the recovery manager (RM) domain. For errors other than EXCEPTION, the RM domain provides an exception trace, a console message, and possibly a system dump (depending on the options in the dump table).

For all errors, DFHERM provides an exception trace, console message DFHAP0002, and possibly a system dump (depending on the options in the dump table).

System action: The task is abnormally terminated with a CICS transaction dump.

User response: You need further assistance from IBM to resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHERM

AETK

Explanation: An error (EXCEPTION, DISASTER, INVALID, KERNERROR or PURGED) has occurred on an SET_LINK call to the recovery manager (RM) domain. For errors other than EXCEPTION, the RM domain provides an exception trace, a console message, and possibly a system dump (depending on the options in the dump table).

For all errors, DFHERM provides an exception trace, console message DFHAP0002, and possibly a system dump (depending on the options in the dump table).

System action: The task is abnormally terminated with a CICS transaction dump.

User response: You need further assistance from IBM to resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHERM

AETL

Explanation: An error (EXCEPTION, DISASTER, INVALID, KERNERROR or PURGED) has occurred on an SET_UOW call to the recovery manager (RM) domain. For errors other than EXCEPTION, the RM domain provides an exception trace, a console message, and possibly a system dump (depending on the options in the dump table).

For all errors, DFHERM provides an exception trace, console message DFHAP0002, and possibly a system dump (depending on the options in the dump table).

System action: The task is abnormally terminated with a CICS transaction dump.

User response: You need further assistance from IBM to resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHERM

AETM

Explanation: An error (EXCEPTION, DISASTER, INVALID, KERNERROR, or PURGED) has occurred on an INQUIRE_TRANSACTION call to the transaction manager (XM) domain. For errors other than EXCEPTION, the XM domain provides an exception trace, a console message, and possibly a system dump (depending on the options in the dump table).

For all errors, DFHRMSY provides an exception trace, console message DFHAP0002, and possibly a system dump (depending on the options in the dump table).

System action: The task is abnormally terminated with a CICS transaction dump.

User response: You need further assistance from IBM to resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHRMSY

AETN

Explanation: An EXCEPTION response with an unexpected reason occurred on an INITITIATE_RECOVERY call to recovery manager (RM) domain. DFHRMSY provides an exception trace, console message DFHAP0002, and possibly a system dump (depending on the options in the dump table).

System action: The task is abnormally terminated with a CICS transaction dump.

User response: You need further assistance from IBM to resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHRMSY

AETO

Explanation: An error (DISASTER, INVALID, KERNERROR, or PURGED) has occurred on an INITIATE_RECOVERY call to the recovery manager (RM) domain. The RM domain provides an exception trace, a console message, and possibly a system dump (depending on the options in the dump table).

DFHRMSY also provides an exception trace, console message DFHAP0002, and possibly a system dump (depending on the options in the dump table).

System action: The task is abnormally terminated with a CICS transaction dump.

User response: You need further assistance from IBM to resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHRMSY

AETP

Explanation: An error (EXCEPTION, DISASTER, INVALID, KERNERROR, or PURGED) has occurred on an TERMINATE_RECOVERY call to recovery manager (RM) domain. For errors other than EXCEPTION, the RM domain provides an exception trace, a console message, and possibly a system dump (depending on the options in the dump table).

For all errors, DFHRMSY provides an exception trace, console message DFHAP0002, and possibly a system dump (depending on the options in the dump table).

System action: The task is abnormally terminated with a CICS transaction dump.

User response: You need further assistance from IBM to resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHRMSY

AETQ

Explanation: An EXCEPTION response with an unexpected reason occurred on an INQUIRE_UOW call to the recovery manager (RM) domain. DFHRMSY provides an exception trace, console message DFHAP0002, and possibly a system dump (depending on the options in the dump table).

System action: The task is abnormally terminated with a CICS transaction dump.

User response: You need further assistance from IBM to resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHRMSY

AETR

Explanation: An error (DISASTER, INVALID, KERNERROR, or PURGED) has occurred on an INQUIRE_UOW call to the recovery manager (RM) domain. The RM domain provides an exception trace, a console message, and possibly a system dump (depending on the options in the dump table).

DFHRMSY also provides an exception trace, console message DFHAP0002, and possibly a system dump (depending on the options in the dump table).

System action: The task is abnormally terminated with a CICS transaction dump.

User response: You need further assistance from IBM to resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHRMSY

AETS

Explanation: An error (EXCEPTION, DISASTER, INVALID, KERNERROR, or PURGED) has occurred on an INQUIRE_STARTUP call to recovery manager (RM) domain. For errors other than EXCEPTION, the RM domain provides an exception trace, a console message, and possibly a system dump (depending on the options in the dump table).

For all errors, DFHRMSY provides an exception trace, console message DFHAP0002, and possibly a system dump (depending on the options in the dump table).

System action: The task is abnormally terminated with a CICS transaction dump.

User response: You need further assistance from IBM to resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHRMSY

AEX0

Explanation: TCIDERR condition not handled.

This is one of a number of abends issued by the EXEC interface program. Because of their similar characteristics these abends are described as a group.

See the description of abend AEIA for further details.

Module: DFHEIP

AEX1

Explanation: DSNNOTFOUND condition not handled.

This is one of a number of abends issued by the EXEC interface program. Because of their similar characteristics these abends are described as a group.

See the description of abend AEIA for further details.

Module: DFHEIP

AEX2

Explanation: LOADING condition not handled.

This is one of a number of abends issued by the EXEC interface program. Because of their similar characteristics these abends are described as a group.

See the description of abend AEIA for further details.

Module: DFHEIP

AEX3

Explanation: MODELIDERR condition not handled.

This is one of a number of abends issued by the EXEC interface program. Because of their similar characteristics these abends are described as a group.

See the description of abend AEIA for further details.

Module: DFHEIP

AEX4

Explanation: UOWNOTFOUND condition not handled.

This is one of a number of abends issued by the EXEC interface program. Because of their similar characteristics these abends are described as a group.

See the description of abend AEIA for further details.

Module: DFHEIP

AEX5

Explanation: PARTNERIDERR condition not handled.

This is one of a number of abends issued by the EXEC interface program. Because of their similar characteristics these abends are described as a group.

See the description of abend AEIA for further details.

Module: DFHEIP

AEX6

Explanation: PROFILEIDERR condition not handled.

This is one of a number of abends issued by the EXEC interface program. Because of their similar characteristics these abends are described as a group.

See the description of abend AEIA for further details.

Module: DFHEIP

AEX7

Explanation: NETNAMEIDERR condition not handled.

This is one of a number of abends issued by the EXEC interface program. Because of their similar characteristics these abends are described as a group.

See the description of abend AEIA for further details.

Module: DFHEIP

AEX8

Explanation: LOCKED condition not handled.

This is one of a number of abends issued by the EXEC interface program. Because of their similar characteristics these abends are described as a group.

See the description of abend AEIA for further details.

Module: DFHEIP

AEX9

Explanation: RECORDBUSY condition not handled.

This is one of a number of abends issued by the EXEC interface program. Because of their similar characteristics these abends are described as a group.

See the description of abend AEIA for further details.

Module: DFHEIP

AEXC

Explanation: RESIDERR condition not handled.

This is one of a number of abends issued by the EXEC interface program. Because of their similar characteristics these abends are described as a group.

See the description of abend AEIA for further details.

Module: DFHEIP

AEXF

Explanation: ESCERROR condition not handled.

This is one of a number of abends issued by the EXEC interface program. Because of their similar characteristics these abends are described as a group.

See the description of abend AEIA for further details.

Module: DFHEIP

AEXG

Explanation: UOWLNOTFOUND condition not handled.

This is one of a number of abends issued by the EXEC interface program. Because of their similar

characteristics these abends are described as a group.

See the description of abend AEIA for further details.

Module: DFHEIP

AEXI

Explanation: TERMERR condition not handled.

This is one of a number of abends issued by the EXEC interface program. Because of their similar characteristics these abends are described as a group.

See the description of abend AEIA for further details.

Module: DFHEIP

AEXJ

Explanation: ROLLEDBACK condition not handled.

This is one of a number of abends issued by the EXEC interface program. Because of their similar characteristics these abends are described as a group.

See the description of abend AEIA for further details.

Module: DFHEIP

AEXK

Explanation: END condition not handled.

This is one of a number of abends issued by the EXEC interface program. Because of their similar characteristics these abends are described as a group.

See the description of abend AEIA for further details.

Module: DFHEIP

AEXL

Explanation: DISABLED condition not handled.

This is one of a number of abends issued by the EXEC interface program. Because of their similar characteristics these abends are described as a group.

See the description of abend AEIA for further details.

Module: DFHEIP

AEXU

Explanation: During execution of an EXEC CICS command, a NOTPOSS condition has been raised on encountering an invalid parameter. This is probably caused by a previous storage overlay.

System action: The transaction is abnormally terminated with a CICS transaction dump.

User response: Refer to abend AEIA for an explanation of how to determine the function code of the CICS command that caused the abend.

It is not possible to set an EXEC CICS HANDLE CONDITION for NOTPOSS.

The system programmer should investigate the cause of the storage overlay.

Module: DFHEIDTI, DFHEIQDS, DFHEIQSA, DFHEIQSC, DFHEIQSM, DFHEIQSP DFHEIQST, DFHEIQSX

AEXV

Explanation: VOLIDERR condition not handled.

This is one of a number of abends issued by the EXEC interface program. Because of their similar characteristics these abends are described as a group.

See the description of abend AEIA for further details.

Module: DFHEIP

AEXW

Explanation: SUPPRESSED condition not handled.

This is one of a number of abends issued by the EXEC interface program. Because of their similar characteristics these abends are described as a group.

See the description of abend AEIA for further details.

Module: DFHEIP

AEXX

Explanation: TASKIDERR condition not handled.

This is one of a number of abends issued by the EXEC interface program. Because of their similar characteristics these abends are described as a group.

See the description of abend AEIA for further details.

Module: DFHEIP

AEXY

Explanation: The executing transaction has been purged before control could be returned.

This can arise when the transaction is purged while
- A CICS command was being processed
- The transaction was waiting to be dispatched

System action: The transaction is abnormally terminated with a CICS transaction dump.

User response: Contact your system programmer to determine why the transaction has been purged.

Module: DFHACP, DFHAPRX, DFHBEP, DFHBREX, DFHBRIC, DFHBRMS, DFHBRSP, DFHBRTC, DFHBSTS, DFHBSTZO, DFHD2CC, DFHD2EX1, DFHD2EX2, DFHD2STR, DFHEDCP, DFHEDFP, DFHEDI, DFHEEI, DFHEGL, DFHEICRE, DFHEIDEF, DFHEIDEL, DFHEIINS, DFHEIIC, DFHEIP, DFHEIPA, DFHEIPI, DFHEIPRT, DFHEIPSE, DFHEIPSH,

DFHEIQDE, DFHEIQDN, DFHEIQDS, DFHEIQDU, DFHEIQD2, DFHEIQEJ, DFHEIQIR, DFHEIQMS, DFHEIQMT, DFHEIQPF, DFHEIQPI, DFHEIQPN, DFHEIQRQ, DFHEIQSA, DFHEIQSC, DFHEIQSJ, DFHEIQSK, DFHEIQSL, DFHEIQSM, DFHEIQSP, DFHEIQSQ, DFHEIQST, DFHEIQSX, DFHEIQSY, DFHEIQTM, DFHEIQTR, DFHEIQTS, DFHEIQUE, DFHEIQVT, DFHEIQWB, DFHEIQWR, DFHEIUOW, DFHEIWB, DFHEKC, DFHEMS, DFHEOP, DFHEPC, DFHERM, DFHESC, DFHESE, DFHESN, DFHETC, DFHETL, DFHETRX, DFHTACP, DFHTFP, DFHTIEM, DFHUEM, DFHWBTC, DFHXMBR, DFHXTP, DFHZATS, DFHZNCA, DFHZNCE, DFHZTSP, DFHZXQO, DFHZXST

AEXZ

Explanation: A command has failed due to a serious failure in a CICS component (resource manager).

System action: The transaction is abnormally terminated with abend code AEXZ. CICS takes a transaction dump, unless module DFHDUIO is not loaded.

User response: Use the transaction dump to determine the cause of the failure. For further assistance, or if module DFHDUIO is not loaded and no transaction dump is available, contact your system programmer.

Module: DFHACP, DFHAPRX, DFHBEP, DFHBREX, DFHBRIC, DFHBRMS, DFHBRSP, DFHBRTC, DFHBSTS, DFHBSTZO, DFHCDKRN, DFHEDCP, DFHEDFP, DFHEDI, DFHEEI, DFHEGL, DFHEIACQ, DFHEICRE, DFHEICRE, DFHEIDEF, DFHEIDEL, DFHEIINS, DFHEIIC, DFHEIP, DFHEIPA, DFHEIPI, DFHEIPRT, DFHEIPSE, DFHEIPSH, DFHEIQDE, DFHEIQDN, DFHEIQDS, DFHEIQDU, DFHEIQD2, DFHEIQEJ, DFHEIQIR, DFHEIQMS, DFHEIQMT, DFHEIQPF, DFHEIQPI, DFHEIQPN, DFHEIQRQ, DFHEIQSA, DFHEIQSC, DFHEIQSJ, DFHEIQSK, DFHEIQSL, DFHEIQSM, DFHEIQSP, DFHEIQSQ, DFHEIQST, DFHEIQSX, DFHEIQSY, DFHEIQTM, DFHEIQTR, DFHEIQTS, DFHEIQUE, DFHEIQVT, DFHEIQWB, DFHEIQWR, DFHEIUOW, DFHEIWB, DFHEKC, DFHEMS, DFHEOP, DFHEPC, DFHESC, DFHESE, DFHESN, DFHETC, DFHETL, DFHETRX, DFHFCFL, DFHMQTRU, DFHSJIN, DFHTACP, DFHTFP, DFHTIEM, DFHUEH, DFHUEM, DFHWBTC, DFHXMBR, DFHXTP, DFHZATS, DFHZNCA, DFHZNCE, DFHZTSP, DFHZXQO, DFHZXST

AEY0

Explanation: INVEXITREQ condition not handled.

This is one of a number of abends issued by the EXEC interface program. Because of their similar characteristics these abends are described as a group.

See the description of abend AEIA for further details.

Module: DFHEIP

AEY1

Explanation: INVPARTNSET condition not handled.

This is one of a number of abends issued by the EXEC interface program. Because of their similar characteristics these abends are described as a group.

See the description of abend AEIA for further details.

Module: DFHEIP

AEY2

Explanation: INVPARTN condition not handled.

This is one of a number of abends issued by the EXEC interface program. Because of their similar characteristics these abends are described as a group.

See the description of abend AEIA for further details.

Module: DFHEIP

AEY3

Explanation: PARTNFAIL condition not handled.

This is one of a number of abends issued by the EXEC interface program. Because of their similar characteristics these abends are described as a group.

See the description of abend AEIA for further details.

Module: DFHEIP

AEY6

Explanation: Internal logic error in DFHUEM. This arises when using EXITALL to DISABLE an exit program from all exit points for which it has been enabled. The entire user exit table has been scanned and all associations of the program have been found. But the activation count for the program in its exit program block indicates there should be more associations (for example, the activation count has not been reduced to zero). The user exit table and associated control blocks (EPBs and EPLs) are out of step and have probably been corrupted.

System action: The task is abnormally terminated with a CICS transaction dump.

User response: You need further assistance from IBM to resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHUEM

AEY7

Explanation: NOTAUTH condition not handled.

This is one of a number of abends issued by the EXEC interface program. Because of their similar characteristics these abends are described as a group.

See the description of abend AEIA for further details.

Module: DFHEIP

AEY8

Explanation: No DSA was found on the chain while trying to free dynamic storage for an assembler language program using an EXEC CICS command.

System action: The transaction is abnormally terminated with a CICS transaction dump.

User response: Ensure that the DFHEIENT, DFHEISTG, and DFHEIEND macro invocations are correctly positioned and retry. If the error persists, you will need further assistance. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHEIP

AEY9

Explanation: The AEY9 abend can occur for the following reasons:

- An EXEC CICS command has been issued that is not supported by the EXEC interface program DFHEIP.
- A transaction has issued an EXEC CICS command which is supported in principle by the EXEC interface program DFHEIP, but for which the prerequisite function has not been included in the current CICS start-up.
- A non-CICS command has been issued by an application stub (expansion of a DFHRMCAL macro), and the program DFHERM has detected that the required non-CICS support is not available. For example, an attempt to access DB2 when a DB2CONN resource is not enabled results in this abend.
- An attempt has been made to use remote resources, but the local SYSID has been specified in an EXEC CICS command, or vice versa.
- An attempt has been made to use remote resources, but ISC is not supported.
- An EXEC CICS command contains an invalid AID or CONDITION identifier. This abend indicates that the EXEC CICS command has become corrupted.

System action: The transaction is abnormally terminated with a CICS transaction dump.

User response: Check that the SYSID specified and the resource names were correct. If not, notify the system programmer. Either the command (or an application stub) has become corrupted, or the unavailable function has to be generated or enabled. In exceptionally circumstances, the non-CICS support might have suffered damage and is attempting to withdraw from the CICS system.

Module: DFHEIP, DFHEEI

AEYA

Explanation: INVERRTERM condition not handled.

This is one of a number of abends issued by the EXEC interface program. Because of their similar characteristics these abends are described as a group.

See the description of abend AEIA for further details.

Module: DFHEIP

AEYB

Explanation: INVMPSZ condition not handled.

This is one of a number of abends issued by the EXEC interface program. Because of their similar characteristics these abends are described as a group.

See the description of abend AEIA for further details.

Module: DFHEIP

AEYC

Explanation: IGREQID condition not handled.

This is one of a number of abends issued by the EXEC interface program. Because of their similar characteristics these abends are described as a group.

See the description of abend AEIA for further details.

Module: DFHEIP

AEYD

Explanation: A transaction has requested that CICS access a storage area that the transaction itself could not access. This occurred when an invalid storage area was passed to CICS as an output parameter on an EXEC CICS command.

System action: The transaction is abnormally terminated with a CICS transaction dump.

User response: Examine the trace to find the exception trace entry created by DFHEISR and then identify the parameter in error. If the abend is handled, EXEC CICS ASSIGN ASRASTG, ASRAKEY, ASRASPC, and ASRAREGS give additional information about the abend. At the time of the abend, register 2 points to the storage area at fault.

Change one or more of the following

- Correct the code in error in the transaction issuing the EXEC CICS command in order to supply a valid storage area.
- If storage protection is active, change the EXECKEY on the CEDA definition for the program that issued the EXEC CICS command from USER to CICS.

- If storage protection is active, change the TASKDATAKEY attributes on the transaction definition from CICS to USER.
- If transaction isolation is active, change the ISOLATE attribute on the transaction definition from YES to NO.

Module: DFHSRP

AEYE

Explanation: INVLDC condition not handled.

This is one of a number of abends issued by the EXEC interface program. Because of their similar characteristics these abends are described as a group.

See the description of abend AEIA for further details.

Module: DFHEIP

AEYF

Explanation: A transaction has requested that CICS access a storage area that the transaction itself could not access. This occurred when an invalid storage area was passed to CICS on a PUT CONTAINER or a GET CONTAINER command. The error can occur when

- Either the FROM or INTO address is specified incorrectly.
- The FLENGTH value specifies a value large enough to cause the area to include storage which the transaction can not access.

A common cause of this error is specifying the address of a halfword area in the FLENGTH parameter, which expects a fullword area. This error can arise when a program which previously used commareas, which have halfword lengths, has been modified to use containers which have fullword lengths.

System action: The transaction is abnormally terminated with a CICS transaction dump.

User response: Examine the trace to find the entry trace entry created by DFHEISR and then identify the parameter in error. If the abend is handled, EXEC CICS ASSIGN ASRASTG, ASRAKEY, ASRASPC, and ASRAREGS give additional information about the abend. At the time of the abend, register 2 points to the storage area at fault.

You will most likely need to do the following

- Correct the program in error that issued the EXEC CICS PUT CONTAINER or EXEC CICS GET CONTAINER command. Ensure that it supplies the address of a valid storage area and that it supplies an FLENGTH such that no part of the storage area is inaccessible to the transaction. Ensure that FLENGTH refers to a fullword length.

You may also need to consider changing one or more of the following

- If storage protection is active, change the EXECKEY on the CEDA definition for the program that issued the EXEC CICS command from USER to CICS.
- If storage protection is active, change the TASKDATAKEY attributes on the transaction definition from CICS to USER.
- If transaction isolation is active, change the ISOLATE attribute on the transaction definition from YES to NO.

Module: DFHSRP

AEYG

Explanation: JIDERR condition not handled.

This is one of a number of abends issued by the EXEC interface program. Because of their similar characteristics these abends are described as a group.

See the description of abend AEIA for further details.

Module: DFHEIP

AEYH

Explanation: QIDERR condition not handled.

This is one of a number of abends issued by the EXEC interface program. Because of their similar characteristics these abends are described as a group.

See the description of abend AEIA for further details.

Module: DFHEIP

AEYJ

Explanation: DSSTAT condition not handled.

This is one of a number of abends issued by the EXEC interface program. Because of their similar characteristics these abends are described as a group.

See the description of abend AEIA for further details.

Module: DFHEIP

AEYK

Explanation: SELNERR condition not handled.

This is one of a number of abends issued by the EXEC interface program. Because of their similar characteristics these abends are described as a group.

See the description of abend AEIA for further details.

Module: DFHEIP

AEYL

Explanation: FUNCERR condition not handled.

This is one of a number of abends issued by the EXEC interface program. Because of their similar

characteristics these abends are described as a group.

See the description of abend AEIA for further details.

Module: DFHEIP

AEYM

Explanation: UNEXPIN condition not handled.

This is one of a number of abends issued by the EXEC interface program. Because of their similar characteristics these abends are described as a group.

See the description of abend AEIA for further details.

Module: DFHEIP

AEYN

Explanation: NOPASSBKRD condition not handled.

This is one of a number of abends issued by the EXEC interface program. Because of their similar characteristics these abends are described as a group.

See the description of abend AEIA for further details.

Module: DFHEIP

AEYO

Explanation: NOPASSBKWR condition not handled.

This is one of a number of abends issued by the EXEC interface program. Because of their similar characteristics these abends are described as a group.

See the description of abend AEIA for further details.

Module: DFHEIP

AEYP

Explanation: SEGIDERR condition not handled.

This is one of a number of abends issued by the EXEC interface program. Because of their similar characteristics these abends are described as a group.

See the description of abend AEIA for further details.

Module: DFHEIP

AEYQ

Explanation: SYSIDERR condition not handled.

This is one of a number of abends issued by the EXEC interface program. Because of their similar characteristics these abends are described as a group.

See the description of abend AEIA for further details.

Module: DFHEIP

AEYR

Explanation: ISCINVREQ condition not handled.

This is one of a number of abends issued by the EXEC interface program. Because of their similar characteristics these abends are described as a group.

See the description of abend AEIA for further details.

Module: DFHEIP

AEYT

Explanation: ENVDEFERR condition not handled.

This is one of a number of abends issued by the EXEC interface program. Because of their similar characteristics these abends are described as a group.

See the description of abend AEIA for further details.

Module: DFHEIP

AEYU

Explanation: IGREQCD condition not handled.

This is one of a number of abends issued by the EXEC interface program. Because of their similar characteristics these abends are described as a group.

See the description of abend AEIA for further details.

Module: DFHEIP

AEYV

Explanation: SESSIONERR condition not handled.

This is one of a number of abends issued by the EXEC interface program. Because of their similar characteristics these abends are described as a group.

See the description of abend AEIA for further details.

Module: DFHEIP

AEYX

Explanation: USERIDERR condition not handled.

This is one of a number of abends issued by the EXEC interface program. Because of their similar characteristics these abends are described as a group.

See the description of abend AEIA for further details.

Module: DFHEIP

AEYY

Explanation: NOTALLOC condition not handled.

This is one of a number of abends issued by the EXEC interface program. Because of their similar characteristics these abends are described as a group.

See the description of abend AEIA for further details.

Module: DFHEIP

AEYZ

Explanation: CBIDERR condition not handled.

This is one of a number of abends issued by the EXEC interface program. Because of their similar characteristics these abends are described as a group.

See the description of abend AEIA for further details.

Module: DFHEIP

AEZA

Explanation: A transaction has been defined with a TASKDATALOC(ANY), but the programs within the transaction are running amode 24. The exec interface program is therefore is unable to access the TCA for the application. Furthermore, any reference to the EIB would cause the transaction to fail with an OC4 protection exception.

System action: The transaction is abnormally terminated.

User response: Either redefine and install a new definition for the transaction with TASKDATALOC(BELOW), or relink the programs as amode 31.

Module: DFHEIP

AEZB

Explanation: A transaction has been defined with a TASKDATALOC(ANY), and the application is attempting to call a task related user exit. However the task related user exit has been linkedited AMODE 24 and enabled with the LINKEDITMODE option, thereby directing CICS to invoke it in AMODE 24. An AMODE 24 task related user exit cannot run when the calling application is running with TASKDATALOC(ANY), as this would cause a protection exception, or a storage overwrite.

System action: The transaction is abnormally terminated.

User response: Either redefine and install a new definition for the transaction with TASKDATALOC(BELOW), or modify the task related user exit so that it is invoked in AMODE 31.

Module: DFHERM

AEZC

Explanation: A transaction has been defined with a TASKDATALOC(ANY), but a program within the transaction is defined to run AMODE 24. CICS cannot invoke the AMODE 24 program when the transaction is running with TASKDATALOC(ANY), as this would cause a protection exception, or a storage overwrite.

System action: The transaction is abnormally terminated.

User response: Either redefine and install a new definition for the transaction with TASKDATALOC(BELOW), or relink the program as AMODE 31.

Module: DFHAPLI

AEZD

Explanation: An attempt has been made to run a program defined as EXECKEY(USER) as part of a transaction defined as TASKDATAKEY(CICS). These attributes are incompatible and the transaction is abended. This incompatibility could occur as a result of the program definition being autoinstalled. See the CICS Customization Guide and the CICS Resource Definition Guide for more information about program autoinstall.

System action: The transaction is abnormally terminated. Message DFHAP1226 will show the incompatible program and transaction.

User response: Redefine and install a new definition either for the transaction with TASKDATAKEY(USER), or for the program with EXECKEY(CICS).

If this abend occurs when running a CICS transaction, a possible cause is that you are not using the CICS-supplied definition for the program. If you are using your own copies of CICS-supplied program definitions, they must be defined as EXECKEY(CICS).

Module: DFHAPLI

AEZE

Explanation: CHANGED condition not handled.

This is one of a number of abends issued by the EXEC interface program. Because of their similar characteristics these abends are described as a group.

See the description of abend AEIA for further details.

Module: DFHEIP

AEZF

Explanation: PROCESSBUSY condition not handled.

This is one of a number of abends issued by the EXEC interface program. Because of their similar characteristics these abends are described as a group.

See the description of abend AEIA for further details.

Module: DFHEIP

AEZG

Explanation: ACTIVITYBUSY condition not handled.

This is one of a number of abends issued by the EXEC interface program. Because of their similar characteristics these abends are described as a group.

See the description of abend AEIA for further details.

Module: DFHEIP

AEZH

Explanation: PROCESSERR condition not handled.

This is one of a number of abends issued by the EXEC interface program. Because of their similar characteristics these abends are described as a group.

See the description of abend AEIA for further details.

Module: DFHEIP

AEZI

Explanation: ACTIVITYERR condition not handled.

This is one of a number of abends issued by the EXEC interface program. Because of their similar characteristics these abends are described as a group.

See the description of abend AEIA for further details.

Module: DFHEIP

AEZJ

Explanation: CONTAINERERR condition not handled.

This is one of a number of abends issued by the EXEC interface program. Because of their similar characteristics these abends are described as a group.

See the description of abend AEIA for further details.

Module: DFHEIP

AEZK

Explanation: EVENTERR condition not handled.

This is one of a number of abends issued by the EXEC interface program. Because of their similar characteristics these abends are described as a group.

See the description of abend AEIA for further details.

Module: DFHEIP

AEZL

Explanation: TOKENERR condition not handled.

This is one of a number of abends issued by the EXEC interface program. Because of their similar characteristics these abends are described as a group.

See the description of abend AEIA for further details.

Module: DFHEIP

AEZM

Explanation: NOTFINISHED condition not handled.

This is one of a number of abends issued by the EXEC interface program. Because of their similar characteristics these abends are described as a group.

See the description of abend AEIA for further details.

Module: DFHEIP

AEZN

Explanation: POOLERR condition not handled.

This is one of a number of abends issued by the EXEC interface program. Because of their similar characteristics these abends are described as a group.

See the description of abend AEIA for further details.

Module: DFHEIP

AEZO

Explanation: TIMERERR condition not handled.

This is one of a number of abends issued by the EXEC interface program. Because of their similar characteristics these abends are described as a group.

See the description of abend AEIA for further details.

Module: DFHEIP

AEZP

Explanation: SYMBOLERR condition not handled.

This is one of a number of abends issued by the EXEC interface program. Because of their similar characteristics these abends are described as a group.

See the description of abend AEIA for further details.

Module: DFHEIP

AEZQ

Explanation: TEMPLATERR condition not handled.

This is one of a number of abends issued by the EXEC interface program. Because of their similar characteristics these abends are described as a group.

See the description of abend AEIA for further details.

Module: DFHEIP

AEZR

Explanation: NOTSUPERUSER condition not handled.

This is one of a number of abends issued by the EXEC interface program. Because of their similar characteristics these abends are described as a group.

See the description of abend AEIA for further details.

Module: DFHEIP

AEZS

Explanation: CSDERR condition not handled.

This is one of a number of abends issued by the EXEC interface program. Because of their similar characteristics these abends are described as a group.

See the description of abend AEIA for further details.

Module: DFHEIP

AEZT

Explanation: DUPRES condition not handled.

This is one of a number of abends issued by the EXEC interface program. Because of their similar characteristics these abends are described as a group.

See the description of abend AEIA for further details.

Module: DFHEIP

AEZU

Explanation: RESUNAVAIL condition not handled.

This is one of a number of abends issued by the EXEC interface program. Because of their similar characteristics these abends are described as a group.

See the description of abend AEIA for further details.

Module: DFHEIP

AEZV

Explanation: CHANNELERR condition not handled.

This is one of a number of abends issued by the EXEC interface program. Because of their similar characteristics these abends are described as a group.

See the description of abend AEIA for further details.

Module: DFHEIP

AEZW

Explanation: CCSIDERR condition not handled.

This is one of a number of abends issued by the EXEC interface program. Because of their similar characteristics these abends are described as a group.

See the description of abend AEIA for further details.

Module: DFHEIP

AEZX

Explanation: TIMEDOUT condition not handled.

This is one of a number of abends issued by the EXEC interface program. Because of their similar characteristics these abends are described as a group.

See the description of abend AEIA for further details.

Module: DFHEIP

AEZY

Explanation: CODEPAGEERR condition not handled.

This is one of a number of abends issued by the EXEC interface program. Because of their similar characteristics these abends are described as a group.

See the description of abend AEIA for further details.

Module: DFHEIP

AFxx abend codes

AFC0

Explanation: An attempt has been made to update a file after file control restart failed.

System action: The transaction is abnormally terminated with a transaction dump.

User response: Determine the cause of the failure in file control restart. Restart CICS.

Module: DFHEIFC, DFHDMPCA

AFC2

Explanation: DFHFCU issued a call to DFHFCFS to open a file. A disastrous error was returned from DFHFCFS.

System action: The task is abnormally terminated with a CICS transaction dump.

At the time the disastrous error is detected, CICS writes a message to the console, records an exception trace entry and takes a system dump.

CICS processing continues.

User response: The system programmer should examine the trace, the system dump and any related CICS messages to identify the cause of the error.

Module: DFHFCU

AFC7

Explanation: The CICS definition file (CSD) manager (DFHDMPCA) issued a request to DFHFCFS to enable, open or close the DFHCSD file. A “disastrous error” response was returned from DFHFCFS to DFHDMPCA.

System action: The task is abnormally terminated with a CICS transaction dump.

At the time the disastrous error is detected, CICS writes a message to the console, records an exception trace entry and takes a system dump.

CICS processing continues.

User response: The system programmer should examine the trace, the system dump and any related CICS messages to identify the cause of the error.

Module: DFHDMPCA

AFCB

Explanation: Module DFHEIFC issued a resource level security check (RSLC) request to module DFHXSRC and received a response other than OK or EXCEPTION.

System action: The transaction is abnormally terminated with a transaction dump.

User response: Examine the trace to find the exception trace entry created by DFHXSRC at the time of the error. Use this trace entry to determine the cause of the return code from DFHXSRC.

Module: DFHEIFC

AFCC

Explanation: An internal logic error was detected when calling the file control request processing module DFHFCFR. Either DFHFCFR returned an INVALID response to its caller indicating an error in the caller's parameter list, or DFHFCFR passed back a return code that was not recognized by its caller.

System action: The transaction is abnormally terminated with a transaction dump.

User response: You need further assistance from IBM to resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHEIFC, DFHDMPCA

AFCE

Explanation: A GETMAIN for FFLE storage has failed.

System action: The transaction is abnormally terminated with a transaction dump.

User response: Retry the failed transaction.

Module: DFHEIFC

AFCF

Explanation: A deadlock has been detected between two or more tasks issuing file control requests.

System action: The task that would have entered deadlock is abended with a CICS transaction dump.

User response: Examine this transaction and other transactions in the system that update the same files to find the cause of the deadlock, then correct the error.

When transactions update several files within the same unit of work, all transactions should update these files in the same order. A transaction that abends AFCF may be retried by specifying RESTART(YES) in the transaction definition and by coding a suitable DFHREST program.

Module: DFHEIFC, DFHDMPCA

AFCG

Explanation: A transaction has issued a sequence of file control requests that would cause the file to deadlock itself. This response arises for different reasons depending upon the file type.

If the file is being accessed in non-RLS mode, the response is caused by the transaction making conflicting requests against the same CI. For example, if the file is being accessed using LSR, a self deadlock will arise when an attempt is made to read a record that is in the same CI as a record that is the subject of a READ UPDATE or WRITE MASSINSERT request issued by the same transaction.

If the file is accessed in RLS mode there is no CI locking, but self deadlock responses can still arise. They are caused by sequences of requests that are either logically meaningless or which cannot be performed by VSAM RLS.

With VSAM RLS the most likely causes of this abend are as follows

- Two successive READ UPDATE requests against the same record by the same transaction without an intervening REWRITE, DELETE or UNLOCK command.

  This is an incorrect use of file control requests.
- A transaction has created a record by WRITE MASSINSERT and then, without terminating the WRITE MASSINSERT sequence by issuing an UNLOCK request, the same transaction has attempted to modify the same record by issuing a READ UPDATE or DELETE request.

  This sequence of requests fails if VSAM has not written the record out to disk. The only way to guarantee that the record has been written to disk is to issue the UNLOCK request.
- A transaction has updated or deleted a record using a browse for update sequence and then, without terminating the browse for update sequence by

issuing an ENDBR request, the same transaction has attempted to modify the same record by issuing a separate READ UPDATE or DELETE or WRITE request.

This sequence of requests fails if VSAM has not written the record out to disk. The only way to guarantee that the record has been written to disk is to issue the ENDBR request.

If the file is used to access a coupling facility data table, then self deadlock responses are caused by sequences of requests that are either logically meaningless or which cannot be performed by coupling facility data tables support.

For coupling facility data tables, the most likely cause of this abend is as follows

- Two successive READ UPDATE requests have been issued against the same record by the same transaction without an intervening REWRITE, DELETE or UNLOCK command.

  This is an incorrect use of file control requests.

System action: The task that would have entered deadlock is abended with a CICS transaction dump.

User response: Examine the previous requests made by this transaction against this file to identify the cause of the deadlock, then correct the error. In some cases (particularly when the file is being accessed in RLS mode or is using a coupling facility data table) this abend may indicate a programming error in the program that issued the file control requests.

Module: DFHEIFC, DFHDMPCA

AFCH

Explanation: The transaction has issued a request for a remote shared data table for which it has an active browse, but in the meantime the table has been disabled or closed by the owning CICS system, or the owning CICS system has failed.

System action: The requesting transaction abends with a transaction dump.

CICS continues normally.

User response: In the application owning region, take whatever action normally follows the issue of a FORCE request in, or the failure of, the file owning CICS system.

See the *CICS Shared Data Tables Guide* for further guidance.

Module: DFHEIFC

AFCI

Explanation: The transaction issued a file request resulting in a call to the main file control program (DFHFCFR). During the processing of the request the transaction was purged. That is, the transaction was the subject of an explicit PURGE or FORCEPURGE request, was timed out, or was selected by CICS for termination in an attempt to alleviate an SOS condition.

System action: A CICS transaction dump is issued with abend code AFCI.

A "purged" response is returned from DFHFCFR to its caller. The transaction issuing the file control request will eventually issue an AFCY abend with a further transaction dump.

User response: In some instances, for example if the transaction was explicitly purged, no further action is necessary.

Otherwise examine the exception trace and the transaction dump to identify the point at which the purge occurred.

Module: DFHFCFR

AFCJ

Explanation: DFHFCU issued a call to DFHFCFS to open a file. A purged error was returned from DFHFCFS because the task has been waiting for a resource longer than the DTIMEOUT interval specified for the CSFU transaction.

System action: The task is abnormally terminated with a CICS transaction dump. CICS processing continues.

User response: Examine the dump to determine the cause of the error. A system dump can be produced by adding the appropriate dump table entry using the CEMT SET TRDUMPCODE command.

Module: DFHFCU

AFCK

Explanation: The transaction issued a file update request (READ UPDATE, WRITE or DELETE) against an RLS mode data set for which a DFSMSdss non-BWO backup was in progress.

System action: The transaction is abnormally terminated with a CICS transaction dump. CICS processing continues.

User response: All new file update requests are prohibited when a non-BWO backup is in progress for an RLS mode data set. This restriction is automatically lifted when the backup completes. (A non-BWO backup is any type of backup operation other than a Backup While Open backup.) When the backup has completed, retry the transaction.

Module: DFHDMPCA, DFHEIFC

AFCL

Explanation: During the loading of a Shared Data Table by the CFTL transaction, a call to the CICS Transaction Manager has returned a response (such as DISASTER) after which normal processing could not continue.

System action: Message DFHFC0949 is issued. Loading of the data table is terminated and CFTL abends.

User response: Refer to the description of the message for further information and guidance.

Module: DFHDTLX

AFCM

Explanation: During the loading of a data table by the CFTL transaction, an abend was detected, or a domain call returned a response (such as DISASTER) after which normal processing could not continue.

System action: A message is issued (one of DFHFC0945, DFHFC0946, or DFHFC0947). Loading of the data table is terminated and CFTL abends.

User response: If this abend is produced as a result of an abend during loading, message DFHFC0945 is issued. If it is a result of a domain call failure, depending on which domain the failure was returned by, one of the messages DFHFC0946 or DFHFC0947 is issued. Refer to the description of the message for further information and guidance.

Module: DFHDTLX

AFCN

Explanation: The transaction issued a file request that caused file control to attempt to create a journal record but the record was too large for the journal buffer to accommodate. This indicates that a journal referenced in the file definition is using an MVS logstream, which in turn, is using a coupling facility structure which has been defined with a MAXBUFSIZE parameter less than the recommended 64000.

System action: The task is abnormally terminated with a CICS transaction dump.

User response: Redefine the coupling facility structure that the logstream is using with a MAXBUFSIZE parameter of 64000. The journal in error can be the forward recovery log or the journal used for auto-archiving. If the module that detected the error is DFHDMPCA, the error is associated with a journal referenced in the definition of the CSD (DFHCSD).

Module: DFHDMPCA, DFHEIFC

AFCO

Explanation: An attempt was made to attach a transaction specifying DFHDTLX as the program to be given control, but the transaction was not internally attached by CICS.

DFHDTLX is for use by CICS system transaction CFTL. This loads a Shared Data Table.

System action: The transaction is abnormally terminated. CICS processing continues.

User response: Establish why an attempt was made to attach CFTL illegally, or why a transaction definition specified DFHDTLX as the program to be given control.

Module: DFHDTLX

AFCR

Explanation: The program issued a file control request against a file opened in RLS mode. While executing this request, CICS detected that the SMSVSAM server address space had failed.

System action: The task is abnormally terminated with a CICS transaction dump.

CICS disables all further RLS accesses and initiates error recovery.

User response: Retry the transaction when the server is available again

If the SMSVSAM server fails, it should normally automatically restart itself as quickly as possible. If this does not happen, consult the VSAM documentation which provides further guidance on debugging problems in the SMSVSAM server.

Module: DFHEIFC, DFHDMPCA

AFCS

Explanation: The program issued a file control request against a file opened in RLS mode. VSAM was unable to perform this request because the SMSVSAM server address space was inactive.

However, if an offsite restart is being performed (that is, OFFSITE=YES was specified as a system initialization override), this transaction abend is also issued even if the SMSVSAM server address space is active. This is because RLS access is not allowed during an offsite restart for any RLS file control requests other than those issued by transactions which have been attached by CICS to perform RLS recovery work.

System action: The task is abnormally terminated with a CICS transaction dump.

User response: Retry the transaction when the server is available again.

If the SMSVSAM server fails, it should normally

automatically restart itself as quickly as possible. If this does not happen, consult the VSAM documentation which provides further guidance on debugging problems in the SMSVSAM server.

If an offsite restart is being performed, retry the transaction after RLS recovery has been completed when RLS access by user transactions is allowed again.

Module: DFHEIFC, DFHDMPCA

AFCT

Explanation: The program has made a file control request against a file opened in RLS mode. The SMSVSAM server has been recycled since an earlier RLS request from the same unit of work. The same unit of work cannot issue requests against two different instances of the SMSVSAM server. Note that this abend will occur even if the earlier request was not successful.

System action: The task is abnormally terminated with a CICS transaction dump.

User response: Resubmit the transaction.

Module: DFHEIFC, DFHDMPCA

AFCU

Explanation: A program made a file control request against a file that is being accessed in VSAM RLS mode. The underlying data set is in lost locks state. File control requests are not allowed against a data set that is in lost locks state.

System action: The task is abnormally terminated with a CICS transaction dump.

User response: Recovery from lost locks is normally automatic. See the *CICS Recovery and Restart Guide* for a full explanation of lost locks recovery. You will not be able to issue any file control requests against this data set until all systems that owned locks at the time of the lock structure failure have completed their lost locks recovery.

See the *CICS Recovery and Restart Guide* for guidance on how to determine which CICS systems still have lost locks recovery pending, for information on commands that allow you to find the work that these systems have outstanding, and on commands that allow you to force a system to immediately complete lost locks recovery. The commands that force immediate completion of lost locks recovery should only be used as a last resort as they may cause loss of data integrity. It is better to allow the automatic recovery procedures to complete normally.

Module: DFHEIFC, DFHDMPCA

AFCV

Explanation: A request made against a file opened in RLS mode was unable to acquire a record lock. It waited for the lock, but the wait time exceeded the maximum wait time applicable to that request.

System action: The task is abnormally terminated with a CICS transaction dump.

CICS prints message DFHFC0164 and messages DFHFC0165 or DFHFC0175 which identify the transactions or Transactional VSAM units of recovery that were immediately in front of this transaction in the queue for the lock. These transactions or Transactional VSAM units of recovery are the owners of the lock unless a chain of requests for the record has accumulated.

User response: Retry the transaction.

If the problem recurs, see messages DFHFC0164 and DFHFC0165 or DFHFC0175 to determine the transaction or Transactional VSAM unit of recovery that is holding the lock. In most cases the problem lies with the lock owner rather than the transaction that has failed.

Examples of reasons why CICS transactions might cause a timeout

- The transaction that holds the lock has a design error. For example
  - A conversational transaction updates a recoverable record and then issues a terminal control read. It does not issue syncpoint (and therefore does not release the lock) until the user has responded to the terminal control read. It might therefore hold the lock for a considerable period.
  - A transaction updates many records in recoverable files before issuing syncpoint. Try to keep the number of updates made within a unit of work small and to issue frequent syncpoints to ensure that locks are released frequently.
- The system in which the lock holder is running is experiencing severe performance degradation. Investigate the reason for the performance degradation.
- There is a deadlock between RLS and another resource manager. For example one transaction might be holding an RLS lock and waiting for a lock on a transient data queue. The transaction that times out might hold the lock on the transient data queue and be waiting for the RLS lock. RLS can detect deadlocks only when all the locks involved in the deadlock are RLS locks. A deadlock such as this can seem to RLS to be a long wait for a lock and is reported as a timeout. Examine the design of the transactions to determine whether resource manager deadlocks can occur.
- It might be possible for RLS deadlocks to be reported as RLS timeouts if VSAM does not perform deadlock detection until after the timeout value for the request

happened. For example, assume that DEADLOCK_DETECTION is specified as (15,4) in SYS1.PARMLIB, member IGDSMSxx. This means that VSAM does not attempt to detect cross-MVS deadlocks until 4 periods of 15 (that is, 60) seconds have elapsed. If DTIMOUT was not active for the transaction and the SIT specified FTIMEOUT=30, the RLS request times out after 30 seconds, before VSAM has attempted to detect cross-MVS deadlocks. Adjust FTIMEOUT, DTIMOUT, and DEADLOCK_DETECTION to avoid such effects.

DFHFC0175 messages identify Transactional VSAM units of recovery owning an RLS lock. If a Transactional VSAM application is the lock owner it should be investigated to determine why it is holding the lock. Some of the above considerations are similar for Transactional VSAM applications.

Module: DFHEIFC, DFHDMPCA

AFCW

Explanation: The program issued a file control request against a file opened in RLS mode. VSAM RLS detected that this request would cause a deadlock. This transaction is abended in order to break the deadlock chain.

System action: The task is abnormally terminated with a CICS transaction dump.

CICS prints message DFHFC0166 and message(s) DFHFC0167 or DFHFC0177 which identify the other transactions or Transactional VSAM units of recovery in the deadlock chain.

User response: Retry the transaction.

Examine the logic of all the programs involved in the deadlock chain to determine whether they could be improved to avoid possible sources of deadlock. See the *CICS Application Programming Guide* for guidance on how to write programs that avoid deadlocks.

Module: DFHEIFC, DFHDMPCA

AFCY

Explanation: The transaction issued a file request resulting in a call to the main file control program (DFHFCFR). During the processing of the request the transaction was purged (that is, was the subject of an explicit PURGE or FORCEPURGE request, was timed out, or was selected by CICS for termination in an attempt to alleviate an SOS condition). A "purged" response was returned from DFHFCFR to its caller.

System action: The task is abnormally terminated with a CICS transaction dump.

Exception trace entries are made between the point at which the purge is detected and the issuing of the abend.

If a task times out while waiting for a lock on a record in a coupling facility data table, CICS will issue message DFHFC7130 identifying the key of the locked record and the system and unit of work that owns the lock.

A transaction dump with abend code AFCI is taken when the purged response is detected by DFHFCFR.

User response: In some instances, for example if the transaction was explicitly purged, no further action is necessary.

If using a coupling facility data table, look for any relevant DFHFC7130 messages.

Otherwise examine the exception trace and the AFCI/AFCY transaction dumps to identify the point at which the purge occurred.

Module: DFHDMPCA, DFHEIFC

AFCZ

Explanation: The transaction issued a file request resulting in a call to the main file control program (DFHFCFR). A "disastrous error" response was returned from DFHFCFR to its caller.

System action: At the time the error is detected, CICS writes a message to the console, records an exception trace entry, and takes a system dump. The trace and dump identify the point of error.

Subsequently, the task is abnormally terminated with a CICS transaction dump.

User response: The system programmer should use the trace and dumps to determine what the error is, and why it has occurred.

Module: DFHDMPCA, DFHEIFC

AFDA

Explanation: An attempt was made to attach a transaction specifying DFHFCQT as the program to be given control, but the transaction was not internally attached by CICS.

DFHFCQT is for use by CICS system transactions CFQS and CFQR. These provide support for VSAM RLS data set quiesce and unquiesce operations, DFSMSdss BWO and non-BWO backups, and certain other data set related operations.

System action: The transaction is abnormally terminated. CICS processing continues.

User response: Establish why an attempt was made to illegally attach CFQS or CFQR, or why a transaction definition specified DFHFCQT as the program to be given control.

Module: DFHFCQT

AFDB

Explanation: An attempt was made by CICS to internally attach a transaction specifying DFHFCQT as the program to be given control, and the transaction id was other than CFQS or CFQR.

DFHFCQT is for use by CICS system transactions CFQS and CFQR. These provide support for VSAM RLS data set quiesce and unquiesce operations, DFSMSdss BWO and non-BWO backups, and certain other data set related operations.

System action: The transaction is abnormally terminated with a CICS transaction dump. CICS processing continues but it is probable that VSAM RLS data set quiesce support has been lost.

User response: Restart CICS. If the problem reoccurs, a more severe error is indicated. In this case, you will need assistance from IBM. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHFCQT

AFDC

Explanation: CICS system transaction CFQS has failed due to a serious error. An attempt will be made to reattach the transaction. CICS messages should indicate the cause of the error.

CFQS provides support for the initiation of VSAM RLS data set quiesce and unquiesce operations.

System action: CFQS is abnormally terminated with a CICS transaction dump. CFQS is reattached and CICS processing continues.

User response: Check Transient Data Queue CSFL for message DFHFC6028, indicating that the reattach of CFQS was successful. If the reattach fails, VSAM RLS data set quiesce initiation support is lost. If this support is required, CICS must be restarted.

If it is not possible to restore VSAM RLS quiesce initiation support, a more severe error is indicated. In this case, you will need assistance from IBM. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHFCQT

AFDD

Explanation: CICS system transaction CFQR has failed due to a serious error. An attempt will be made to reattach the transaction. CICS messages should indicate the cause of the error.

CFQR provides support for VSAM RLS data set quiesce and unquiesce operations, DFSMSdss BWO and non-BWO backups, and certain other data set related operations.

System action: CFQR is abnormally terminated with a CICS transaction dump. CFQR is reattached and CICS processing continues.

User response: Check Transient Data Queue CSFL for message DFHFC6028, indicating that the reattach of CFQR was successful. If the reattach fails, VSAM RLS data set quiesce support is lost. If this happens, CICS must be restarted.

If it is not possible to restore VSAM RLS quiesce support, a more severe error is indicated. In this case, you will need assistance from IBM. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHFCQT

AFDE

Explanation: An attempt was made to attach a transaction specifying DFHFCRD as the program to be given control, but the transaction was not internally attached by CICS.

DFHFCRD is for use by CICS system transaction CSFR. This provides support for error recovery after a failure of the SMSVSAM server.

System action: The transaction is abnormally terminated. CICS processing continues.

User response: Establish why an attempt was made to illegally attach CSFR, or why a transaction definition specified DFHFCRD as the program to be given control.

Module: DFHFCRD

AFDF

Explanation: An attempt was made to attach a transaction specifying DFHFCOR as the program to be given control, but the transaction was not internally attached by CICS.

DFHFCOR is for use by CICS system transaction CFOR. This provides part of the RLS offsite recovery support.

System action: The transaction is abnormally terminated. CICS processing continues.

User response: Establish why an attempt was made to illegally attach CFOR, or why a transaction definition specified DFHFCOR as the program to be given control.

Module: DFHFCOR

AFDG

Explanation: CICS system transaction CFOR has failed due to a serious error. CICS messages should indicate the cause of the error.

DFHFCOR provides part of the RLS offsite recovery support.

This abend indicates that this CICS system has completed its RLS offsite recovery, but an error occurred either in attempting to issue message DFHFC0575D which reports this fact, or in attempting to process the reply to message DFHFC0575D.

System action: CFOR is abnormally terminated with a CICS transaction dump. CICS processing continues.

User response: If you are using an automated procedure to check for and reply to message DFHFC0575D, then you should shut this CICS down and restart it specifying OFFSITE=YES again. If you are using manual procedures to check for completion of all RLS offsite recovery and to reply to message DFHFC0575D then you can "tick" this CICS off the list of systems which have completed their recovery, but you must ensure that it is not restarted with OFFSITE=NO until all other CICS systems have completed their RLS offsite recovery. Also note that until the system is restarted, RLS access will not be allowed by this system.

Module: DFHFCOR

AFDH

Explanation: VSAM has returned a response indicating that the RLS lock structure in the coupling facility is full. VSAM RLS is unable to create any new locks.

This abend code is usually issued from various CICS systems residing within the same sysplex.

System action: The transaction which issued the VSAM RLS request is abnormally terminated with a CICS transaction dump. CICS processing continues.

User response: Allocate a larger VSAM RLS lock structure and rebuild the RLS structure into the new larger structure. See *z/OS MVS Setting Up a Sysplex* and *z/OS DFSMS Storage Administration Reference* for further details on creating RLS lock structures and rebuilding lock structures.

Module: DFHEIFC, DFHDMPCA

AFDI

Explanation: A call to directory domain failed when trying to locate an fct entry.

System action: The task is abnormally terminated with a CICS transaction dump. CICS processing continues.

User response: Examine the dump to determine the cause of the error. A system dump can be produced by adding the appropriate dump table entry using the CEMT SET TRDUMPCODE command.

Module: DFHFCU

AFDJ

Explanation: A call to lock manager failed when trying to locate an fct entry.

System action: The task is abnormally terminated with a CICS transaction dump. CICS processing continues.

User response: Examine the dump to determine the cause of the error. A system dump can be produced by adding the appropriate dump table entry using the CEMT SET TRDUMPCODE command.

Module: DFHFCU

AFDK

Explanation: A file control update request was made against a NSR file while transaction isolation was active for the task. Using NSR files with transaction isolation active is not supported. The **TRANISO** system initialization parameter is YES and the transaction definition has ISOLATE set to YES.

System action: The task is abnormally terminated with a CICS transaction dump. CICS processing continues.

User response: If transaction isolation is required, consider converting the file to use LSR pools or RLS. However, if transaction isolation is not required, another option is to change the transaction definition to specify ISOLATE(NO) which will cause that individual transaction to be run without transaction isolation. Examine the dump to determine the cause of the error. A system dump can be produced by adding the appropriate dump table entry using the CEMT SET TRDUMPCODE command.

Module: DFHEIFC

AGxx abend code

AGMA

Explanation: An attempt to initiate the good morning message transaction was made without specifying a termid for it to be displayed.

System action: The transaction is abnormally terminated with a CICS transaction dump.

User response: Use the dump to determine how the attempt to start the transaction was made. Ensure that no EXEC CICS STARTs are made for the good morning message transaction where no termid is specified.

Module: DFHGMM

AIxx abend codes

AICA

Explanation: A task has been executing for longer than the runaway time interval (defined by the ICVR operand on the system initialization table macro, DFHSIT) without giving up control. The runaway task condition indicates a possible loop in the application.

System action: The task is terminated with an AICA transaction dump.

User response: See the *CICS Problem Determination Guide* for guidance on dealing with loops.

Module: DFHSRP

AICB

Explanation: A RETRIEVE WAIT request has been reissued in system shutdown.

System action: The task is abnormally terminated with a CICS transaction dump.

User response: None

Module: DFHICP

AICC

Explanation: An incorrect response was returned from a timer (TI) domain request.

System action: The task is abnormally terminated with a CICS transaction dump.

User response: You need further assistance from IBM to resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHTAJP, DFHICP

AICD

Explanation: A incorrect response was returned from a kernel (KE) domain request.

System action: The task is abnormally terminated with a CICS transaction dump.

User response: You need further assistance from IBM to resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHICP

AICE

Explanation: An incorrect response was returned from a dispatcher (DS) domain request (other than AICG).

System action: The task is abnormally terminated with a CICS transaction dump.

User response: You need further assistance from IBM to resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHICP

AICF

Explanation: An incorrect response was returned from a transaction manager (TM) domain request.

System action: The task is abnormally terminated with a CICS transaction dump.

User response: You need further assistance from IBM to resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHICP

AICG

Explanation: A PURGED response was returned from a dispatcher domain (DS) request, with a reason code of TASK_CANCEL. TASK_CANCEL was returned as the transaction had been explicitly cancelled.

System action: The task is abnormally terminated with a CICS transaction dump.

User response: Notify your system programmer to determine why the task has been purged.

Module: DFHICP

AICH

Explanation: The task was purged before a request to the storage manager (SM) domain was able to complete successfully. The domain that first detected the purged condition will have provided an exception trace.

System action: The task is abnormally terminated with a CICS transaction dump.

User response: Investigate why the task was purged. This is either as a result of a purge from the master terminal operator via the CEMT transaction, or by the task being timed out after waiting for longer than the DTIMOUT (deadlock timeout) value specified for the transaction.

If the master terminal operator purged the task, this may have been in an attempt to clear the system which appeared to be deadlocked for some reason.

If the task was timed out automatically as a result of the DTIMOUT value being exceeded, this may be due to insufficient main storage being available for the number of tasks in the system. If the amount of main storage cannot be increased, reduce the number of tasks in the system to avoid short-on-storage situations. Another possibility is to increase the value of the DTIMOUT option for the transaction.

Module: DFHICP, DFHEIIC

AICJ

Explanation: An error (INVALID, DISASTER or unexpected EXCEPTION response) has occurred on a call to the storage manager (SM) domain. The domain that detected the original error will have provided an exception trace, a console message and, possibly, a system dump (depending on the options specified in the dump table).

System action: The task is abnormally terminated with a CICS transaction dump.

User response: See the related message produced by the domain that detected the original error.

Module: DFHICP

AICK

Explanation: Module DFHEIIC has issued a resource level security check (RSLC) request to module DFHXSRC and received a response other than OK or EXCEPTION.

System action: The transaction is abnormally terminated with a transaction dump.

User response: Examine the trace to find the exception trace entry created by DFHXSRC at the time of the error. Use this trace entry to determine the cause of the return code from DFHXSRC.

Module: DFHEIIC

AICL

Explanation: DFHEIIC detected an invalid function code in the command level parameter list. This is caused either by a storage overwrite or a CICS internal logic error.

System action: The transaction is abnormally terminated with a CICS transaction dump.

User response: If this problem is reproducible, a level 1 trace of the IC and EI components would aid problem determination. Look in the program storage section of the transaction dump and compare argument 0, the exec interface descriptor (EID), for the command being processed with the argument 0 produced by the translator for the same command. Any differences mean that an overwrite of the application program may have occurred. You need further assistance from IBM to resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHEIIC

AICN

Explanation: An incorrect response has been returned from a user domain (US) request.

System action: The task is abnormally terminated with a CICS transaction dump.

User response: You need further assistance from IBM to resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHICP

AICO

Explanation: An unexpected EXCEPTION response was received from a call to the user (US) domain.

The call was issued during initialization of a transaction that was started without a terminal. The call was made as part of processing to associate the transaction with its intended user. The attempt to associate the intended user with the transaction has failed.

The userid for the intended user of the transaction may not be correctly defined.

System action: The transaction is abnormally terminated with a CICS transaction dump.

User response: Determine why the intended user of the transaction is not correctly defined.

Examine messages produced for the CICS job by the external security manager (ESM). This may require the assistance of a security administrator.

It may be necessary to examine the transaction dump to determine why the external security manager has informed CICS that the user is not correctly defined.

When the user has been correctly defined, consider rerunning the transaction.

Module: DFHICXM

AICQ

Explanation: Module DFHDFST is executing at a terminal which is not permitted.

System action: The transaction is abnormally terminated with a transaction dump.

User response: Determine why this transaction is executing at a terminal.

Module: DFHDFST

AICR

Explanation: A DFHTC write request has failed for IRC. The return codes within TCATPAPR and TCTEIRET should be examined to determine the cause of failure.

System action: The CSNC transaction is abnormally terminated with a CICS transaction dump.

User response: You need further assistance from IBM to resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHCRR

AICS

Explanation: Module DFHDFST has encountered an error during Retrieve processing.

System action: The transaction is abnormally terminated with a transaction dump.

User response: Use level 1 trace entries to determine the cause of the failure.

Module: DFHDFST

AICT

Explanation: Module DFHDFST has encountered an error during START processing.

System action: The transaction is abnormally terminated with a transaction dump.

User response: Use level 1 trace entries to determine the cause of the error.

Module: DFHDFST

AIEA

Explanation: An unexpected EXCEPTION response was received from a call to the user (US) domain.

The call was issued during initialization of a transaction that was started without a terminal. The call was made as part of processing to associate the transaction with its intended user. The attempt to associate the intended user with the transaction has failed.

The userid for the intended user of the transaction may not be correctly defined.

System action: The transaction is abnormally terminated with a CICS transaction dump.

User response: Determine why the intended user of the transaction is not correctly defined.

Examine messages produced for the CICS job by the external security manager (ESM). This may require the assistance of a security administrator.

It may be necessary to examine the transaction dump to determine why the external security manager has informed CICS that the user is not correctly defined.

When the user has been correctly defined, consider rerunning the transaction.

Module: DFHIEXM

AIEB

Explanation: The transaction id (CIEP) of the ECI for TCP/IP listener task has been initiated invalidly, probably by entering the id at a terminal. This transaction must only be initiated by CICS internal processes.

System action: The transaction is abnormally terminated.

User response: Do not initiate CIEP directly.

Module: DFHIEP

AII1

Explanation: An IIOP Request Receiver transaction (default CIRR) was started invalidly. This transaction can only be initiated internally by CICS.

System action: The transaction is abnormally terminated.

User response: Do not issue this transaction.

Module: DFHIIRRS

AII2

Explanation: The IIOP Request Receiver program DFHIIRR returned an exception which may have been caused by data received from the client.

System action: The transaction is abnormally terminated.

User response: DFHIIRR will have issued an exception trace point and a message and attempted to send a messageError or systemException to the client.

Examine this information to determine why the request receiver rejected the request.

Module: DFHIIRRS

AII3

Explanation: An IIOP Request Receiver task has been purged.

System action: The transaction is abnormally terminated.

User response: None.

Module: DFHIIRRS

AII4

Explanation: The IIOP Request Receiver program DFHIIRR has returned a disaster response due to a call to another CICS program failing.

System action: The transaction is abnormally terminated.

User response: DFHIIRR, or the program it called,

will have issued an exception trace point and a message.

Examine this information to determine why the request receiver failed.

Module: DFHIIRRS

AII5

Explanation: The IIOP Request Receiver stub program was invoked from the sockets domain. However the TCPIPSERVICE defined in RDO did not specify a PROTOCOL of IIOP.

System action: The transaction is abnormally terminated.

User response: Change the TCPIPSERVICE definition to specify PROTOCOL(IIOP).

Module: DFHIIRRS

AIIA

Explanation: An error occurred in the IIOP Request Processor which prevented it from sending a reply to the Request Receiver.

System action: The transaction is abnormally terminated.

User response: The Request Processor will have issued an exception trace and a message.

Examine this information to determine why the Request Processor failed.

Module: com.ibm.cics.iiop.RequestProcessor

AIID

Explanation: The IIOP Request Processor attempted to use a CorbaServer that has been disabled or failed to initialize.

System action: The transaction is abnormally terminated.

User response: Determine why the CorbaServer has been disabled or failed to initialize.

Module: com.ibm.cics.iiop.RequestProcessor

AIIP

Explanation: An EJB was running in an OTS transaction and the timeout for this transaction was exceeded.

System action: The transaction is abnormally terminated.

User response: Check that an appropriate value has been set for the OTS timeout.

Module: com.ibm.cics.iiop.RequestProcessor

AIIT

Explanation: The IIOP Request Processor timed out waiting for a request from a Request Receiver. It received a timed out notification from the RZ domain in response to a listen on the RequestStream of which it is the target.

Reasons for this problem include:-
- the RTIMOUT value for this RequestProcessor transaction is too low.
- the client program has failed to send a further method request when one is expected by a transactional object.
- a CICS failure or logic error may have occurred.

System action: The task is abnormally terminated with a CICS transaction dump.

User response: See any related diagnostic material and determine the reason for the failure. In the case of a CICS logic error, you need further assistance from IBM. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: com.ibm.cics.iiop.RequestProcessor

AINA

Explanation: An application program has issued an EXEC CICS LINK command to the indoubt testing tool program DFHINDT but has failed to pass a commarea containing the request to be executed. Valid requests are ON, OFF, RESYNC COMMIT or RESYNC BACKOUT.

System action: The task is abnormally terminated with a CICS transaction dump.

User response: Correct the application program so that it passes a commarea to DFHINDT containing a valid request for DFHINDT.

Module: DFHINDT

AINB

Explanation: An application program has issued an EXEC CICS LINK command to the indoubt testing tool program DFHINDT passing a commarea that did not contain a valid request to be executed, Valid requests are ON, OFF, RESYNC COMMIT or RESYNC BACKOUT

System action: The task is abnormally terminated with a CICS transaction dump.

User response: Correct the application program so that it passes a commarea to DFHINDT containing a valid request for DFHINDT.

Module: DFHINDT

AINC

Explanation: The indoubt testing tool issued a EXEC CICS INQUIRE EXITPROGRAM command to inquire on the status of the indoubt testing tool task related user exit program DFHINTRU, and the command failed with a NOTAUTH response.

System action: The task is abnormally terminated with a CICS transaction dump.

User response: The indoubt testing tool can be run under transaction CIND , under a user transaction where the program EXEC CICS LINKs to DFHINDT. or under a transaction where the program EXEC CICS LINKs to DFHINDAP. If command security checking is active for the transaction (CMDSEC=YES), check that the user has read access to resource EXITPROGRAM. If resource security checking is active for the transaction (RESSEC=YES), check that the user has read access to resource DFHINTRU.

Module: DFHINDT, DFHINDAP

AIND

Explanation: The indoubt testing tool issued a EXEC CICS INQUIRE EXITPROGRAM command to inquire on the status of the indoubt testing tool task related user exit program DFHINTRU, and the command failed with an unexpected response.

System action: The task is abnormally terminated with a CICS transaction dump.

User response: You need further assistance from IBM to resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHINDT, DFHINDAP

AINE

Explanation: An error (EXCEPTION, DISASTER, INVALID, KERNERROR or PURGED) has occurred on an START_LINK_BROWSE command issued by the indoubt tool to recovery manager (RM) domain. For errors other than EXCEPTION, the RM domain provides an exception trace, a console message, and possibly a system dump (depending on the options in the dump table).

For all errors, DFHINDT provides an exception trace, console message DFHAP0002, and possibly a system dump (depending on the options in the dump table).

System action: The task is abnormally terminated with a CICS transaction dump.

User response: You need further assistance from IBM to resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHINDT

AINF

Explanation: An EXCEPTION response with an unexpected reason occurred on an GET_NEXT_LINK call issued by the indoubt testing tool to recovery manager (RM) domain. DFHINDT provides an exception trace, console message DFHAP0002, and possibly a system dump (depending on the options in the dump table).

System action: The task is abnormally terminated with a CICS transaction dump.

User response: You need further assistance from IBM to resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHINDT

AING

Explanation: An error (DISASTER, INVALID, KERNERROR, or PURGED) has occurred on an GET_NEXT_LINK call issued by the indoubt testing tool to recovery manager (RM) domain. The RM domain provides an exception trace, a console message, and possibly a system dump (depending on the options in the dump table).

DFHINDT also provides an exception trace, console message DFHAP0002, and possibly a system dump (depending on the options in the dump table).

System action: The task is abnormally terminated with a CICS transaction dump.

User response: You need further assistance from IBM to resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHINDT

AINH

Explanation: An error (EXCEPTION, DISASTER, INVALID, KERNERROR or PURGED) has occurred on an END_LINK_BROWSE command issued by the indoubt tool to recovery manager (RM) domain. For errors other than EXCEPTION, the RM domain provides an exception trace, a console message, and possibly a system dump (depending on the options in the dump table).

For all errors, DFHINDT provides an exception trace, console message DFHAP0002, and possibly a system dump (depending on the options in the dump table).

System action: The task is abnormally terminated with a CICS transaction dump.

User response: You need further assistance from IBM to resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHINDT

AINI

Explanation: An error (EXCEPTION, DISASTER, INVALID, KERNERROR or PURGED) has occurred on an INQUIRE_UOW command issued by the indoubt testing tool to recovery manager (RM) domain. For errors other than EXCEPTION, the RM domain provides an exception trace, a console message, and possibly a system dump (depending on the options in the dump table).

For all errors, DFHINDT provides an exception trace, console message DFHAP0002, and possibly a system dump (depending on the options in the dump table).

System action: The task is abnormally terminated with a CICS transaction dump.

User response: You need further assistance from IBM to resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHINDT

AINJ

Explanation: An EXCEPTION response with an unexpected reason occurred on an INITIATE_RECOVERY call issued by the indoubt testing tool to recovery manager (RM) domain. DFHINDT provides an exception trace, console message DFHAP0002, and possibly a system dump (depending on the options in the dump table).

System action: The task is abnormally terminated with a CICS transaction dump.

User response: You need further assistance from IBM to resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHINDT

AINK

Explanation: An error (DISASTER, INVALID, KERNERROR, or PURGED) has occurred on an INITIATE_RECOVERY call issued by the indoubt testing tool to recovery manager (RM) domain. The RM domain provides an exception trace, a console message, and possibly a system dump (depending on the options in the dump table).

DFHINDT also provides an exception trace, console message DFHAP0002, and possibly a system dump (depending on the options in the dump table).

System action: The task is abnormally terminated with a CICS transaction dump.

User response: You need further assistance from IBM to resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHINDT

AINL

Explanation: An error (EXCEPTION, DISASTER, INVALID, KERNERROR or PURGED) has occurred on an SET_RECOVERY_STATUS command issued by the indoubt testing tool to recovery manager (RM) domain. For errors other than EXCEPTION, the RM domain provides an exception trace, a console message, and possibly a system dump (depending on the options in the dump table).

For all errors, DFHINDT provides an exception trace, console message DFHAP0002, and possibly a system dump (depending on the options in the dump table).

System action: The task is abnormally terminated with a CICS transaction dump.

User response: You need further assistance from IBM to resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHINDT

AINM

Explanation: An error (EXCEPTION, DISASTER, INVALID, KERNERROR or PURGED) has occurred on an TERMINATE_RECOVERY command issued by the indoubt testing tool to recovery manager (RM) domain. For errors other than EXCEPTION, the RM domain provides an exception trace, a console message, and possibly a system dump (depending on the options in the dump table).

For all errors, DFHINDT provides an exception trace, console message DFHAP0002, and possibly a system dump (depending on the options in the dump table).

System action: The task is abnormally terminated with a CICS transaction dump.

User response: You need further assistance from IBM to resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHINDT

AINN

Explanation: An error (EXCEPTION, DISASTER, INVALID, KERNERROR or PURGED) has occurred on an ADD_LINK command issued by the indoubt testing tool to recovery manager (RM) domain. For errors other than EXCEPTION, the RM domain provides an exception trace, a console message, and possibly a system dump (depending on the options in the dump table).

For all errors, DFHINTRU provides an exception trace, console message DFHAP0002, and possibly a system dump (depending on the options in the dump table).

System action: The task is abnormally terminated with a CICS transaction dump.

User response: You need further assistance from IBM to resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHINTRU

AINO

Explanation: The indoubt testing tool task related user exit DFHINTRU issued an EXEC CICS INQUIRE TRANSACTION command to inquire whether the current transaction was in the indoubt transaction class DFHTCIND. The command failed with a NOTAUTH response.

System action: The task is abnormally terminated with a CICS transaction dump.

User response: When the indoubt testing tool is active, the task related user exit DFHINTRU is invoked whenever a CICS transaction is started. For all transactions for which command security checking is active, ensure that the user has read access to resource TRANSACTION. If started transaction resource security checking is specified, for all transactions for which resource security checking is active, ensure that the user has read access to the transaction name in the specified RACF resource class.

For more information on command security and resource security see the *CICS RACF Security Guide*.

Module: DFHINTRU

AINP

Explanation: The indoubt testing tool task related user exit DFHINTRU issued an EXEC CICS INQUIRE TRANSACTION command to inquire whether the current transaction was in the indoubt transaction class DFHTCIND. The command failed with an unexpected response.

System action: The task is abnormally terminated with a CICS transaction dump.

User response: You need further assistance from IBM to resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHINTRU

AINQ

Explanation: The indoubt testing tool task related user exit DFHINTRU issued an EXEC CICS INQUIRE TASK command to inquire on the current task to obtain the unit of work ID to include in message DFHIN1009. The command failed with a TASKIDERR response.

System action: The task is abnormally terminated with a CICS transaction dump.

User response: You need further assistance from IBM to resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHINTRU

AINR

Explanation: The indoubt testing tool task related user exit DFHINTRU issued an EXEC CICS INQUIRE TASK command to inquire on the current task to obtain the unit of work ID to include in message DFHIN1009. The command failed with a NOTAUTH response.

System action: The task is abnormally terminated with a CICS transaction dump.

User response: When the indoubt testing tool is active, the task related user exit DFHINTRU is invoked whenever a CICS transaction is started. For all transactions for which command security checking is active (CMDSEC=YES), ensure that the user has read access to resource TASK.

Module: DFHINTRU

AINS

Explanation: The indoubt testing tool task related user exit DFHINTRU issued an EXEC CICS INQUIRE TASK command to inquire on the current task to obtain the unit of work ID to include in message DFHIN1009. The command failed with an unexpected response.

System action: The task is abnormally terminated with a CICS transaction dump.

User response: You need further assistance from IBM to resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHINTRU

AIPA

Explanation: IP interconnectivity program DFHISCOP has been initiated invalidly, probably by entering a transaction id that refers to it, for example CISC or CISS, at a terminal. This program must only be initiated by CICS internal processes.

System action: The task is abnormally terminated.

User response: Do not initiate CISC or CISS directly.

Module: DFHISCOP

AIPB

Explanation: IP interconnectivity receiver program DFHISRRP has been initiated invalidly, probably by entering a transaction id that refers to it, for example CISR, at a terminal. This program must only be initiated by CICS internal processes.

System action: The task is abnormally terminated.

User response: Do not initiate CISR directly.

Module: DFHISRRP

AIPC

Explanation: IP interconnectivity error and message program DFHISEMP has been initiated invalidly, probably by entering a transaction id that refers to it, for example CISE, at a terminal. This program must only be initiated by CICS internal processes.

System action: The task is abnormally terminated.

User response: Do not initiate CISE directly.

Module: DFHISEMP

AIPD

Explanation: IP interconnectivity program DFHISCOP has been initiated with invalid attach parameters by CICS internal processes. This could be the result of a configuration error or a storage overwrite.

DFHISCOP should be defined as the initial program for the IS domain connectivity transactions; these are CISC and the transactions for TCPIPSERVICEs with protocol IPIC, CISS by default. This error could occur if DFHISCOP is defined as the initial program for some other CICS internal transaction.

System action: The task is abnormally terminated with a CICS transaction dump.

User response: Check that DFHISCOP is correctly defined.

If necessary, examine the dump and any exception trace entries to determine why the attach parameters are missing or invalid.

Module: DFHISCOP

AIPE

Explanation: IP interconnectivity program DFHISCOP received an INVALID, DISASTER, or EXCEPTION response. DFHISCOP received the response from either a call to the intersystems communication (IS) domain to acquire or release an IPCONN or from another domain during IS domain initialization processing.

The domain that detected the original error provides an exception trace, a console message and, possibly, a system dump.

System action: The task is abnormally terminated with a transaction dump.

User response: See the related message from the domain that detected the original error and examine the dump and any exception trace entries for further information if necessary.

Module: DFHISCOP

AIPF

Explanation: IP interconnectivity program DFHISCOP received an PURGED response from a call to the intersystems communication (IS) domain to acquire or release an IPCONN.

The domain that detected the original error provides an exception trace, a console message and, possibly, a system dump.

System action: The task is abnormally terminated with a transaction dump.

User response: Investigate why the task was purged. This is either as a result of a purge from the master terminal operator via the CEMT transaction, or by the task being timed out after waiting for longer than the DTIMOUT (deadlock timeout) value specified for the transaction.

If the master terminal operator purged the task, this may have been in an attempt to clear the system which appeared to be deadlocked for some reason.

If the task was timed out automatically as a result of the DTIMOUT value being exceeded, this may be due to insufficient main storage being available for the number of tasks in the system. If the amount of main storage cannot be increased, reduce the number of tasks in the system to avoid short-on-storage situations. Another possibility is to increase the value of the DTIMOUT option for the transaction.

Module: DFHISCOP

AIPG

Explanation: IP interconnectivity long-running request/response receiver program received an INVALID, DISASTER, or EXCEPTION response from its PROCESS_INPUT call to the intersystems communication (IS) domain.

The domain that detected the original error provides an exception trace, a console message and, possibly, a system dump.

System action: The task is abnormally terminated with a transaction dump.

User response: See the related message from the domain that detected the original error and examine the dump and any exception trace entries for further information if necessary.

Module: DFHISRRP

AIPH

Explanation: IP interconnectivity long-running error and message program received an INVALID, DISASTER, or EXCEPTION response from its PROCESS_ERROR call to the intersystems communication (IS) domain.

The domain that detected the original error provides an exception trace, a console message and, possibly, a system dump.

System action: The task is abnormally terminated with a transaction dump.

User response: See the related message from the domain that detected the original error and examine the dump and any exception trace entries for further information if necessary.

Module: DFHISEMP

AIPI

Explanation: IP interconnectivity program DFHISREU or DFHISREX has been initiated invalidly, probably by entering the transaction ID that refers to it, CISU or CISX, at a terminal. This program must only be initiated by CICS internal processes.

System action: The task is abnormally terminated.

User response: Do not initiate CISU or CISX directly.

Module: DFHISREU, DFHISREX

AIPJ

Explanation: The IS attach client module DFHISXM received an INVALID, DISASTER, or unexpected EXCEPTION response from its INITIALIZE_RECEIVER call to module DFHISIS.

The call was issued during initialization of a transaction that was started by a transaction attach message received on an IP connection. The call was made as part of processing to associate the transaction with its intended user. The attempt to associate the intended user with the transaction has failed.

The userid for the intended user of the transaction may not be correctly defined.

Security attributes defined for the IPCONN may not be consistent with the security parameters received in the transaction attach message.

System action: The task is abnormally terminated with a transaction dump.

User response: Examine the dump and any exception trace entries for further information if necessary.

Verify the userid for the intended user is correctly defined to the external security manager.

Verify the IPCONN security attributes are correctly defined.

Module: DFHISXM

AIPK

Explanation: The IS attach client module DFHISXM received a PURGED response from its call to another module.

The call was issued during initialization of a transaction that was started by a transaction attach message received on an IPIC connection.

The ISSB representing the IPIC receive session allocated to this transaction has been flagged for abend following an error on the IPCONN or purge request from the initiating system.

System action: The task is abnormally terminated with a transaction dump.

User response: Look for related messages reported in the error log. Examine the dump and any exception trace entries for further information if necessary.

Module: DFHISXM

AIPL

Explanation: The IS attach client module DFHISXM received an INVALID, DISASTER, or unexpected EXCEPTION response from its call to another module.

The call was issued during initialization of a transaction that was started by a transaction attach message received on an IPIC connection. The attempt to initialize the transaction has failed.

The input message received may not be in the expected format.

System action: The task is abnormally terminated with a transaction dump.

User response: Examine the dump and any exception trace entries for further information if necessary.

Module: DFHISXM

AIPM

Explanation: The transaction was connected to another transaction in another CICS system via an IPIC link. This other transaction has abnormally terminated.

System action: The task is abnormally terminated with a CICS transaction dump.

User response: Correct the cause of the abend in the connected transaction.

Module: DFHISIS

AIPN

Explanation: IP interconnectivity program DFHISLQP has been initiated invalidly, probably by entering a transaction ID that refers to it, CISQ, at a terminal. This program must be initiated only by CICS internal processes.

System action: The task is abnormally terminated.

User response: Do not initiate CISQ directly.

Module: DFHISLQP

AIPO

Explanation: IP interconnectivity program DFHISLQP has been initiated with invalid attach parameters by CICS internal processes. This could be the result of a configuration error or a storage overwrite.

DFHISLQP should be defined as the initial program for the IS domain connectivity transaction CISQ. This error could occur if DFHISLQP is defined as the initial program for some other CICS internal transaction.

System action: The task is abnormally terminated with a CICS transaction dump.

User response: Check that DFHISLQP is correctly defined.

If necessary, examine the dump and any exception trace entries to determine why the attach parameters are missing or invalid.

Module: DFHISLQP

AIPP

Explanation: IP interconnectivity program DFHISLQP received an INVALID, DISASTER, or EXCEPTION response from a call to the intersystems communication (IS) domain to process requests that are locally queued for an IPCONN.

The domain that detected the original error provides an exception trace, a console message and, possibly, a system dump.

System action: The task is abnormally terminated with a transaction dump.

User response: See the related message from the domain that detected the original error and examine the dump and any exception trace entries for further information if necessary.

Module: DFHISLQP

AIPR

Explanation: IP interconnectivity program DFHISLQP received an PURGED response from a call to the intersystems communication (IS) domain to acquire or release an IPCONN.

The domain that detected the original error provides an exception trace, a console message and, possibly, a system dump.

System action: The task is abnormally terminated with a transaction dump.

User response: Investigate why the task was purged. This is either as a result of a purge from the master terminal operator via the CEMT transaction, or by the task being timed out after waiting for longer than the DTIMOUT (deadlock timeout) value specified for the transaction.

If the master terminal operator purged the task, this may have been in an attempt to clear the system which appeared to be deadlocked for some reason.

If the task was timed out automatically as a result of the DTIMOUT value being exceeded, this may be due to insufficient main storage being available for the number of tasks in the system. If the amount of main storage cannot be increased, reduce the number of tasks in the system to avoid short-on-storage situations. Another possibility is to increase the value of the DTIMOUT option for the transaction.

Module: DFHISLQP

AIS1

Explanation: An unexpected return code has been returned after a DFHMROQM FUNC=ENQ command was issued.

This command was issued when enqueueing work for the IRC control task (CSNC) during IRC initialization.

System action: If IRC is being initialized during CICS initialization (as a result of IRCSTRT being specified in the DFHSIT or override parameters), then CICS is abnormally terminated.

If IRC is being initialized during the execution of a CEMT SET IRC OPEN command, then the CEMT transaction is abnormally terminated.

User response: You need further assistance from IBM to resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHCRSP

AIS2

Explanation: An unexpected return code has been returned after a DFHMROQM FUNC=WAIT_Q command was issued.

This command was issued when waiting for more IRC work to process.

System action: CSNC is abnormally terminated with a system dump. All tasks using MRO links to other systems are abnormally terminated.

All tasks in other CICS regions (including shared database batch regions) that are currently communicating with this system are also abended.

User response: You need further assistance from IBM to resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHCRNP

AIS3

Explanation: An attempt to issue a STCK (Store Clock) instruction failed.

System action: CSNC is abnormally terminated with a system dump.

All tasks using MRO links to other systems are abnormally terminated.

All tasks in other CICS regions (including shared database batch regions) that are currently communicating with this system are also abended.

User response: Repair or enable the system clock.

Module: DFHCRNP

AIS4

Explanation: An unexpected return code has been returned after a DFHMROQM FUNC=ENQUEUE command. This command was issued when enqueueing work to the IRC 'delayed work' queue.

System action: CSNC is abnormally terminated with a system dump. All tasks using MRO links to other systems are abnormally terminated.

All tasks in other CICS regions (including shared database batch regions) that are currently communicating with this system are also abended.

User response: You need further assistance from IBM to resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHCRNP

AIS5

Explanation: An unexpected return code has been returned after a DFHMROQM FUNC=ENQUEUE command was issued.

This command was issued when enqueueing work to the IRC 'immediate work' queue.

System action: CSNC is abnormally terminated with a system dump. All tasks using MRO links to other systems are abnormally terminated.

All tasks in other CICS regions (including shared database batch regions) that are currently communicating with this system are also abended.

User response: You need further assistance from IBM to resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHCRNP

AIS6

Explanation: An INVALID, DISASTER or EXCEPTION condition has occurred on a call to the storage manager domain (SM) to GETMAIN or FREEMAIN a file control read set buffer.

The domain that detected the original error provides an exception trace, a console message and, possibly, a system dump.

System action: The task is abnormally terminated with a transaction dump.

User response: See the related message from the domain that detected the original error.

Module: DFHMIRS

AIS7

Explanation: A PURGED condition has occurred on a call to the storage manager domain (SM) to FREEMAIN a file control read set buffer.

The domain that detected the original error provides an exception trace, a console message and, possibly, a system dump.

System action: The task is abnormally terminated with a transaction dump.

User response: Investigate the reason why the task was purged. It was purged either by the master terminal operator , or as a result of a deadlock timeout.

Module: DFHMIRS

AIS8

Explanation: An internal logic error has been detected in module DFHMIRS.

System action: The transaction is abnormally terminated with a CICS transaction dump.

User response: You need further assistance from IBM to resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHMIRS

AIS9

Explanation: The mirror program has detected that a DPL server program has returned in an invalid state following the completion of the LINK command. The server program or a program it linked to has initiated a synclevel 2 conversation with another program which in turn has issued a syncpoint. The server program has not responded to the syncpoint request which is still outstanding when control returns to the mirror program.

The mirror program only issues this abend code if the LINK request did not specify SYNCONRETURN.

System action: The task is abnormally terminated with a transaction dump.

User response: Correct the design of the DTP application or applications initiated by the server program. If the SYNCONRETURN option is not specified on the LINK request, only the client program should initiate the syncpoint. If it is necessary to issue syncpoint requests from the DTP applications, consider using the SYNCONRETURN option on the LINK request. See the *CICS Intercommunication Guide* for further details of the LINK command and its options.

Module: DFHMIRS

AISA

Explanation: The mirror transaction (CSMI) has been attached from some facility other than a terminal. This is not permitted.

System action: The task is abnormally terminated with a CICS transaction dump.

User response: Using the dump, check the field TCAFCAAA to identify the invalid attach.

Module: DFHMIRS

AISB

Explanation: The mirror transaction (CSMI) has detected errors in the data passed to it from the attaching transaction.

System action: The task is abnormally terminated with a CICS transaction dump.

User response: The invalid input will be visible in the transaction dump. This error is likely to be caused by some mismatch between the two systems. A typical example might be a DL/I request received on a system generated without DL/I.

Module: DFHMIRS

AISC

Explanation: The mirror transaction (CSMI) has not received a TIOA from the terminal.

System action: The task is abnormally terminated with a CICS transaction dump.

User response: Use the trace in the dump and the dumped TCTTE to analyze the problem further.

Module: DFHMIRS

AISD

Explanation: The mirror program executed the request and received a nonzero return code as a result. The data flow control state of the intersystem link being used was such that this information could not be returned normally.

System action: The mirror task is abnormally terminated with a CICS transaction dump.

User response: The transaction dump provided will provide information required to analyze the source of the nonzero return code at its point of origin.

Module: DFHMIRS

AISF

Explanation: The CICS mirror program DFHMIRS has been attached in an unsupported manner. The principal facility for the mirror transaction is defined as APPC, however the conversation is unmapped.

System action: CICS abnormally terminates the transaction with a transaction dump.

User response: There is a problem with the system that caused the mirror transaction to be attached. You need further assistance from IBM to resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHMIRS

AISG

Explanation: The mirror program executed the request and produced the reply. This would not be sent because the data flow control state of the intersystem link was such that this could not be done.

System action: The task (CSMI) is abnormally terminated with a CICS transaction dump.

User response: Use the transaction dump provided to analyze the problem.

Module: DFHMIRS

AISH

Explanation: The new connection task, CSNC, has been invoked in an incorrect manner (for example, from a terminal or via an EXEC CICS START request).

System action: The task is abnormally terminated with a CICS transaction dump.

User response: None.

Module: DFHCRNP

AISI

Explanation: A function shipping request was passed by DFHEIP to DFHISP. This was found to be invalid by the transformer, DFHXFP.

System action: The transaction issuing the function shipping request is abnormally terminated with a CICS transaction dump.

User response: The transaction dump will provide information to further analyze the problem.

Module: DFHISP

AISJ

Explanation: The IRC control task CSNC has abended because the attempt to LINK to DFHCRR failed.

System action: CSNC is abnormally terminated with a system dump. All tasks using MRO links to other systems are abnormally terminated. All tasks in other CICS regions (including shared database batch regions) that are currently communicating with this system are also abnormally terminated.

User response: Ensure that program DFHCRR is available.

Module: DFHCRNP

AISK

Explanation: The user transaction has been abnormally terminated during the execution of a function shipping request on an APPC session. This has happened because the mirror transaction on the remote system has abnormally terminated, and caused a request for syncpoint rollback to be sent across the session. CICS abends the user transaction in these circumstances so that function shipping remains transparent to the transaction.

System action: The task is abnormally terminated with a CICS transaction dump.

User response: Check the log on the mirror system to determine the reason for the original abend of the mirror task.

Module: DFHISP

AISL

Explanation: The LU services manager transaction has been started directly from a user terminal. This is not permitted.

System action: The task is abnormally terminated with a transaction dump.

User response: None. The LU services manager transaction must be started internally by CICS.

Module: DFHLUP, DFHCLS3, DFHCLS4, DFHZLS1

AISN

Explanation: Task CSNC attempted to acquire a SUSPEND TOKEN to enable it to suspend itself until further work arrives. The attempt failed.

System action: CSNC is abnormally terminated with a dump. The IRC facility is disabled.

User response: You need further assistance from IBM to resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHCRNP

AISO

Explanation: Task CSNC attempted to suspend itself, awaiting further work. The attempt failed.

System action: CSNC is abnormally terminated with a dump. The IRC facility is disabled.

User response: You need further assistance from IBM to resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHCRNP

AISP

Explanation: A mirror transaction (transaction identifiers CSHR, CSM1, CSM2, CSM3, CSM5, or CSMI) has been invoked with an invalid principal facility. The mirror transaction executes with an MRO session, an LU6.1 session or an APPC session as its principal facility.

System action: The transaction is abnormally terminated with a CICS transaction dump.

User response: Do not attempt to invoke the mirror transaction by entering the transaction identifier at a terminal.

Module: DFHMIRS

AISQ

Explanation: An EXEC CICS command has been issued against a CPI Communications session. A CPI Communications session is one that has a CPI-Communications Control Block (CPC) associated with it.

System action: The mirror task is abnormally terminated with a CICS transaction dump.

User response: Do not mix EXEC commands with CPI Communications calls on the same end of a conversation.

Module: DFHMIRS

AISR

Explanation: The CICS Inter-Region Session Recovery Program (DFHCRR) has been invoked in an incorrect manner, for example, from a terminal.

System action: The program DFHCRR is abnormally terminated with a CICS transaction dump.

User response: None.

Module: DFHCRR

AISS

Explanation: A security violation has occurred while CICS was attempting to start a conversation with a remote APPC system. The security access level of the requestor was insufficient to access the transaction on the connected APPC system. Depending on the nature of the request and the way security has been set up, the requestor with an insufficient access level can be the local CICS system, the requesting transaction, or the terminal user. DTP programs do not abend with code AISS after a security failure in the remote region.

System action: The transaction is abnormally terminated with a transaction dump.

User response: First, verify that the access was correctly denied. Then, if required, change the access level.

Module: DFHZARM

AIST

Explanation: An unexpected return code has been returned after a DFHTC TYPE=LOCATE command.

System action: CSNC is abnormally terminated with a system dump. All tasks using MRO links to other systems are abnormally terminated. All tasks in other CICS regions (including shared database batch regions) that are currently communicating with this system are also abended.

User response: The trace in the system dump should be used to analyze the problem further.

Module: DFHCRNP

AISU

Explanation: An INVALID, DISASTER, or EXCEPTION condition has occurred on a call to the storage manager domain (SM) to FREEMAIN a FCENT control block.

The domain that detected the original error provides an exception trace, a console message and, possibly, a system dump.

System action: The task is abnormally terminated with a transaction dump.

User response: See the related message from the domain that detected the original error.

Module: DFHMIRS

AISV

Explanation: A PURGED condition has occurred on a call to the storage manager domain (SM) to FREEMAIN a FCENT control block.

The domain that detected the original error provides an exception trace, a console message and, possibly, a system dump.

System action: The task is abnormally terminated with a transaction dump.

User response: Investigate why the task was purged. This is either as a result of a purge from the master terminal operator via the CEMT transaction, or by the task being timed out after waiting for longer than the DTIMOUT (deadlock timeout) value specified for the transaction.

If the master terminal operator purged the task, this may have been in an attempt to clear the system which appeared to be deadlocked for some reason.

If the task was timed out automatically as a result of the DTIMOUT value being exceeded, this may be due to insufficient main storage being available for the number of tasks in the system. If the amount of main storage cannot be increased, reduce the number of tasks in the system to avoid short-on-storage situations. Another possibility is to increase the value of the DTIMOUT option for the transaction.

Module: DFHMIRS

AISW

Explanation: An INVALID, DISASTER, or EXCEPTION condition has occurred on a call to the storage manager domain (SM) to GETMAIN or FREEMAIN a CRB control block.

The domain that detected the original error provides an exception trace, a console message and, possibly, a system dump.

System action: The task is abnormally terminated with a transaction dump.

User response: See the related message from the domain that detected the original error.

Module: DFHCRSP

AISX

Explanation: A PURGED condition has occurred on a call to the storage manager domain (SM) to GETMAIN or FREEMAIN a CRB control block.

The domain that detected the original error provides an exception trace, a console message and, possibly, a system dump.

System action: The task is abnormally terminated with a transaction dump.

User response: Investigate why the task was purged. It was purged either as a result of a purge from the master terminal operator via the CEMT transaction, or by the task being timed out after waiting for longer than the DTIMOUT (deadlock timeout) value specified for the transaction.

If the master terminal operator purged the task, this may have been in an attempt to clear the system which appeared to be deadlocked for some reason.

If the task was timed out automatically as a result of the DTIMOUT value being exceeded, this may be due to insufficient main storage being available for the number of tasks in the system. If the amount of main storage cannot be increased, reduce the number of tasks in the system to avoid short-on-storage situations. Another possibility is to increase the value of the DTIMOUT option for the transaction.

Module: DFHCRSP

AISY

Explanation: The LU services manager transaction has been started, but invalid parameters have been detected.

System action: The task is abnormally terminated with a transaction dump.

User response: See message DFHZC4921 for further guidance.

Module: DFHLUP

AISZ

Explanation: DFHMXP has received an unexpected reply when committing START PROTECT NOCHECK requests sent on a LUTYPE6.2 synclevel 1 conversation.

System action: The task is abnormally terminated.

User response: Determine what happened to transaction CVMI in the partner system. If the START PROTECT NOCHECK requests had been committed, no further action is necessary. If they had not been committed, user-defined action is required to recover from the error.

Module: DFHMXP

AITA

Explanation: An error (INVALID, DISASTER or unexpected EXCEPTION response) has occurred on a call to the recovery manager (RM) domain to initialize the recovery status of an IRC session. The domain provides an exit trace, and possibly a console message and a system dump (depending on the options specified in the dump table).

This failure is either the result of a task purge, or a CICS logic error,

System action: The CSNC task is abnormally terminated with a CICS transaction dump.

User response: See the related diagnostic material produced by the recovery manager domain and determine the reason for the failure. In the case of a CICS logic error, you need further assistance from IBM. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHCRNP

AITB

Explanation: An error (INVALID, DISASTER or unexpected EXCEPTION response) has occurred on a call to the recovery manager (RM) domain. The domain provides an exit trace, and possibly a console message and a system dump (depending on the options specified in the dump table).

This failure is either the result of a task purge, or a CICS logic error,

System action: The task is abnormally terminated with a CICS transaction dump.

User response: See the related diagnostic material produced by the recovery manager domain and determine the reason for the failure. In the case of a CICS logic error, you need further assistance from IBM. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHISP DFHMXP

AITC

Explanation: An error (INVALID, DISASTER or unexpected EXCEPTION response) has occurred on a call to the recovery manager (RM) domain. The domain provides an exit trace, and possibly a console message and a system dump (depending on the options specified in the dump table).

This failure is either the result of a task purge, or a CICS logic error,

System action: The mirror task is abnormally terminated with a CICS transaction dump.

User response: See the related diagnostic material produced by the recovery manager domain and determine the reason for the failure. In the case of a CICS logic error, you need further assistance from IBM. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHMIRS

AITD

Explanation: The mirror program has received an unexpected response from the RX domain.

There are several reasons why this error may occur

- A request received from an EXCI client is inconsistent with an earlier request in the same Unit of Work
- CICS has received an unexpected response from the Recoverable Resource Management Services component of MVS.

- There has been an internal error in the RX domain.

System action: The mirror task is abnormally terminated with a CICS transaction dump.

User response: Use the exception trace provided by the RX domain to determine the reason for the failure. If the error is caused by an inconsistent request from an EXCI client, there may be an error in the client program.

In the other cases, you might need further assistance from IBM. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHMIRS

AITE

Explanation: A transaction has executed a transactional EXCI request from a batch region, and has been waiting for one of the following events for longer than the interval specified in the RTIMOUT value for the transaction.
- A further transactional EXCI request from the batch region
- A syncpoint initiated by Resource Recovery Management Services (RRMS).

System action: The mirror task is abnormally terminated with a CICS transaction dump.

User response: Determine why the expected event has not occurred. If a further transactional EXCI request is expected:
- The batch program may be suspended.

If a syncpoint is expected:
- The batch program may be suspended before reaching syncpoint.
- RRMS may have started syncpoint processing but is waiting for another Resource Manager to respond to the syncpoint request.

See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHMIRS

AITF

Explanation: A transaction has executed a transactional EXCI request from a batch region, and has been purged while waiting for one of the following events
- A further transactional EXCI request from the batch region
- A syncpoint initiated by Resource Recovery Management Services (RRMS).

System action: The mirror task is abnormally terminated with a CICS transaction dump.

User response: Determine why the expected event has not occurred. If a further transactional EXCI request is expected:
- The batch program may be suspended

If a syncpoint is expected:
- The batch program may be suspended before reaching syncpoint.
- RRMS may have started syncpoint processing but is waiting for another Resource Manager to respond to the syncpoint request.

See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHMIRS

AITG

Explanation: A transaction has executed a transactional EXCI request from a batch region, and both of the following events has occurred
- A further transactional EXCI request from the batch region
- A syncpoint initiated by Resource Recovery Management Services (RRMS).

Normally, only one event should occur, and not both.

System action: The mirror task is abnormally terminated with a CICS transaction dump.

User response: Determine why both events have occurred. This situation may arise when an EXCI client times out on a DPL request that CICS is not ready to receive and then proceeds to take a syncpoint. If this is not the case, you may need assistance from IBM. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHMIRS

AITH

Explanation: A mirror transaction processing an ECI request from a TCP/IP connected client has failed while trying to receive data from, or send data to, a client. This could be a read time out, or a more serious error in the flows that prevented CICS from correctly processing the data.

System action: The mirror task is abnormally terminated with a CICS transaction dump.

User response: If the error was a time out, determine why the client has not continued with the extended ECI conversation. Other errors will have associated IE domain messages to aid in problem determination.

Module: DFHMIRS

AITI

Explanation: A mirror transaction processing a START CHANNEL or LINK CHANNEL request has failed while trying to receive data from, or send data to, a connected CICS system. Because a channel may include a considerable amount of data, it may require many calls to terminal control to transmit channel data. DFHMIRS calls program DFHAPCR to perform all the inter-system transmission of channel data. Terminal control has detected an error in one of these calls. The error could be a read time out, or a more serious error in the flows that prevented CICS from correctly processing the data.

System action: The mirror task is abnormally terminated with a CICS transaction dump.

User response: If the error was a time out, determine why the other end has not continued with the conversation. Other errors will have associated terminal control messages to aid in problem determination. Examine trace entries from DFHAPCR to determine terminal control error and sense information.

Module:

AITJ

Explanation: A mirror transaction processing a request from a client connected using IP interconnectivity has failed while trying to receive data from, or send data to, a client. This could be a read time out, or a more serious error in the flows that prevented CICS from correctly processing the data.

System action: The mirror task is abnormally terminated with a CICS transaction dump.

User response: If the error was a time out, determine why the client has not continued with the conversation. Other errors will have associated IS domain messages to aid in problem determination.

Module: DFHMIRS

AITK

Explanation: The ISCINVREQ condition has been raised. This can happen when the resource proves to be on yet another remote system, that is, when daisy-chaining is active.

System action: The task is abnormally terminated with a CICS transaction dump.

User response: Check that daisy-chaining of requests is intended and that all relevant intersystem links are in service.

Module: DFHMIRS

AITL

Explanation: The IPIC client sent a CCSID that was not recognized.

System action: The task is abnormally terminated with a CICS transaction dump.

User response: Check that the client system is using one of the client code pages supported by CICS TS.

Module: DFHMIRS

AITM

Explanation: A command has been received by the mirror program to call itself.

System action: The task is abnormally terminated with a CICS transaction dump.

User response: Correct the API command in the client system program so that it does not request an EXEC CICS LINK PROGRAM to run that specifies the name of the mirror program.

Module: DFHMIRS

AITN

Explanation: An attempt to change the TCB DFHMIRS was running on has failed.

System action: The transaction is terminated.

User response: Contact your IBM support center.

Module: DFHMIRS

AJxx abend codes

AJ01

Explanation: The main method of the Java environment setup class, Wrapper, has been invoked without an argument. Wrapper main expects the class name of the user's main to be passed as the first argument.

The callUserClass method of Wrapper detects this, sets return code INVALID_ARGUMENTS and invokes native method SetAbend to abend the task.

System action: The task is abnormally terminated with a CICS transaction dump.

User response: You need further assistance from IBM to resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFJCICS

AJ02

Explanation: A CICS AbendError has been caught by the Java environment setup class, Wrapper.

The callUserClass method of Wrapper detects this, sets return code ABEND_RECEIVED and invokes native method SetAbend to abend the task.

System action: The task is abnormally terminated with a CICS transaction dump.

User response: See related messages and JVM error output in stderr to determine the reason for the original abend.

Module: DFJCICS

AJ03

Explanation: A CicsConditionException has been caught by the Java environment setup class, Wrapper.

The callUserClass method of Wrapper detects this, sets return code CONDITION_RECEIVED and invokes native method SetAbendForCondition to abend the task. The appropriate default abend code for the condition should be issued but, if for some reason this is not possible, an AJ03 abend may be issued.

System action: The task is abnormally terminated with a CICS transaction dump.

User response: See related messages and JVM error output in stderr to determine the reason for the original CicsConditionException.

Module: DFJCICS

AJ04

Explanation: An unexpected error has been caught by the Java environment setup class, Wrapper, attempting to invoke the user class or an unhandled exception has been thrown in the Java environment.

In the first case, the callUserClass method of Wrapper detects this, sets return code UNEXPECTED_EXCEPTION and invokes native method SetAbend to abend the task. In the second case, the JNI code invokes the SetAbend method to abend the task and AJ04 is set as the default abend code.

System action: The task is abnormally terminated with a CICS transaction dump.

User response: See related messages and JVM error output in stderr to determine the reason for the original exception.

Module: DFJCICS

AJ05

Explanation: An unhandled exception has been caught by the Java environment setup class, Wrapper, as an InvocationTargetException from the user class.

The callUserClass method of Wrapper detects this, sets return code INVOCATION_TARGET_EXCEPTION and invokes native method setAbend to abend the task.

System action: The task is abnormally terminated with a CICS transaction dump.

User response: See related messages and JVM error output in stderr to determine the reason for the original exception.

Module: DFJCICS

AJ07

Explanation: The Java environment setup class, Wrapper, has been unable to invoke the user's main method. The class whose name was passed as an input parameter to its CallUserClass method was not found.

System action: The task is abnormally terminated with a CICS transaction dump.

User response: Check that CICS has been granted read permission to the target class and the entire HFS directory structure in which the class or Jar file is located.

Module: DFJCICS

AJ09

Explanation: The Java environment setup class, Wrapper, has been unable to invoke the user's main method. A public static method, taking either a CommAreaHolder or a String array as input, was not found in the class whose name was passed as an input parameter to the CallUserClass method of Wrapper.

System action: The task is abnormally terminated with a CICS transaction dump.

User response: Check that you have provided a main method, with an appropriate method signature, in the specified class. Also check that the target class explicitly uses the 'public' class modifier and that it is stored in a jar file on the JVM's classpath. CICS must have read permission for the jar file.

Module: DFJCICS

AJ10

Explanation: The Java environment setup class, Wrapper, has detected that the user's class has used JDBC or SQLJ. It however has been unable to load the DB2 JDBC classes necessary to call back the JDBC/SQL driver for cleanup processing following completion of the user class.

System action: The task is abnormally terminated with a CICS transaction dump.

User response: You need further assistance from IBM to resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFJCICS

AJ11

Explanation: The Java environment setup class, Wrapper, has detected that the user's class has used JDBC or SQLJ. It however has been unable to find the DB2 JDBC static method to call back the JDBC/SQL driver for cleanup processing following completion of the user class.

System action: The task is abnormally terminated with a CICS transaction dump.

User response: You need further assistance from IBM to resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFJCICS

AJ12

Explanation: The Java environment setup class, Wrapper, has detected that the user's class has used JDBC or SQLJ. It however has been unable to invoke the DB2 JDBC static method to call back the JDBC/SQL driver for cleanup processing following completion of the user class.

System action: The task is abnormally terminated with a CICS transaction dump.

User response: You need further assistance from IBM to resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFJCICS

AJ99

Explanation: The Java environment setup class, Wrapper, has detected an AbendException and issued setAbend. The abend code extracted from the AbendException is too long.

System action: Task abnormal termination continues with the abend code set to AJ99

User response: Correct the abend code String used to create the AbendException.

Module: DFJCICS

AJA0

Explanation: The native method SetAbendForCondition has been passed an invalid Resp value by the Wrapper class.

System action: The task is abnormally terminated with a CICS transaction dump.

User response: You need further assistance from IBM to resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFJCICS

AJAA

Explanation: The CREA/CREC transaction could not allocate the shared memory it required. The transaction will free all allocated memory and issue this abend.

System action: The transaction is terminated.

User response: Examine the trace to determine why the GETMAIN failed. If the CICS region was short on storage then take the necessary steps to correct this. If your region was not short on storage you may need help from IBM to resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHADDRM

AJAB

Explanation: The CREA/CREC transaction could not free the shared memory it allocated.

System action: The transaction is terminated.

User response: Examine the trace to determine why the FREEMAIN failed. You may need help from IBM to resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHADDRM

AJAC

Explanation: The CREA/CREC transaction browses the installed REQUESTMODELs. An attempt to start or continue the browse of the REQUESTMODELs failed with an unexpected return code.

System action: The transaction is terminated.

User response: Examine the trace to determine why the INQUIRE REQUESTMODEL call failed. You may need help from IBM to resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHADDRM

AJAD

Explanation: The CREA/CREC transaction received an unexpected return code from an EXEC CICS call and could not continue.

System action: The transaction is terminated.

User response: You need further assistance from IBM to resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHADDRM

AJAE

Explanation: The CREA/CREC transaction used the EXEC CICS SEND MAP call to display a BMS map. This call returned an expected return code.

System action: The transaction is terminated.

User response: Examine the trace to determine why the SEND MAP call. You may need help from IBM to resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed. failed.

Module: DFHADDRM

AJAF

Explanation: The CREA/CREC transaction used the EXEC CICS RECEIVE MAP call to receive data from a BMS map. This call returned an expected return code.

System action: The transaction is terminated.

User response: Examine the trace to determine why the RECEIVE MAP call failed. You may need help from IBM to resolve this problem. You need further assistance from IBM to resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHADDRM

AJAG

Explanation: The CREA/CREC transaction must be invoked using the transaction ID of 'CREA' or 'CREC'. You are not able to use another transaction ID to invoke DFHADDRM (the program invoked for the CREA/CREC transaction).

System action: The transaction is terminated.

User response: Use CREA or CREC to invoke the CREA/CREC transaction.

Module: DFHADDRM

AJCD

Explanation: An error (INVALID, DISASTER, or unexpected EXCEPTION response) has occurred on a call to the storage manager (SM) domain. The domain that detected the original error provides an exception trace, a console message, and possibly a system dump (depending on the options in the dump table).

System action: The task is abnormally terminated with a CICS transaction dump.

User response: See the related message from the domain that detected the original error.

Module: DFHJCP

AJCE

Explanation: The task was purged before a GETMAIN request to the storage manager (SM) domain was able to complete successfully. The domain that first detected the purged condition provides an exception trace.

System action: The task is abnormally terminated with a CICS transaction dump.

User response: Investigate why the task was purged. It was purged either as a result of a purge from the master terminal operator via the CEMT transaction, or by the task being timed out after waiting for longer than the DTIMOUT (deadlock timeout) value specified for the transaction.

If the master terminal operator purged the task, this may have been in an attempt to clear the system which appeared to be deadlocked for some reason.

If the task was timed out automatically as a result of the DTIMOUT value being exceeded, this may be due to insufficient main storage being available for the number of tasks in the system. If the amount of main storage cannot be increased, reduce the number of tasks in the system to avoid short-on-storage situations. Another possibility is to increase the value of the DTIMOUT option for the transaction.

Module: DFHJCP

AJCS

Explanation: An error (INVALID, DISASTER, or unexpected EXCEPTION response) has occurred on a call to the log manager (LM) domain. The domain that detected the original error provides an exception trace, a console message, and possibly a system dump (depending on the options in the dump table).

System action: The task is abnormally terminated with a CICS transaction dump.

User response: See the related message from the domain that detected the original error.

Module: DFHJCP

AJCT

Explanation: An error (INVALID, DISASTER, or unexpected EXCEPTION response) has occurred on a call to the recovery manager (RM) domain. The domain that detected the original error provides an exception trace, a console message, and possibly a system dump (depending on the options in the dump table).

System action: The task is abnormally terminated with a CICS transaction dump.

User response: See the related message from the domain that detected the original error.

Module: DFHJCP

AJCU

Explanation: A purge response has been received from either the log manager or or the recovery manager. The domain that detected the original purge condition provides an exception trace.

System action: The task is abnormally terminated with a CICS transaction dump.

User response: Investigate why the task was purged. It was purged either as a result of a purge from the master terminal operator via the CEMT transaction, or by the task being timed out after waiting for longer than the DTIMOUT (deadlock timeout) value specified for the transaction.

If the master terminal operator purged the task, this may have been in an attempt to clear the system which appeared to be deadlocked for some reason.

If the task was timed out automatically as a result of the DTIMOUT value being exceeded, this may be due to insufficient main storage being available for the number of tasks in the system. If the amount of main storage cannot be increased, reduce the number of tasks in the system to avoid short-on-storage situations. Another possibility is to increase the value of the DTIMOUT option for the transaction.

Module: DFHJCP

AJMB

Explanation: The CICS-JVM interface has rejected an attempt to invoke a Java program to run under control of a JVM because a previous JVM for the same CICS task terminated abnormally. The CICS-JVM interface is unable to create a JVM to run the Java program.

This error occurs when the previous JVM was terminated because of a Java program invoking the Java system.exit method and because errors occurred during the subsequent JVM termination. A system.exit invocation causes a forced termination of the JVM and the Language Environment enclave.

System action: The task is abnormally terminated with a CICS transaction dump.

User response: Examine why the previous JVM termination failed. Wherever possible avoid the use of system.exit to return from Java programs.

Module: DFHAPLJ

AKxx abend codes

AKC0

Explanation: An attempt has been made to run the CICS internal task CSSY as a user transaction.

System action: CICS terminates the task with a transaction dump.

User response: Investigate why the attempt was made to run CSSY as a user transaction.

Module: DFHAPATT

AKC1

Explanation: A DFHKC WAIT request was issued when the ECB was already marked as waiting.

System action: There is a probable user error. The transaction is abnormally terminated.

User response: Correct the program that issued the request.

Module: DFHXCP

AKC2

Explanation: A bad response has been received from a dispatcher (DS) domain call.

System action: The transaction is abnormally terminated with a transaction dump and a trace entry.

User response: Examine the trace entry for further information.

Module: DFHXCP

AKC3

Explanation: The task has been purged, probably due to operator action such as a CEMT TASK PURGE command. The task might also have been purged as a result of CICS issuing a purge request.

System action: The transaction is abnormally terminated with a transaction dump.

User response: Use the transaction dump to determine why the task was purged. In particular, if the purge was operator initiated, the dump should be useful in determining why this task needed to be explicitly purged.

Module: DFHXCP, DFHXMAT, DFHXMCL, DFHXMIQ, DFHXMTA

AKC6

Explanation: DFHKC RESUME should always be preceded by DFHKC SUSPEND. If this protocol is violated then the transaction is abnormally terminated with abend code AKC6.

System action: Transaction is abnormally terminated with abend code AKC6.

User response: Examine the trace entry for further information.

Module: DFHXCP

AKC8

Explanation: A bad response has been received from a call to the kernel (KE) domain during the processing of a task purge request.

System action: The transaction is abended with a transaction dump.

User response: Examine the dump and any exception trace entries for further information.

Module: DFHXCP

AKC9

Explanation: An incorrect response has been received from a call to the enqueue (NQ) domain during the processing of a DFHKC TYPE=ENQ or a DFHKC TYPE=DEQ request.

System action: The transaction is abnormally terminated with a transaction dump.

User response: Examine the dump and any exception trace entries for further information. Since the DFHKC service is only used for internal enqueues, this abend indicates an error in CICS. You need further assistance from IBM to resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHXCP

AKCB

Explanation: The CICS transaction manager restart task could not complete because a necessary step failed. The task has done some essential recovery operations and abnormally terminated itself with code AKCB.

System action: CICS writes a transaction dump for the transaction manager restart task.

CICS sends three messages to the console, one to identify the error detected by the transaction manager restart task, one to say that the task has failed, and one that gives you the option of cancelling CICS or letting it continue. Depending on the nature of the original error, you may see messages from some other system component (for example, an access method).

User response: Use the messages and dumps to find out the cause of the failure.

Module: DFHKCRP

AKCC

Explanation: The CICS transaction manager has abended the transaction because the purge threshold of its TRANCLASS has been reached. This is specified by the PURGETHRESH parameter on CEDA DEFINE TRANCLASS. See the *CICS Resource Definition Guide* manual for more details of this parameter.

System action: The transaction is abended and messages DFHAC2004 and DFHAC2236 are issued. The transaction dump is suppressed for this abend code.

User response: Resubmit the transaction. The cause of the abend may be a temporary stress condition in the system.

If the problem persists, determine why the TRANCLASS purge threshold has been reached. Ensure that PURGETHRESH has been specified correctly. Also, ensure that the MAXACTIVE value of the TRANCLASS has not been set too low. Transactions attached after the MAXACTIVE limit has been reached are immediately queued subject to the PURGETHRESH limit.

If PURGETHRESH and MAXACTIVE are set correctly, look for a more general problem which has caused a decrease in the capacity of the system to execute transactions in the TRANCLASS. The decrease might, for example, be caused by a connected CICS region which processes requests for transactions in the TRANCLASS, if this connected region has slowed down.

Examine all resources (files, links, storage, and so on) used by the transactions in the TRANCLASS which is reaching the purge threshold and determine why the

capacity of the system is reduced.

Module: DFHXMAT, DFHXMCL

AKCE

Explanation: While CICS transaction manager was recording changes to a transaction or profile definition, a write to the system log failed.

System action: CICS terminates the transaction with a transaction dump.

User response: Use the dumps to find out why the write to the log failed.

Module: DFHKCQ

AKCF

Explanation: While CICS transaction manager was recording changes to a profile definition, a write to the catalog failed.

System action: CICS terminates the transaction with a transaction dump.

User response: Use the dumps to find out why the write to the catalog failed.

Module: DFHKCQ

AKCR

Explanation: Transaction manager has received an invalid request code. The last AP F000 trace entry before the program control program (PCP) ABEND TRACE entry (TRACE ID 'F2', request code X'6000) will contain the invalid transaction manager request code in the fifth byte of the first section of the trace.

System action: The transaction is abnormally terminated with a CICS transaction dump.

User response: Determine the cause of the invalid request code and correct the problem.

Module: DFHXCP

AKCS

Explanation: A deadlock timeout condition has been detected. This condition may occur within a transaction that specifies DTIMOUT to be nonzero on its installed transaction definition. Deadlock timeout occurs when a transaction has been waiting or has been suspended for longer than the time specified in DTIMOUT.

The abend may be driven by a variety of internal CICS events, for example
- A short on storage condition
- A temporary storage shortage
- ENQUEUE
- An ALLOCATE request
- A RETRIEVE WAIT request.

The abend can also occur if CICS stops running for a time, for example while an sdump is taken. This is because deadlock timeout is based on total elapsed time, and not just the time CICS is executing.

Analysis: The transaction receiving the AKCS abend must have been suspended or must be waiting for a reason such as a short on storage, enqueued on a lock, a short on temporary storage, a suspend after RETRIEVE WAIT, a suspend after ALLOCATE, or an implicit ALLOCATE within function shipping or terminal sharing support. If none of these apply, the trace might reveal some event that has caused CICS to stop running for a time.

System action: The transaction is abnormally terminated. A dump is not provided unless the dump table entry for transaction dump code AKCS indicates that one should be taken.

User response: The transaction should be reexecuted, and the situation causing the SUSPEND to occur may clear itself.

The AKCS abend is to be expected occasionally, unless DTIMOUT is set to zero. No special action is necessary.

Module: DFHXCP

AKCT

Explanation: A terminal read-time-out condition has been detected. The transaction has been waiting for a terminal input message for an interval longer than specified in the RTIMOUT value for that transaction.

If an EXEC CICS HANDLE ABEND has been issued for this task, the read that was timed-out is still outstanding. To cancel this read you should issue an EXEC CICS ABEND at the end of the user exit routine so that CICS can clean up the terminal's TCTTE.

System action: The transaction is abnormally terminated. A transaction dump is not provided.

User response: This abend is a normal one. Coding RTIMOUT in the PROFILE entry asks for the task to be abnormally terminated if the terminal does not send input within the specified time.

Module: DFHXCP

AKCV

Explanation: A bad return code was passed as a result of the resume of a task suspended by ICP.

System action: The transaction is terminated with a dump.

User response: Check the response from the resume in the trace to determine the cause of the error.

Module: DFHALP

AKEA

Explanation: A program check has been detected by the kernel (KE) domain.

System action: If an application is in control, the ASRA abend is presented to the application. Otherwise, the functional recovery routine of the CICS module in control at the time is given control. This recovery routine produces suitable diagnostics and may terminate CICS.

User response: Look at the kernel domain section of the system dump to determine where the program check has occurred.

Module: DFHKESTX

AKEB

Explanation: An operating system abend has been detected by the kernel (KE) domain.

System action: If an application is in control, the ASRB abend is presented to the application. Otherwise, the functional recovery routine of the CICS module in control at the time is given control. This recovery routine produces suitable diagnostics and may terminate CICS.

User response: Check the console for any MVS messages that may have caused this abend.

Look at the kernel domain section of the system dump to determine where the abend has occurred.

Module: DFHKESTX

AKEC

Explanation: The kernel (KE) domain has detected runaway.

System action: If an application is in control, the AICA abend is presented to the application. Otherwise, the functional recovery routine of the CICS module in control at the time is given control. This recovery routine produces suitable diagnostics and may terminate CICS.

User response: Look at the kernel domain section of the system dump to determine where the runaway has occurred.

Module: DFHKESTX, DFHKERRU

AKED

Explanation: The kernel (KE) domain has been requested to initiate abend processing as a result of a deferred abend request.

System action: Abend processing starts for the task that is subject to the deferred abend request.

User response: The task is not abended with AKED but by an abend code specified by the requestor of the deferred abend. See the description of this abend for further guidance.

Module: DFHKEEDA

AKEF

Explanation: The kernel (KE) domain has detected an error while processing a domain call. The error may have been caused by a domain gate that was not yet active during initialization

System action: If an application is in control, the transaction terminates with a system dump. Otherwise, the functional recovery routine of the CICS module in control at the time is given control. This recovery routine produces suitable diagnostics and may terminate CICS.

User response: See any related messages from the kernel domain.

Look at the kernel domain section of the system dump to determine where the error has occurred. Check that a call has not been made to a domain gate that has not yet been made active. Check that the caller has not specified KERNERROR(YES).

If the abend occurs during CICS system initialization, ensure that the utility (DFHCCUTL) used to initialize the local catalog (DFHLCD) is at the correct level. A sample job is provided in SDFHINST(DFHDEFDS).

Module: DFHKERKE

AKEG

Explanation: The kernel (KE) domain issued an SM GETMAIN for kernel stack storage, but the GETMAIN request failed.

System action: If an application is in control, the transaction terminates with a system dump. Otherwise, the functional recovery routine of the CICS module in control at the time is given control. This recovery routine produces suitable diagnostics and may terminate CICS.

User response: Look at the kernel domain section of the system dump to determine why sufficient storage was not available.

If the short-on-storage condition persists, consider increasing the size limit of the CICS DSA. You can vary the DSA dynamically using the DSALIM parameter on the CEMT master terminal command.

Module: DFHKESGM

AKEH

Explanation: The transaction was purged while running outside the control of CICS.

System action: CICS terminates the transaction abnormally.

The EXEC CICS HANDLE ABEND command can not handle this abend.

User response: Investigate the reason why the transaction was purged.

Possible reasons are
- An operator purged the transaction
- The transaction was purged because DTIMEOUT has been exceeded
- Another transaction purged the transaction

Module: DFHKESTX

AKEJ

Explanation: A backlevel XPI call has been detected by the kernel (KE) domain.

System action: Additional error messages will be produced by CICS that identify the global user exit or task related user exit that made the backlevel XPI call.

If an AP domain global user exit or task related user exit issued the backlevel XPI call the ASRJ abend is presented to the application.

User response: Reassemble the exit program identified by the additional error messages using the latest CICS libraries.

Module: DFHKESTX

AKEI

Explanation: The kernel (KE) domain has detected runaway while the transaction is running outside the control of CICS.

System action: If an application is in control, the AICA abend is presented to the application. Otherwise, the functional recovery routine of the CICS module which was last in control at the time of runaway detection is given control. This recovery routine produces suitable diagnostics and may terminate CICS.

The EXEC CICS HANDLE ABEND command can not handle this abend.

User response: See the *CICS Problem Determination Guide* for guidance on dealing with loops.

Module: DFHKESTX

AKEX

Explanation: A program check has been detected by the kernel (KE) domain while executing under a TCB that is not enabled for EXEC CICS commands. This is probably because of an attempt to execute a CICS command in an environment where this is not possible.

System action: If an application is in control, the ASRA abend is presented to the application. Otherwise, the functional recovery routine of the CICS module in control at the time is given control. This recovery routine produces suitable diagnostics and may terminate CICS.

User response: Look at the kernel domain section of the system dump to determine where the program check has occurred.

Module: DFHKESTX

AKEZ

Explanation: A user attach has failed because there are insufficient kernel tasks available. This indicates an internal logic error.

System action: Message DFHKE0001 is issued and a system dump is taken. The attach of the user transaction fails.

User response: You need further assistance from IBM to resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHKETA

AKKA

Explanation: A kill request has been actioned when a transaction was not protected from purge or force purge. The transaction is either in a dispatcher suspend, the deferred abend processor is in control, the application is calling CICS, CICS is returning to the application, or the application is outside of the control of CICS.

System action: If an application is in control, the abend is presented to the application. Otherwise, the functional recovery module of the CICS module in control at the time is given control. This recovery routine produces diagnostics and might terminate CICS. This abend code cannot be handled by the application.

User response: Notify the system programmer to determine why the task has been killed.

Module: DFHDSSR, DFHKEEDA, DFHEIP, DFHKEDS

AKKB

Explanation: A kill request has been actioned when a transaction was not protected from forcepurge but was protected from purge. The transaction is either in a dispatcher suspend, the deferred abend processor is in control, the application is calling CICS, CICS is returning to the application, or the application is outside of the control of CICS.

System action: If an application is in control, the abend is presented to the application. Otherwise, the functional recovery module of the CICS module in control at the time is given control. This recovery routine produces diagnostics and might terminate CICS. This abend code cannot be handled by the application.

User response: Notify the system programmer to determine why the task has been killed.

Module: DFHDSSR, DFHKEEDA, DFHEIP, DFHKEDS

AKKC

Explanation: A kill request has been actioned when a transaction was protected from force purge. The transaction is either in a dispatcher suspend, the deferred abend processor is in control, the application is calling CICS, CICS is returning to the application, or the application is outside of the control of CICS.

System action: If an application is in control, the abend is presented to the application. Otherwise, the functional recovery module of the CICS module in control at the time is given control. This recovery routine produces diagnostics and might terminate CICS. This abend code cannot be handled by the application.

User response: Notify the system programmer to determine why the task has been killed.

Module: DFHDSSR, DFHKEEDA, DFHEIP, DFHKEDS

AKKD

Explanation: A CEKL purge has been requested. Abend processing has started for the task that is subject to the deferred abend request.

System action: The task is abended with abend code AKKD.

User response: Notify the system programmer to determine why the task has been purged.

Module: DFHKEEDA

AKKE

Explanation: A CEKL force purge has been requested. Abend processing has started for the task that is subject to the deferred abend request.

System action: The task is abended with abend code AKKE.

User response: Notify the system programmer to determine why the task has been purged.

Module: DFHKEEDA

AKKG

Explanation: The kernel (KE) domain has detected a kill request from the runaway exit program. The task was not protected from runaway when the kill request was actioned.

System action: If an application is in control, the abend is presented to the application. Otherwise, the functional recovery module of the CICS module in control at the time is given control. This recovery routine produces diagnostics and might terminate CICS. This abend code cannot be handled by the application.

User response: Notify the system programmer to determine why the task has been killed.

Module: DFHKESTX, DFHKERRU, DFHKEKIL

AKKH

Explanation: The kernel (KE) domain has detected a kill request from the runaway exit program. The task was protected from runaway when the request was actioned.

System action: If an application is in control, the abend is presented to the application. Otherwise, the functional recovery module of the CICS module in control at the time is given control. This recovery routine produces diagnostics and might terminate CICS. This abend code cannot be handled by the application.

User response: Notify the system programmer to determine why the task has been killed.

Module: DFHKESTX, DFHKERRU, DFHKEKIL

AKSE

Explanation: A user has generated an addition to the keyword table, but code has not been added to process this keyword.

System action: The transaction is abnormally terminated and a dump is taken.

User response: Add code to process the keyword.

Module: DFH99KC

ALxx abend codes

ALGA

Explanation: An error has occurred obtaining a lock within the log manager domain.

System action: The recovery routine of the module in control is invoked which issues message DFHLG0002 with a system dump. DFHLG0002 reports the module in control at the time of the error.

User response: See the description of message DFHLG0002 for further guidance.

Module: DFHLGGL, DFHLGJN, DFHLGLD, DFHLGST

ALGB

Explanation: An error has occurred releasing a lock within the log manager domain.

System action: The recovery routine of the module in control is invoked which issues message DFHLG0002 with a system dump. DFHLG0002 reports the module in control at the time of the error.

User response: See the description of message DFHLG0002 for further guidance.

Module: DFHLGGL, DFHLGJN, DFHLGLD, DFHLGST

ALGC

Explanation: A disaster response has been detected when processing the building block code used by the log manager.

System action: The recovery routine of the module in control is invoked which issues message DFHLG0002 with a system dump. DFHLG0002 reports the module in control at the time of the error.

User response: See the description of message DFHLG0002 for further guidance.

Module: DFHLGGL, DFHLGJN, DFHLGLD, DFHLGST

ALGD

Explanation: A disaster response has been detected when processing the building block storage interface code used by the log manager.

System action: The recovery routine of the module in control is invoked which issues message DFHLG0002 with a system dump. DFHLG0002 reports the module in control at the time of the error.

User response: See the description of message DFHLG0002 for further guidance.

Module: DFHLGCM, DFHLGGL, DFHLGJN, DFHLGLD, DFHLGST

ALGE

Explanation: An unexpected error has occurred while the log manager was attempting to find a journal model definition.

System action: The recovery routine of the module in control is invoked which issues message DFHLG0002 with a system dump. DFHLG0002 reports the module in control at the time of the error.

User response: See the description of message DFHLG0002 for further guidance.

Module: DFHLGJN

ALGF

Explanation: An unexpected error occurred when the log manager was attempting an enqueue or dequeue operation.

System action: The recovery routine of the module in control is invoked which issues message DFHLG0002 with a system dump. DFHLG0002 reports the module in control at the time of the error.

User response: See the description of message DFHLG0002 for further guidance.

Module: DFHLGGL, DFHLGJN, DFHLGST

ALGG

Explanation: Transaction CSQC has been issued from a terminal. This is not permitted. The transaction can only be started internally by CICS.

System action: The transaction is abnormally terminated.

User response: Do not try to invoke CSQC from a terminal.

Module: DFHLGQC

ALIC

Explanation: CICS has issued a GETMAIN request during the initialization phase for an application program in order to obtain run time execution storage for Language Environment above the 31-bit line. However insufficient storage was available to satisfy the request.

System action: CICS abnormally terminates the task. CICS processing continues.

User response: See the related message from the

Storage Manager domain where the original error was detected.

Module: DFHAPLI

ALID

Explanation: CICS has issued a GETMAIN request during the initialization phase for an application program in order to obtain run time execution storage for Language Environment below the 31-bit line. However insufficient storage was available to satisfy the request.

System action: CICS abnormally terminates the task. CICS processing continues.

User response: See the related message from the Storage Manager domain where the original error was detected.

Module: DFHAPLI

ALIF

Explanation: CICS has issued a GETMAIN request during the initialization phase for an application program in order to obtain thread storage for Language Environment. However insufficient storage was available to satisfy the request.

System action: CICS abnormally terminates the task. CICS processing continues.

User response: See the related message from the Storage Manager domain where the original error was detected.

Module: DFHAPLI

ALIG

Explanation: CICS has been unable to determine the language of the user application program about to be executed. Either the program was compiled against an old level of compiler that is no longer supported by CICS, or the language of the program is not supported by CICS.

System action: CICS abnormally terminates the task and disables the program. CICS processing continues.

User response: Ensure that the program to be run is written in one of the languages and compiled against a level of compiler supported by CICS. See the *CICS Application Programming Guide* for details of the languages and compilers currently supported.

Module: DFHAPLI

ALIH

Explanation: CICS has determined the language of a program to be VS COBOL II, but Language Environment has indicated that it is unable to execute the program. Normally Language Environment is able to execute VS COBOL II programs in compatibility code.

System action: CICS abnormally terminates the task and disables the program. CICS processing continues.

User response: Ensure that the program to be run is written in one of the languages supported by CICS and Language Environment, and compiled against a level of compiler supported by Language Environment. See the Language Environment Migration Guide for details of the languages and compilers currently supported, and any actions which may be necessary by the user such as re-compilation or re-linking.

Module: DFHAPLI

ALII

Explanation: CICS has determined the language of a program to be OS/PLI, but Language Environment has indicated that it is unable to execute the program. Normally Language Environment is able to execute OS/PLI programs in compatibility code.

System action: CICS abnormally terminates the task and disables the program. CICS processing continues.

User response: Ensure that the program to be run is written in one of the languages supported by CICS and Language Environment, and compiled against a level of compiler supported by Language Environment. See the Language Environment Migration Guide for details of the languages and compilers currently supported, and any actions which may be necessary by the user such as re-compilation or re-linking.

Module: DFHAPLI

ALIJ

Explanation: CICS has determined that an C or C++ program compiled with the XPLINK option is about to be executed but the program is defined with attribute CONCURRENCY(QUASIRENT). XPLINK programs execute on open TCBs and cannot rely on quasi-reentrancy. Code your programs to threadsafe standards and define to CICS with CONCURRENCY(REQUIRED).

System action: CICS abnormally terminates the task and disables the program. CICS processing continues.

User response: Ensure that the program is coded to threadsafe standards and defined as CONCURRENCY(REQUIRED), or recompile the program without the XPLINK option.

A program can be defined as threadsafe by using

standard CICS or CPSM resource definition facilities, using program autoinstall or a Language Environment runtime option. The runtime option can be specified in the source of the program by using a `#pragma runopts(ENVAR(CICSVAR=REQUIRED))` statement. Alternatively, you can specify `ENVAR=('CICSVAR=REQUIRED')` in a CEEUOPT CSECT which is then linkedited with the program.

Module: DFHAPLI

ALIK

Explanation: CICS has determined that an OS/VS COBOL program is about to be executed. However CICS no longer supports such programs.

System action: CICS abnormally terminates the task and disables the program. CICS processing continues.

User response: Ensure that the program is recompiled against a level of COBOL compiler supported by CICS. See the *CICS Application Programming Guide* for details of the languages and compilers currently supported.

Module: DFHAPLI

ALIL

Explanation: CICS has attempted to change to an OPEN TCB on which to execute the JAVA, XPLINK or OPENAPI program, but the change mode was unsuccessful. CICS may be short on storage and have insufficient storage to allow creation of the new TCB.

System action: CICS abnormally terminates the task. CICS processing continues.

User response: Check other messages from CICS to determine whether CICS is short on storage. Consider reducing MAXJVMTCBS, MAXXPTCBS, or MAXOPENTCBS to reduce the storage requirements from concurrent transactions

Module: DFHAPLI, DFHAPLJ, DFHAPLX

ALX1

Explanation: CICS has issued an initialize request to the Language Environment preinitialized services system (CEEPIPI). However, CEEPIPI has returned an error condition. This error strongly indicates an internal failure in Language Environment.

System action: CICS abnormally terminates the task. CICS processing continues.

User response: The full trace entry will indicate the return code from Language Environment. Consult the Language Environment Programming Guide manual for an explanation of the return code.

Module: DFHAPLX

ALX2

Explanation: CICS has issued an add_entry request to the Language Environment preinitialized services system (CEEPIPI). However, CEEPIPI has returned an error condition. This error strongly indicates an internal failure in Language Environment.

System action: CICS abnormally terminates the task. CICS processing continues.

User response: The full trace entry will indicate the return code from Language Environment. Consult the Language Environment Programming Guide manual for an explanation of the return code.

Module: DFHAPLX

ALX3

Explanation: CICS has issued a call_main request to the Language Environment preinitialized services system (CEEPIPI). However, CEEPIPI has returned an error condition. This error strongly indicates an internal failure in Language Environment.

System action: CICS abnormally terminates the task. CICS processing continues.

User response: The full trace entry will indicate the return code from Language Environment. Consult the Language Environment Programming Guide manual for an explanation of the return code.

Module: DFHAPLX

ALX4

Explanation: CICS has issued a remove_entry request to the Language Environment preinitialized services system (CEEPIPI). However, CEEPIPI has returned an error condition. This error strongly indicates an internal failure in Language Environment.

System action: CICS abnormally terminates the task. CICS processing continues.

User response: The full trace entry will indicate the return code from Language Environment. Consult the Language Environment Programming Guide manual for an explanation of the return code.

Module: DFHAPLX

ALX5

Explanation: CICS has issued a terminate request to the Language Environment preinitialized services system (CEEPIPI). However, CEEPIPI has returned an error condition. This error strongly indicates an internal failure in Language Environment.

System action: CICS abnormally terminates the task. CICS processing continues.

User response: The full trace entry will indicate the

return code from Language Environment. Consult the Language Environment Programming Guide manual for an explanation of the return code.

Module: DFHAPLX

AMxx abend codes

AMI1

Explanation: When the mirror task is resumed, a bad response other than a time out or a cancellation was given by the dispatcher.

System action: The mirror transaction is abnormally terminated with a transaction dump.

User response: Use the dump and the trace to determine the cause of the error.

Module: DFHMIRS

AMNA

Explanation: An exception response has been received from the monitoring (MN) domain while processing a user event monitoring point (EMP) request. The exception response is produced when the 4-byte DATA1 field in the user parameter contains an invalid address.

System action: The transaction is abnormally terminated with a CICS transaction dump.

User response: Use the transaction dump to determine why the DATA1 value passed to the monitoring (MN) domain was invalid.

Module: DFHCMP

AMNB

Explanation: An exception response has been received from the monitoring (MN) domain whilst processing a user event monitoring point (EMP) request. The exception response is produced when the 4-byte DATA2 field in the user parameter contains invalid data.

System action: The transaction is abnormally terminated with a CICS transaction dump.

User response: Use the transaction dump to determine why the DATA2 value passed to the monitoring (MN) domain was invalid.

Module: DFHCMP

AMNZ

Explanation: An unexpected error response has been received from the monitoring (MN) domain while processing a user event monitoring point (EMP) request.

System action: The transaction is abnormally terminated with a CICS transaction dump.

User response: This indicates a possible error in CICS code. An earlier CICS message is issued from the monitoring domain. Follow the user response for that message.

Module: DFHCMP

AMQA

Explanation: DFHMQCON had enabled DFHMQTRU with a global work area smaller than that needed by DFHMQTRU. This could be due to a mismatch of version level between DFHMQCON and DFHMQTRU.

System action: The transaction is abnormally terminated with a CICS transaction dump.

User response: Check that the versions of DFHMQCON and DFHMQTRU are compatible. If you are unable to solve the problem, contact your IBM support center.

Module: DFHMQTRU

AMQB

Explanation: DFHMQCON had enabled DFHMQTRU with a task local work area smaller than that needed by DFHMQTRU. This could be due to a mismatch of version level between DFHMQCON and DFHMQTRU.

System action: The transaction is abnormally terminated with a CICS transaction dump.

User response: Check that the versions of DFHMQCON and DFHMQTRU are compatible. If you are unable to solve the problem, contact your IBM support center.

Module: DFHMQTRU

AMQC

Explanation: Unrecognizable WebSphere® MQ API call. All supported API calls are documented in the *WebSphere MQ Application Programming Reference* manual.

System action: The transaction is abnormally terminated with a CICS transaction dump.

User response: See the *WebSphere MQ Application Programming Reference* manual for details of the supported WebSphere MQ API.

Module: DFHMQTRU

AMQD

Explanation: Unrecognizable RMI API call. The CICS-MQ task related user exit (TRUE) was invoked with an unrecognizable request type.

System action: The transaction is abnormally terminated with a CICS transaction dump.

User response: Contact your IBM support center.

Module: DFHMQTRU

AMQE

Explanation: An attempt to EXEC CICS LOAD the data conversion service module CSQAVICM was unsuccessful.

System action: The transaction is abnormally terminated with a CICS transaction dump.

User response: Ensure that the WebSphere MQ SCSQAUTH library has been specified in the CICS DFHRPL concentation and that CSQAVICM is defined as a program to CICS. A definition for CSQAVICM is supplied in the DFHMQ CSD group.

Module: DFHMQCON

AMQF

Explanation: An internal logic error has been detected in the CICS bridge monitor.

System action: Message DFHMQ0750 is written to the CICS CSMT transient data queue and the CICS bridge monitor task is ended abnormally.

User response: See the description of message DFHMQ0750 for more information.

Module: DFHMQBR0

AMQG

Explanation: The CICS DPL bridge program has detected an error in a request message for this unit of work.

System action: All request messages for this unit of work are copied to the dead-letter queue with an MQFB_CICS_* reason code. Corresponding error messages are written to the CICS CSMT transient data queue. An MQCRC_BRIDGE_ERROR reply is sent to the reply-to queue if requested. The CICS bridge task is ended abnormally.

User response: See the description of the accompanying messages for more information.

Module: DFHMQBP0

AMQH

Explanation: The CICS bridge monitor or DPL bridge program abended due to an unexpected return code from an EXEC CICS API call.

System action: Message DFHMQ0704 is written to the CICS CSMT transient data queue and the CICS bridge monitor or DPL bridge program is abnormally terminated.

User response: See the description of message DFHMQ0704 for more information.

Module: DFHMQBR2

AMQI

Explanation: The CICS bridge monitor or DPL bridge program abended due to an unexpected return code from an MQ API call.

System action: Message DFHMQ0710 is written to the CICS CSMT transient data queue and the CICS bridge monitor or DPL bridge program is abnormally terminated.

User response: See the description of message DFHMQ0710 for more information.

Module: DFHMQBP2

AMQJ

Explanation: The CICS DPL bridge program abended before processing any messages for the unit of work.

System action: All request messages for this unit of work are left on the CICS bridge queue to be handled by the CICS bridge monitor.

User response: See the description of the accompanying messages for more information.

Module: DFHMQBP2

AMQK

Explanation: The CICS DPL bridge program abended during error processing.

System action: An unexpected error occurred during CICS DPL bridge error processing.

User response: See the description of the accompanying messages for more information. If the problem reoccurs, contact your IBM support center.

Module: DFHMQBP2

AMQM

Explanation: DFHMQBP0 attempted to process a Link3270 Bridge request but received an unspecified error. This abend code is only ever issued within message DFHMQ0778.

System action: Input messages are backed out to the backout-requeue queue or dead-letter queue.

User response: Examine the CICS log immediately prior to the DFHMQ0778 message for further information on the type of error encountered. If the problem reoccurs, contact your IBM support center.

Module: DFHMQBP0

AMQN

Explanation: The Link3270 bridge has returned one or more bridge vectors. DFHMQBP0 has detected that one of the bridge vector lengths is invalid.

System action: The transaction is abended. Input messages are backed out to the backout-requeue queue or dead-letter queue.

User response: Check whether a transaction HANDLE ABEND routine has recovered from a 3270 Bridge abend and suppressed the abend. If this is the case the HANDLE ABEND routine should be coded to allow the 3270 Bridge abend to continue by reissuing the abend. If the problem reoccurs, contact your IBM support center.

Module: DFHMQBP0

AMSA

Explanation: An input data stream received from a 3270 begins with a set buffer address (SBA) order but is not followed by two 1-byte address fields. This is probably due to a hardware error.

System action: The transaction is abnormally terminated with a CICS transaction dump.

User response: It may be possible to bypass the problem by entering two spaces before the data to be entered.

If the problem persists, you need further assistance. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHMSP

AMSB

Explanation: An internal logic error has been detected in module DFHMSP.

System action: The transaction is abnormally terminated with a CICS transaction dump.

User response: Retry the CMSG transaction, specifying operands in a different order. If this fails, keep the dump and contact your IBM Support Center.

Module: DFHMSP

AMSC

Explanation: The task was purged before a GETMAIN request to the storage manager (SM) domain was able to complete successfully. The task that first detected the purged condition will have provided an exception trace.

System action: The task is abnormally terminated with a CICS transaction dump.

User response: Investigate why the task was purged. This is either as a result of a purge from the master terminal operator via the CEMT transaction, or by the task being timed out after waiting for longer than the DTIMOUT (deadlock timeout) value specified for the transaction.

If the master terminal operator purged the task, this may have been in an attempt to clear the system which appeared to be deadlocked for some reason.

If the task was timed out automatically as a result of the DTIMOUT value being exceeded, this may be due to insufficient main storage being available for the number of tasks in the system. If the amount of main storage cannot be increased, reduce the number of tasks in the system to avoid short-on-storage situations. Another possibility is to increase the value of the DTIMOUT option for the transaction.

Module: DFHMSP

AMSD

Explanation: An error (INVALID, DISASTER, or unexpected EXCEPTION response) has occurred on a call to the storage manager (SM) domain. The domain that detected the original error provides an exception trace, a console message and, possibly, a system dump (depending on the options specified in the dump table).

System action: The task is abnormally terminated with a CICS transaction dump.

User response: See the related error message produced by the domain that detected the original error.

Module: DFHMSP

ANxx abend codes

ANQA

Explanation: An error has occurred obtaining a lock within the enqueue domain.

System action: The recovery routine of the module in control is invoked which issues message DFHNQ0002 with a system dump. DFHNQ0002 reports the module in control at the time of the error.

User response: See the description of message DFHNQ0002 for further guidance.

Module: DFHNQED, DFHNQIB, DFHNQNQ, DFHNQST

ANQB

Explanation: An error has occurred releasing a lock within the enqueue domain.

System action: The recovery routine of the module in control is invoked. This routine issues message DFHNQ0002 with a system dump. DFHNQ0002 reports the module in control at the time of the error.

User response: See the description of message DFHNQ0002 for further guidance.

Module: DFHNQED, DFHNQIB, DFHNQNQ, DFHNQST

ANQC

Explanation: An error has occurred obtaining a sysplex enqueue. The limit for the number of concurrent sysplex resource ENQ requests has been reached.

System action: Module DFHNQED issues message DFHNQ0103 and the task issuing the EXEC ENQ request is abended.

User response: See the description of message DFHNQ0103 for further guidance.

Module: DFHNQED

ANQD

Explanation: An error has occurred obtaining a sysplex enqueue. An unexpected environmental error has been detected.

System action: Module DFHNQED issues message DFHNQ0104 and the task issuing the EXEC ENQ request is abended.

User response: See the description of message DFHNQ0104 for further guidance.

Module: DFHNQED

ANQE

Explanation: An EXEC ENQ has been issued on a resource for which the enqmodel is either disabled or in the waiting state.

System action: Module DFHNQRN issues message DFHNQ0105 and the task issuing the EXEC ENQ request is abended.

User response: See the description of message DFHNQ0105 for further guidance.

Module: DFHNQRN

ANQF

Explanation: An EXEC CICS ENQ request has been issued too early during transaction initialization, before a recoverable transaction environment has been established.

System action: The transaction is abnormally terminated.

User response: This error should only occur when an exit such as the 3270 Bridge Exit is executing. If the exit program is written in a high level language, the ENQ may have been issued by Language Environment.

Module: DFHEKC

ANSA

Explanation: An error has occurred obtaining the numberspace lock within the AP domain.

System action: The recovery routine of the module in control is invoked which issues message DFHAP0002 with a system dump. DFHAP0002 reports the module in control at the time of the error.

User response: See the description of message DFHAP0002 for further guidance.

Module: DFHBRNS

ANSB

Explanation: An error has occurred releasing a lock within the AP domain.

System action: The recovery routine of the module in control is invoked which issues message DFHAP0002 with a system dump. DFHAP0002 reports the module in control at the time of the error.

User response: See the description of message DFHAP0002 for further guidance.

Module: DFHBRNS

AOxx abend codes

AOTA

Explanation: The OT domain resynchronization transaction CJTR has been started in an incorrect manner (for example, from a user terminal, or by a start request). This is not permitted.

System action: The task is abnormally terminated with a transaction dump.

User response: None. The OT domain resynchronization transaction must be started internally by CICS.

Module: DFHOTR

AOTB

Explanation: An unexpected error was encountered by the OT domain resynchronization transaction CJTR. The domain that detected the original error will have provided an exception trace, a console message and, possibly, a system dump (depending on the options specified in the dump table).

System action: The task is abnormally terminated with a CICS transaction dump.

User response: See the related message produced by the domain that detected the original error.

Module: DFHOTR

APxx abend codes

APC0

Explanation: A serious error occurred in a call to the program manager domain when trying to link a system program.

System action: CICS terminates the task with a transaction dump.

User response: Use the dump to investigate why the error occurred. Look at the trace records prior to the error for abnormal conditions in processing the PGLK domain call. This may be due to a problem with directory manager, loader, or storage manager. Check the program size. It may be necessary to increase the overall size limits of the DSAs or EDSAs.

Module: DFHEICRE, DFHEIDEF, DFHEIDEL, DFHEIINS, DFHPCP, DFHMCY

APC1

Explanation: A request for a TGT exceeding 64KB has been detected.

System action: CICS abnormally terminates the transaction and disables the installed program definition.

User response: Change the application program to reduce the working storage requirement. Perform CEMT NEWCOPY and ENABLE for the program when it has been corrected.

Module: DFHAPLI

APC2

Explanation: An illegal branch has been attempted by a Language Environment user program following an abend condition with an active handle label abend. Usually an Out-Of-Block GOTO will have resulted, implying that the program tried to branch to, for example, an inactive block.

System action: The transaction is abnormally terminated and the program is disabled.

User response: Use the dump and trace to determine the cause of the error and amend the GOTO in error.

Module: DFHAPLI

APC3

Explanation: An attempt to run the program has failed because CICS has identified the program as 'Language Environment enabled' but Language Environment support is not present in the system.

System action: The transaction is abnormally terminated and the program is disabled.

User response: Refer to messages issued during CICS initialization to determine why Language Environment is not present in the system.

Module: DFHAPLI

APCF

Explanation: A CICS task has invoked a program which was defined as PL/I, but the program was not compiled with a supported PL/I compiler, or the program may not be written in the PL/I language.

System action: CICS terminates the task, and disables the program.

User response: Check that the program is PL/I. If the program is PL/I, recompile it with a Language

Environment® conforming compiler such as VisualAge® PL/I for z/OS in which case you may need to change the source program. If the program is not PL/I, redefine it correctly.

Module: DFHAPLI

APCG

Explanation: The transaction was purged either by master terminal actions or due to deadlock timeout actions as part of a request to the loader for a usable program copy. Deadlock timeout could be caused by a program whose size exceeds the available space in the DSAs or EDSAs.

System action: CICS terminates the task with a transaction dump.

User response: Use the dump to investigate why the transaction was purged. This may be due to waiting for loader resources or for program storage. Check the program size. It may be necessary to increase the overall size limits of the DSAs or EDSAs.

Module: DFHACP, DFHCRNP, DFHCRSP, DFHDBCT, DFHDBDSC, DFHEDFP, DFHEIP, DFHEICRE, DFHEIDEF, DFHEIDEL, DFHEIINS, DFHEIPSH, DFHEIQIR, DFHEIQSJ, DFHFCRP, DFHFEP, DFHICP, DFHKCQ, DFHMCP, DFHMCPE, DFHMCY, DFHMSP, DFHPCPG, DFHPHP, DFHPSIP, DFHPUP, DFHRDCAL, DFHRTC, DFHSII1, DFHSIJ1, DFHSPP, DFHSTP, DFHTACP, DFHTBSGB, DFHTCRP, DFHTDX, DFHTFP, DFHTSPA, DFHTSRP, DFHUSBP, DFHXRCP, DFHXRE, DFHXRSP, DFHZATA, DFHZATD, DFHZCPLN, DFHZGAI, DFHZQ00, DFHZNCA, DFHZOPA, DFHZXCU

APCH

Explanation: A request for a program which CICS has identified as VS COBOL II cannot be executed because either Language Environment is not active in this address space or Language Environment cannot provide support for the COBOL language.

System action: The transaction is abnormally terminated and the program is disabled.

User response: Ensure that the correct Language Environment support is present. Refer to messages issued during CICS initialization to determine why COBOL support is not present.

Module: DFHAPLI

APCI

Explanation: A request for a program which CICS as identified as an OS/PLI program cannot be executed because either Language Environment is not active in this address space or Language Environment cannot provide support for the PL/I language.

System action: The transaction is abnormally terminated and the program is disabled.

User response: Ensure that the correct Language Environment support is present. Refer to messages issued during CICS initialization to determine why PL/I support is not present.

Module: DFHAPLI

APCJ

Explanation: A request for a C/370™ program could not be executed either because Language Environment was unable to recognize the program as having been compiled under the C/370 Compiler, or because the program was not link-edited with the attribute AMODE(31).

System action: The transaction is abnormally terminated and the program is disabled.

User response: Ensure that the program is link-edited with the attribute AMODE(31). If necessary, recompile the program with a Language Environment conforming compiler such as z/OS C/C++.

Module: DFHAPLI

APCK

Explanation: A request for a C program could not be honored either because Language Environment is not active in this address space or because Language Environment cannot provide support for the C language.

System action: The transaction is terminated abnormally and the program is disabled.

User response: Ensure that the correct Language Environment support is present. Refer to messages issued during CICS initialization to determine why C support is not present.

Module: DFHAPLI

APCL

Explanation: A request for a program which CICS has identified as 'LE-enabled' has failed because Language Environment is unable to execute the program.

System action: The transaction is abnormally terminated and the program is disabled.

User response: Ensure that the program has been compiled either with a Language Environment conforming compiler or with a compiler which is supported by Language Environment in compatibility mode. Refer to the Language Environment Migration Guide to verify this conformance.

If the compiler is supported, and the relevant language migration guides do not indicate any special actions,

refer this problem to your installation systems programming facility.

Module: DFHAPLI

APCN

Explanation: An attempt to release an internal CICS program, a mapset, or a partitionset because the program, mapset or partitionset has not been loaded or has already been deleted. This is probably an internal CICS error.

System action: The transaction is abnormally terminated with a CICS transaction dump. The name of the program for which the RELEASE was attempted can be found in the abend dump at TCAPCPI.

User response: This is either an internal CICS error or is due to the overwriting of CICS internal control blocks. You need further assistance from IBM to resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHAMPEN, DFHFEP, DFHMCP, DFHMCPE, DFHMCY, DFHPHP, DFHTBSSP, DFHZCPLN

APCO

Explanation: A GETMAIN of storage for LEVEL 2 trace failed during transaction initialization.

System action: The transaction is abnormally terminated with a CICS transaction dump.

User response: See the related message from the domain that detected the original error.

Module: DFHAPXM

APCS

Explanation: An attempt to run the program failed because CICS was unable to make a successful connection with Language Environment to determine the run-time characteristics of the program. This abend is accompanied by message DFHAP1200 which gives the reason code set by Language Environment indicating the nature of the error.

System action: The transaction is abnormally terminated and the program is disabled.

User response: Refer to the Language Environment *Debugging Guide and Runtime Messages* manual for the meaning of the reason code, and take whatever action is necessary to correct the error.

Module: DFHAPLI

APCT

Explanation: One of the following has occurred

1. The program name in the EXEC CICS HANDLE ABEND program is not usable at the time an abend occurs because
   - The program is not on the relocatable program library (RPL).
   - The program is disabled.
   - The program cannot be loaded.
2. An attempt to load a mapset or partitionset failed because although the program is defined to CICS
   - It is not available on the RPL, or
   - It is disabled, or
   - It cannot be autoinstalled.
3. An attempt to link to, load, or release an internal CICS program failed because
   - The program is not on the RPL.
   - The program is disabled.
   - The program cannot be loaded.

System action: The transaction requiring the program is abnormally terminated with a CICS transaction dump.

User response: In cases 1 and 2, define the program, mapset partitionset to CICS using CEDA and ensure it is enabled.

In case 3, the definition of a CICS-provided module is incorrect. Check for associated messages issued during CICS start up.

Problem determination: The trace preceding the abend indicates the program, mapset, or partitionset that could not be loaded, linked to, or released. The name is also in TCAPCEPI.

Module: DFHACP, DFHAMPEN, DFHCRSP, DFHEDFP, DFHEIP, DFHEICRE, DFHEIDEF, DFHEIDEL, DFHEIINS, DFHEIPSH, DFHEIQSJ, DFHFEP, DFHICP, DFHMCP, DFHMCPE, DFHMCY, DFHMELDE, DFHPCPG, DFHPHP, DFHPUP, DFHRDCAL, DFHSII1, DFHTBSGB, DFHTFP, DFHTSRP, DFHZCPLN, DFHZQ00, DFHZXCU

APCW

Explanation: The program language is defined as COBOL but the level of the compiler under which it is compiled cannot be determined. Most probably, the program was compiled under an OS/VS COBOL compiler but the required level of support for that compiler is not present in the system.

System action: The transaction is abnormally terminated and the program is disabled.

User response: The program source must be converted and compiled with a Language Environment conforming COBOL compiler such as Enterprise COBOL.

Module: DFHAPLI

APCY

Explanation: In an MVS/ESA environment, a CICS macro request has been issued from a PL/I or COBOL application. Alternatively, it is possible that the application program has been link edited without the EXEC interface module (for example, DFHECI or DFHELII) which is used by the CICS high-level language programming interface. See the *CICS System Definition Guide* for details of what has to be done to include this module.

System action: The transaction is abnormally terminated and the program is disabled.

User response: Remove the macro request from the application program.

Module: DFHAPLI

APCZ

Explanation: An attempt was made to run an 'old-style' application program (a program with a pre-release 1.6 or a DFHE program stub), that was link-edited with the RENT or REFR attribute. These types of programs are not reentrant and therefore cannot be loaded into read-only storage.

System action: The transaction is abnormally terminated.

User response: Relink the program without the RENT and REFR attributes.

Module: DFHAPLI

APGA

Explanation: An error has occurred obtaining a lock within the Program Manager domain.

System action: CICS abnormally terminates the task. CICS processing continues.

User response: Contact your local IBM support center for assistance.

Module: DFHPGAI, DFHPGAQ, DFHPGDD, DFHPGDM, DFHPGEX, DFHPGIS, DFHPGLD, DFHPGLE, DFHPGLK, DFHPGLU, DFHPGPG, DFHPGRE, DFHPGRP, DFHPGST, DFHPGUE, DFHPGXE, DFHPGXM

APGB

Explanation: An error has occurred releasing a lock within the Program Manager domain.

System action: CICS abnormally terminates the task. CICS processing continues.

User response: Contact your local IBM support center for assistance.

Module: DFHPGAI, DFHPGAQ, DFHPGDD, DFHPGDM, DFHPGEX, DFHPGIS, DFHPGLD, DFHPGLE, DFHPGLK, DFHPGLU, DFHPGPG, DFHPGRE, DFHPGRP, DFHPGST, DFHPGUE, DFHPGXE, DFHPGXM

APGC

Explanation: A transaction has tried to allocate an excessive amount of storage for containers. A transaction must not allocate more than 5% of the storage available for holding containers above the bar.

System action: CICS abnormally terminates the task. CICS processing continues.

User response: If the program is incorrect, correct it to allocate less container storage. If the program is correct, increase MEMLIMIT so that the program does not use more than 5% of the storage available.

Module: DFHPGCR

APIA

Explanation: The transaction id (CPIH) of the Pipeline Inbound HTTP router program has been initiated invalidly, probably by entering the id at a terminal. This transaction must only be initiated by CICS internal processes.

System action: The transaction is abnormally terminated.

User response: Do not initiate CPIH directly.

Module: DFHPIDSH

APIB

Explanation: The Pipeline HTTP outbound router program received an error response from the Pipeline Manager when it started the pipeline.

System action: The outbound router program is abnormally terminated.

User response: Examine the trace and associated messages to determine why the Pipeline Manager failed to start successfully.

Module: DFHPIRT

APIC

Explanation: The Pipeline HTTP outbound router program received an error response from its attempt to do an EXEC CICS GET CONTAINER call to obtain the pipeline name from the DFHWS-PIPELINE container. Both a trace and message DFHPI0998 are issued and these will be an indication of what the error was. If the trace point id is '09DD'x then a CONTAINERERR was returned to DFHPIRT. A point id of '09DE'x indicates that a LENGERR was returned.

System action: The outbound router program is abnormally terminated.

User response: Examine the trace and associated messages to determine why the Pipeline failed to start successfully.

Module: DFHPIRT

APIG

Explanation: A provider mode Web service invocation has failed. This may be due to a problem whilst processing a SOAP request message or generating a SOAP response message.

System action: CICS abends the transaction and a SOAP Fault message is sent to the requester.

User response: Examine the CICS trace for exception traces issued from DFHPITL. These will identify the source of the failure. If validation is currently disabled for the failing WEBSERVICE then consider enabling it and reproduce the problem. This causes CICS to call a Java based program to validate the SOAP message against the WSDL for the WEBSERVICE. If the SOAP message is malformed then a message will be issued to describe the problem in more detail.

Module: DFHPITP

APIH

Explanation: The transaction id (CPIL) of the Pipeline MQ Listener program has been initiated invalidly, probably by entering the id at a terminal. This transaction must only be initiated by being triggered by an inbound Websphere MQ message.

System action: The transaction is abnormally terminated with a CICS transaction dump.

User response: Do not initiate CPIL directly.

Module: DFHPILSQ

APII

Explanation: An attempt has been made to use Websphere MQ as the transport for CICS Web Services, but the Websphere MQ stub CSQCSTUB could not be loaded during CICS Initialisation. The Websphere MQ library CSQCLOAD needs to be included in the DFHRPL concatenation to permit use of Websphere MQ as a transport for CICS Web Services

System action: The attempt to use Websphere MQ as a transport for CICS Web Services has been rejected. Any further such attempts will also be rejected.

Message DFHAP0900 is produced.

The task is abnormally terminated with a CICS transaction dump.

User response: The Websphere MQ library CSQCLOAD must be included in the DFHRPL concatenation to allow use of Websphere MQ as a transport for CICS Web Services. This is in addition to the other Websphere MQ libraries needed for MQ support in CICS.

Module: DFHPILSQ

APIJ

Explanation: A Websphere MQ function call issued by transaction CPIL was unsuccessful and has set a non-zero reason code. The transaction CPIL is used to start a PIPELINE for a message received from Websphere MQ.

System action: Message DFHPI0111 is produced, which includes the Websphere MQ reason code. The task is abnormally terminated with a CICS transaction dump.

User response: Check the Websphere MQ reason code in the MQ Messages and Codes manual, and examine the trace to determine why the MQ function call failed. You may need help from IBM to resolve this problem.

Module: DFHPILSQ

APIK

Explanation: The CICS supplied SOAP Handler received an unexpected response from another module.

System action: CICS attempts to run the pipeline in an error mode. No dump is taken.

User response: Examine the CICS joblog for associated messages.

Module: DFHPISN

APIL

Explanation: The CICS supplied SOAP Handler has failed with a disaster response.

System action: CICS attempts to run the pipeline in an error mode. A dump is taken.

User response: Keep the dump and contact your IBM Support Center.

Module: DFHPISN

APIM

Explanation: The transaction id (CPIQ) of the Pipeline Inbound MQ router program has been initiated invalidly, probably by entering the id at a terminal. This transaction must only be initiated by CICS internal processes.

System action: The transaction is abnormally terminated.

User response: Do not initiate CPIQ directly.

Module: DFHPIDSQ

APIN

Explanation: The Web Services Atomic Transaction (WS-AT) handler has detected a problem. The transaction id (CPIS) of the Pipeline WSAT resync program has been initiated invalidly, probably by entering the id at a terminal. This transaction must only be initiated by CICS internal processes.

System action: The transaction is abnormally terminated.

User response: Do not initiate CPIS directly.

Module: DFHPIR

APIO

Explanation: The Web Services Atomic Transaction (WS-AT) handler has detected a problem. The WSAT Registration Services program has encountered an error, which has prevented it from completing the processing of a registration or 2PC protocol request. The program is abnormally terminated.

User response: Examine the trace and associated messages to determine why the Registration Services program has failed.

Module: DFHPIRS

APIP

Explanation: The Web Services Atomic Transaction (WS-AT) handler has detected a problem. The WSAT Coordination Context header handler program has encountered an unrecoverable error, which has prevented it from successfully creating or processing a coordination context. The program is abnormally terminated.

User response: Examine the trace and associated messages to determine why the Coordination Services program has failed.

Module: DFHWSATH

APIQ

Explanation: The Web Services Atomic Transaction (WS-AT) handler has detected a problem. The WSAT application handler program has encountered an unrecoverable error, which has prevented it from creating or processing a registration message or a protocol message. The program is abnormally terminated.

User response: Examine the trace and associated messages to determine why the Registration/Protocol Services program has failed.

Module: DFHWSATX.

APIR

Explanation: The Web Services Atomic Transaction (WS-AT) handler has detected a problem. The WSAT application handler program has encountered an attempt to use one-way messages in a WS-AT message. This combination is not permitted in WS-AT. The program is abnormally terminated.

User response: Examine the trace and associated messages to determine which messages are at fault.

Module: DFHWSATH.

APIS

Explanation: CICS detected an error during transaction initialization for a Web services task.

System action: The transaction is abnormally terminated.

User response: Examine the trace to determine the root cause of this problem.

Module: DFHPIXM.

APIT

Explanation: The Web Services Atomic Transaction (WS-AT) handler has detected a problem. The attempt to resynchronize outstanding units of work has failed.

System action: The transaction is abnormally terminated.

User response: Investigate why the UOWs cannot be resynchronized.

Module: DFHPIR

APIU

Explanation: The Pipeline MQ Listener program has encountered an attempt to parse a target URI that is longer than 255 bytes. The maximum length of a target URI in the RFH2 header is expected to be 255 bytes.

System action: The program is abnormally terminated.

User response: Examine the trace and associated messages to determine which messages are at fault.

Module: DFHPILSQ.

APL0

Explanation: Abend codes with 'PL' as the middle two characters are issued by PL/I, and are described in further detail in the *OS PL/I Optimizing Compiler: Programmer's Guide*.

APL1

Explanation: Abend codes with 'PL' as the middle two characters are issued by PL/I, and are described in further detail in the *OS PL/I Optimizing Compiler: Programmer's Guide*.

APL2

Explanation: Abend codes with 'PL' as the middle two characters are issued by PL/I, and are described in further detail in the *OS PL/I Optimizing Compiler: Programmer's Guide*.

APL3

Explanation: Abend codes with 'PL' as the middle two characters are issued by PL/I, and are described in further detail in the *OS PL/I Optimizing Compiler: Programmer's Guide*.

APL4

Explanation: Abend codes with 'PL' as the middle two characters are issued by PL/I, and are described in further detail in the *OS PL/I Optimizing Compiler: Programmer's Guide*.

APL5

Explanation: Abend codes with 'PL' as the middle two characters are issued by PL/I, and are described in further detail in the *OS PL/I Optimizing Compiler: Programmer's Guide*.

APL6

Explanation: Abend codes with 'PL' as the middle two characters are issued by PL/I, and are described in further detail in the *OS PL/I Optimizing Compiler: Programmer's Guide*.

APL7

Explanation: Abend codes with 'PL' as the middle two characters are issued by PL/I, and are described in further detail in the *OS PL/I Optimizing Compiler: Programmer's Guide*.

APL8

Explanation: Abend codes with 'PL' as the middle two characters are issued by PL/I, and are described in further detail in the *OS PL/I Optimizing Compiler: Programmer's Guide*.

APL9

Explanation: Abend codes with 'PL' as the middle two characters are issued by PL/I, and are described in further detail in the *OS PL/I Optimizing Compiler: Programmer's Guide*.

APLA

Explanation: Abend codes with 'PL' as the middle two characters are issued by PL/I, and are described in further detail in the *OS PL/I Optimizing Compiler: Programmer's Guide*.

APLB

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APLC

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APLD

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APLE

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APLF

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APLG

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APLH

Explanation: Abend codes with 'PL' as the middle two characters are issued by PL/I, and are described in further detail in the *OS PL/I Optimizing Compiler: Programmer's Guide*.

APLI

Explanation: Abend codes with 'PL' as the middle two characters are issued by PL/I, and are described in further detail in the *OS PL/I Optimizing Compiler: Programmer's Guide*.

APLJ

Explanation: Abend codes with 'PL' as the middle two characters are issued by PL/I, and are described in further detail in the *OS PL/I Optimizing Compiler: Programmer's Guide*.

APLK

Explanation: Abend codes with 'PL' as the middle two characters are issued by PL/I, and are described in further detail in the *OS PL/I Optimizing Compiler: Programmer's Guide*.

APLL

Explanation: Abend codes with 'PL' as the middle two characters are issued by PL/I, and are described in further detail in the *OS PL/I Optimizing Compiler: Programmer's Guide*.

APLM

Explanation: Abend codes with 'PL' as the middle two characters are issued by PL/I, and are described in further detail in the *OS PL/I Optimizing Compiler: Programmer's Guide*.

APLN

Explanation: Abend codes with 'PL' as the middle two characters are issued by PL/I, and are described in further detail in the *OS PL/I Optimizing Compiler: Programmer's Guide*.

APLO

Explanation: Abend codes with 'PL' as the middle two characters are issued by PL/I, and are described in further detail in the *OS PL/I Optimizing Compiler: Programmer's Guide*.

APLP

Explanation: Abend codes with 'PL' as the middle two characters are issued by PL/I, and are described in further detail in the *OS PL/I Optimizing Compiler: Programmer's Guide*.

APLQ

Explanation: Abend codes with 'PL' as the middle two characters are issued by PL/I, and are described in further detail in the *OS PL/I Optimizing Compiler: Programmer's Guide*.

APLR

Explanation: Abend codes with 'PL' as the middle two characters are issued by PL/I, and are described in further detail in the *OS PL/I Optimizing Compiler: Programmer's Guide*.

APLS

Explanation: Abend codes with 'PL' as the middle two characters are issued by PL/I, and are described in further detail in the *OS PL/I Optimizing Compiler: Programmer's Guide*.

APLT

Explanation: Abend codes with 'PL' as the middle two characters are issued by PL/I, and are described in further detail in the *OS PL/I Optimizing Compiler: Programmer's Guide*.

APLU

Explanation: Abend codes with 'PL' as the middle two characters are issued by PL/I, and are described in further detail in the *OS PL/I Optimizing Compiler: Programmer's Guide*.

APLV

Explanation: Abend codes with 'PL' as the middle two characters are issued by PL/I, and are described in further detail in the *OS PL/I Optimizing Compiler: Programmer's Guide*.

APLW

Explanation: Abend codes with 'PL' as the middle two characters are issued by PL/I, and are described in further detail in the *OS PL/I Optimizing Compiler: Programmer's Guide*.

APLx

Explanation: Abend codes with 'PL' as the middle two characters are issued by PL/I, and are described in further detail in the *OS PL/I Optimizing Compiler: Programmer's Guide*.

APLY

Explanation: Abend codes with 'PL' as the middle two characters are issued by PL/I, and are described in further detail in the *OS PL/I Optimizing Compiler: Programmer's Guide*.

APLZ

Explanation: Abend codes with 'PL' as the middle two characters are issued by PL/I, and are described in further detail in the *OS PL/I Optimizing Compiler: Programmer's Guide*.

APP1

Explanation: The DFHIC TYPE=GET response code was not a normal response.

System action: The transaction is abnormally terminated with a CICS transaction :i1.DFHP3270 abend codes dump.

User response: Analyze the dump. The response code is in the low-order byte of register 0.

Module: DFHP3270

APP2

Explanation: The length of data that has been passed to DFHP3270 via temporary storage is less than or equal to 5.

System action: The transaction is abnormally terminated with a CICS transaction dump.

User response: Check the user DFHTEP. If it is not at fault, submit an APAR.

If this abend has occurred, the data that DFHP3270 obtained from temporary storage was probably put there with an incorrect length. The user may have requested indirectly that this data be placed in temporary storage either by an application request for printing (for example ISSUE PRINT) or by pressing the Print Request key. However, CICS should control the data length for this request. Under normal circumstances, the only way the user could have requested directly that data is to be placed in temporary storage is in the user's TEP. The user should check any invocations of DFHIC TYPE=PUT in handling print requests, particularly when dealing with the "printer unavailable or busy" condition, and ensure that the length field is set correctly.

Problem determination: Register 6 points to the data retrieved from temporary storage via a DFHIC TYPE=GET macro invocation. The layout of this data is

- Terminal data area length (2 bytes)
- Write control indicator (1 byte)
- Write control or carriage control character (1 byte)
- Data (variable length)

Analysis: DFHP3270 has been called to handle a print request from a 3270 Information Display System terminal. It obtains from temporary storage the data to be printed, via a DFHIC TYPE=GET invocation. It ensures that some data to be printed is present. The area returned from temporary storage contains the data to be printed preceded by 4 bytes as described above. DFHP3270 has found that, because the length of data passed to it is less than or equal to 5, there is no data to be printed.

Module: DFHP3270

APP3

Explanation: An attempt to request data has been sent to a nonprinter or unsupported device type by either

- A terminal operator entering CSPP as a transaction code, **or**
- A transaction issuing a DFHTEP request.

System action: The transaction is abnormally terminated. A CICS transaction dump **is not** provided.

User response:

1. Ensure that the terminal operator ceases to use CSPP as a transaction code, or
2. Correct the user DFHTEP program.

Module: DFHP3270

APR1

Explanation: An abnormal DFHIC TYPE=PUT response code was received during print key processing.

System action: The transaction is abnormally terminated with a CICS transaction dump. The keyboard of the terminal on which the print key was depressed remains locked to indicate the failure of the operation.

User response: Analyze the dump. The response code is in low-order byte of register 0.

Module: DFHPRK

APSJ

Explanation: The abending transaction invoked the system spooler initialization program (DFHPSIP) illegally, that is from a program other than the CICS module, DFHSIJ1.

System action: CICS terminates the transaction abnormally. The EXEC CICS HANDLE ABEND

command can not handle this abend.

User response: Remove any calls or links to DFHPSIP from your application programs. If you can find no invocation of DFHPSIP in your application, you need further assistance to resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHPSIP

APST

Explanation: A task issued a SPOOL command without the mandatory NOHANDLE operand.

System action: CICS terminates the task abnormally with a dump.

User response: Correct the syntax of the command, specifying NOHANDLE.

Module: DFHEPS

APSU

Explanation: The CICS SVC passed an invalid JES interface return code to the CICS system spooler (an MVS subtask).

System action: CICS terminates the task abnormally.

User response: This is an internal error – check any JES failures that occurred at the same time.

You need further assistance from IBM to resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHPSPST

APSV

Explanation: A storage area for VSAM macro return codes contained an invalid value.

System action: CICS terminates the task abnormally with a dump.

User response: Check the syntax and input data of the spool commands issued by the failing transaction. Check any JES failures that occurred at the same time.

Module: DFHPSPST

APSW

Explanation: An abend occurred within a CICS system spooler subtask.

System action: CICS terminates the task abnormally with a dump.

User response: This is an internal CICS error. You need further assistance from IBM to resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHPSPST

APSX

Explanation: A CICS storage area used for notification of invalid parameters contained an invalid value.

System action: CICS terminates the task abnormally with a dump.

User response: Check the syntax and input data of the spool commands issued by the failing transaction. Check any JES failures that occurred at the same time.

Module: DFHPSPST

APSY

Explanation: A CICS storage area for MVS macro return codes contained an invalid value.

System action: CICS terminates the task abnormally with a dump.

User response: Check the syntax and input data of the spool commands issued by the failing transaction. Check any JES failures that occurred at the same time.

Module: DFHPSPST

APSZ

Explanation: A CICS area, used to store a JES interface return code, contained an invalid value.

System action: CICS terminates the task abnormally with a dump.

User response: Check the syntax and input data of the spool commands issued by the failing transaction. Check any JES failures that occurred at the same time.

This is an internal CICS error. You need further assistance from IBM to resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHPSPST

APTI

Explanation: The task was purged before a GETMAIN request to the storage manager (SM) domain was able to complete successfully. The domain that first detected the purged condition will have provided an exception trace.

System action: The task is abnormally terminated with a CICS transaction dump.

User response: Investigate why the task was purged. It was purged either as a result of a purge from the master terminal operator via the CEMT transaction, or by the task being timed out after waiting for longer than the DTIMOUT (deadlock timeout) value specified for the transaction.

If the master terminal operator purged the task, this may have been in an attempt to clear the system which appeared to be deadlocked for some reason.

If the task was timed out automatically as a result of the DTIMOUT value being exceeded, this may be due to insufficient main storage being available for the number of tasks in the system. If the amount of main storage cannot be increased, reduce the number of tasks in the system to avoid short-on-storage situations. Another possibility is to increase the value of the DTIMOUT option for the transaction.

Module: DFHPSPST

APTJ

Explanation: An error (INVALID, DISASTER, or unexpected EXCEPTION response) has occurred on a call to the storage manager (SM) domain. The domain that detected the original error will have provided an exception trace, a console message and, possibly, a system dump (depending on the options specified in the dump table).

System action: The task is abnormally terminated with a CICS transaction dump.

User response: See the related message from the domain that detected the original error.

Module: DFHPSPST

APUA

Explanation: An internal error was detected when module DFHPUP was invoked. The GETSTG parameter is missing on a call to DFHPUP (PUPF).

System action:
- In a CICS environment, the CEDA transaction is abnormally terminated with a CICS transaction dump.
- In a batch environment, processing is abnormally terminated with an operating system dump.

User response: You need further assistance from IBM to resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHPUP

APUB

Explanation: An internal error was detected when module DFHPUP was invoked. The GETSTG parameter is missing on a call to DFHPUP (PUPU).

System action:
- In a CICS environment, the CEDA transaction is abnormally terminated with a CICS transaction dump.
- In a batch environment, processing is abnormally terminated with an operating system dump.

User response: You need further assistance from IBM to resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHPUP

APUC

Explanation: An internal error was detected when module DFHPUP was invoked. An invalid function code was supplied for a domain call to DFHPUP.

System action:
- In a CICS environment, the CEDA transaction is abnormally terminated with a CICS transaction dump.
- In a batch environment, processing is abnormally terminated with an operating system dump.

User response: You need further assistance from IBM to resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHPUP

APUD

Explanation: The RDO language definition table (DFHEITSP) could not be located in the library.

System action:
- In a CICS environment, the CEDA transaction is abnormally terminated with a CICS transaction dump.
- In a batch environment, processing is abnormally terminated with an operating system dump.

User response: Ensure that module DFHEITSP is in the library and is valid for this release of CICS.

Module: DFHPUP

APUE

Explanation: The RDO language definition table (DFHEITSP) could not be loaded because of a lack of available storage.

System action: Processing is abnormally terminated with an operating system dump.

User response: Allocate more storage and resubmit the offline COPY or APPEND command(s) that failed.

Module: DFHPUP (Batch environment)

APUF

Explanation: Either the RDO language definition table is invalid or it is missing from the library.

System action:
- In a CICS environment, the CEDA transaction is abnormally terminated with a CICS transaction dump.

- In a batch environment, processing is abnormally terminated with an operating system dump.

User response: Ensure that module DFHEITSP is in the library and is valid for this release of CICS.

Module: DFHPUP

APUG

Explanation: An internal error was detected in module DFHPUP. Storage could not be obtained for the CSD record buffer.

System action:
- In a CICS environment, the CEDA transaction is abnormally terminated with a CICS transaction dump.
- In a batch environment, processing is abnormally terminated with an operating system dump.

User response: You need further assistance from IBM to resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHPUP

APUH

Explanation: An internal error was detected in module DFHPUP. Storage could not be obtained for the argument list.

System action:
- In a CICS environment, the CEDA transaction is abnormally terminated with a CICS transaction dump.
- In a batch environment, processing is abnormally terminated with an operating system dump.

User response: You need further assistance from IBM to resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHPUP

APUI

Explanation: An internal error was detected in module DFHPUP. Storage cannot be freed for the argument list.

System action:
- In a CICS environment, the CEDA transaction is abnormally terminated with a CICS transaction dump.
- In a batch environment, processing is abnormally terminated with an operating system dump.

User response: You need further assistance from IBM to resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHPUP

APUJ

Explanation: An internal error was detected in module DFHPUP. Storage cannot be freed for the CSD record buffer.

System action:
- In a CICS environment, the CEDA transaction is abnormally terminated with a CICS transaction dump.
- In a batch environment, processing is abnormally terminated with an operating system dump.

User response: You need further assistance from IBM to resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHPUP

APUK

Explanation:
- In a CICS environment, storage could not be acquired for a buffer to contain logged RDO commands in the CEDA transaction.
- In a batch environment, storage could not be acquired for a buffer to contain back-translated resource definitions from the CSD.

System action:
- In a CICS environment, the CEDA transaction is abnormally terminated with a CICS transaction dump.
- In a batch environment, processing is abnormally terminated with an operating system dump.

User response: You need further assistance from IBM to resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHPUP

APUL

Explanation: APUO.

CICS cannot find a match for a function code in the language definition table, because the parameterized resource definition contains an unrecognized resource type code.

The abend code issued depends on the DFHPUP operation that was invoked before the error occurred

Abend	DFHPUP operation
APUL	FLATTEN
APUM	TRANCASE
APUN	COMPARE
APUO	BACKTRANS

The cause of the abend is either
1. A language definition table (DFHEITSP or DFHEITCU) in the library is invalid for the CICS release you are running, **or**
2. A CICS logic error has occurred.

System action:
- In a CICS environment, the CEDA transaction is abnormally terminated with a CICS transaction dump.
- In a batch environment, processing is abnormally terminated with an operating system dump.

User response: Your response depends on which of the two possible reasons apply
1. Ensure that the DFHEITSP and DFHEITCU modules in the library are valid for this release of CICS.
2. You need further assistance from IBM to resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHPUP

APUM

Explanation: Refer to the description of abend APUL.

Module: DFHPUP

APUN

Explanation: Refer to the description of abend APUL.

Module: DFHPUP

APUO

Explanation: Refer to the description of abend APUL.

Module: DFHPUP

APUP

Explanation: An internal error occurred in DFHPUP processing of the language definition table for RDO. There was a stack error building a keyword list for the syntax tree.

System action:
- In a CICS environment, the CEDA transaction is abnormally terminated with a CICS transaction dump.
- In a batch environment, processing is abnormally terminated with an operating system dump.

User response: You need further assistance from IBM to resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHPUP

APUQ

Explanation: An internal error occurred in DFHPUP processing of the language definition table for RDO. Too many keywords found in syntax expansion.

System action:
- In a CICS environment, the CEDA transaction is abnormally terminated with a CICS transaction dump.
- In a batch environment, processing is abnormally terminated with an operating system dump.

User response: You need further assistance from IBM to resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHPUP

APUR

Explanation: An internal error occurred in DFHPUP processing of an argument list or a CSD record buffer. The data type for a keyword field conflicts with the data type specified in the language definition table.

System action:
- In a CICS environment, the CEDA transaction is abnormally terminated with a CICS transaction dump.
- In a batch environment, processing is abnormally terminated with an operating system dump.

User response: Ensure that the module DFHEITSP is in the library and is valid for this release of CICS.

Module: DFHPUP

APUS

Explanation: An internal error occurred in DFHPUP processing of a CSD record buffer. The integer data length for a keyword field is invalid.

System action:
- In a CICS environment, the CEDA transaction is abnormally terminated with a CICS transaction dump.
- In a batch environment, processing is abnormally terminated with an operating system dump.

User response: Ensure that the module DFHEITSP is in the library and is valid for this release of CICS.

Module: DFHPUP

APUT

Explanation: An internal error occurred in DFHPUP processing of an argument list or a CSD record buffer. The keyword existence bit number, which is the KEP(1) value in language definition table DFHEITSP, is not valid.

System action:
- In a CICS environment, the CEDA transaction is abnormally terminated with a CICS transaction dump.
- In a batch environment, processing is abnormally terminated with an operating system dump.

User response: Ensure that the module DFHEITSP is

in the library and is valid for this release of CICS.

Module: DFHPUP
.*---

APUZ

Explanation: CICS has found an unrecognized resource type code in a CSD record. The unrecognized code does not match any of the function codes in the language definition table. This abend can occur for one of the following reasons
1. You are using a CICS release that does not support a type of definition that was created on the CSD file by a later CICS release.
2. The language definition table (DFHEITSP or DFHEITCU) is invalid for this CICS release.
3. The CSD manager (DFHDMP) has passed an invalid CSD record buffer to DFHPUP. This is a CICS internal logic error.

System action:
- In a CICS environment, the CEDA transaction is abnormally terminated with a CICS transaction dump
- In a batch environment, processing is abnormally terminated with an operating system dump.

User response: Determine which of the possible reasons caused the error. If you can eliminate reasons 1 and 2, you can assume that reason 3 applies.

Take action corresponding to the reason you have established as follows
1. Avoid operations on groups containing definition-types that are unsupported by the CICS release you are running.
2. Ensure that the library contains versions of DFHEITSP and DFHEITCU that are valid for the CICS release you are running.
3. You need further assistance from IBM to resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHPUP

APXA

Explanation: The user transaction's profile could not be found.

System action: The task is abnormally terminated with a CICS transaction dump. The user transaction is not started.

User response: Check that the profile name in the user transaction definition is correct, and that this profile has been defined.

Module: DFHAPXM

ARxx abend codes

ARCB

Explanation: CICS has attempted to enable a task-related user exit, or a global user exit during initialization, but failed because the exit program could not be found.

On all types of start, CICS attempts to enable DFHEDP, the EXEC DLI task-related user exit and DFHLETRU, the language environment task-related user exit. On an emergency restart, CICS enables transaction backout exit programs as specified by the first two **TBEXITS** system initialization parameters.

On all types of start, CICS attempts to enable file control backout programs as specified by the third, fourth, fifth, and sixth **TBEXITS** system initialization parameters.

System action: CICS issues a message to the console indicating which exit program is involved. CICS initialization then terminates abnormally with a system dump.

User response: If the associated message indicates that program DFHEDP could not be found, check that IBM-supplied group DFHEDP is included in the group list used at CICS cold or initial start time.

If the associated message indicates that program DFHLETRU could not be found, check that IBM-supplied group DFHMISC is included in the group list used at CICS cold or initial start time.

For transaction backout exit programs, including the file control backout programs, ensure the program has been defined and is in library available to CICS.

If necessary, use the dump to find out why the exit program could not be enabled.

Module: DFHRCEX

ARHA

Explanation: The SAA resource recovery interface has been invoked with an invalid first parameter. The first parameter should be the code of the function to be performed. This is a CICS internal logic error.

System action: The transaction is abnormally terminated with a CICS transaction dump.

User response: A level 2 trace for 'CP' of the transaction shows the course of events before this error occurred (such as the modules called and their parameters) plus details of the error itself. You need further assistance from IBM to resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHCPIR

ARHB

Explanation: The SAA resource recovery interface has been invoked with an invalid number of parameters for the call.

System action: the transaction is abnormally terminated with a CICS transaction dump.

User response: The exception trace point produced with this abend contains the SAA resource recovery verb name that was issued incorrectly. Use this to determine where the application program was in error and amend application program accordingly. The *SAA Resource Recovery Reference Manual*, SC31-6821, provides a detailed description of the SAA resource recovery verbs and how they should be called.

Module: DFHCPIR

ARHC

Explanation: The SAA resource recovery interface has detected an unexpected return code from the syncpoint program. This is a CICS internal logic error.

System action: The transaction is abnormally terminated with a CICS transaction dump.

User response: A level 2 trace for 'CP' of the transaction shows the course of events before this error occurred (such as the modules called and their parameters) plus details of the error itself. You need further assistance from IBM to resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHCPIR

ARM0

Explanation: An attempt was made to attach a transaction specifying DFHRMXN3 as the program to be given control, but the transaction was not internally attached by CICS.

DFHRMXN3 is for use by CICS system transaction CSKP. This provides support for activity keypoints,

System action: The transaction is abnormally terminated. CICS processing continues.

User response: Establish why an attempt was made to attach CSKP incorrectly, or why a transaction definition specified DFHRMXN3 as the program to be given control.

Module: DFHRMXN3

ARP2

Explanation: The server controller detected an internal error during CICS ONC RPC enable processing.

System action: One of the following messages is issued: DFHRP0508, DFHRP0509, DFHRP0528, DFHRP0529, DFHRP0590, DFHRP0591.

User response: See the user response for the message.

Module: DFHRPMS

ARP4

Explanation: The server controller has performed an exception disable because of an internal error.

System action: One of the following messages is issued: DFHRP0503, DFHRP0559, DFHRP0697, DFHRP0726, DFHRP0728, DFHRP0730, DFHRP0741.

User response: You need further assistance from IBM to resolve this problem. See the *CICS External Interfaces Guide* and Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHRPMS

ARP5

Explanation: An invalid attempt was made to start the server controller.

System action: The following message is issued: DFHRP0640.

User response: See the user response for the message.

Module: DFHRPMS

ARP9

Explanation: There was not enough storage for the connection manager.

System action: None.

User response: You need further assistance from IBM to resolve this problem. See the *CICS External Interfaces Guide* and Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHRPC01

ARPA

Explanation: An unexpected response from DFHSUSN has occurred when trying to sign off a user of the CRTE transaction in the target system when processing a CANCEL request.

This abend can be caused by incorrect use of the z/OS Communications Server VARY INACT command. Otherwise it indicates that there may be an error in CICS.

System action: The CSSF transaction (CRTE cancel processor transaction) is terminated with an ARPA abend.

User response: Ensure that the z/OS Communications Server VARY INACT command is used correctly. If this is not the cause of the abend, you need further

assistance from IBM to correct this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHRTC

ARPF

Explanation: The alias could not be initialized.

System action: One of the following messages is issued: DFHRP0103, DFHRP0104, DFHRP0106, DFHRP0108, DFHRP0109.

User response: See the user response for the message.

Module: DFHRPAS

ARPG

Explanation: The alias was not able to link to the CICS program or the **Encode** function of the converter one of the following reasons:

- The userid supplied for the alias was not valid.
- The CICS program is not defined as a resource to the external security manager.
- The CICS program name is not valid.
- The CICS program was on a different system from CICS ONC RPC, and the specified system name was not valid.
- The converter program name was not valid.
- The converter program is defined as remote.
- The alias is not authorized to use the converter

System action: One of the following messages is issued: DFHRP0121, DFHRP0131, DFHRP0138, DFHRP0139, DFHRP0141, DFHRP0156, DFHRP0157, DFHRP0159.

User response: See the user response for the message.

Module: DFHRPAS

ARPH

Explanation: The alias detected a global work area error.

System action: The following message is issued: DFHRP0118.

User response: See the user response for the message.

Module: DFHRPAS

ARPI

Explanation: The alias detected a logic error.

System action: One of the following messages is issued: DFHRP0107, DFHRP0133, DFHRP0135, DFHRP0137, DFHRP0143, DFHRP0144, DFHRP0148, DFHRP0149, DFHRP0155, DFHRP0164, DFHRP0168, DFHRP0170.

User response: See the user response for the message.

Module: DFHRPAS

ARPJ

Explanation: The alias ends for one of the following reasons:

- An unexpected response was received from CICS during transaction initialization.
- The external security manager is no longer available.
- The remote CICS region in which the CICS program was running abended.
- The CICS program, which was running in a remote CICS region, abended.
- The reply could not be sent to the client.

System action: One of the following messages is issued: DFHRP0105, DFHRP0132, DFHRP0136, DFHRP0140, DFHRP0145, DFHRP0146, DFHRP0147, DFHRP0150, DFHRP0165, DFHRP0166, DFHRP0167.

User response: See the user response for the message.

Module: DFHRPAS

ARPK

Explanation: The alias detected a CICS logic error.

System action: One of the following messages is issued: DFHRP0102, DFHRP0122, DFHRP0142, DFHRP0160.

User response: See the user response for the message.

Module: DFHRPAS

ARPL

Explanation: The alias detected an authorization error.

System action: One of the following messages is issued: DFHRP0119, DFHRP0120, DFHRP0132, DFHRP0134.

User response: See the user response for the message.

Module: DFHRPAS

ARPM

Explanation: The alias detected an error in user code.

System action: One of the following messages is issued: DFHRP0161, DFHRP0162, DFHRP0163, DFHRP0169.

User response: See the user response for the message.

Module: DFHRPAS

ARPN

Explanation: The alias detected an error while trying to switch TCBs.

System action: The following message is issued: DFHRP0151.

User response: See the user response for the message.

Module: DFHRPAS

ARPO

Explanation: The alias program detected an abend.

System action: One of the following messages is issued: DFHRP0181, DFHRP0182, DFHRP0183.

User response: See the user response for the message.

Module: DFHRPAS

ARPU

Explanation: The connection manager could not access the CICS ONC RPC data set, and received an error response when it tried to send message DFHRP1512.

System action: None.

User response: You need further assistance from IBM to resolve this problem. See the *CICS External Interfaces Guide* and Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHRPC01

ARPV

Explanation: The connection manager received an unexpected response from CICS following an EXEC CICS command.

System action: One of the following messages is issued: DFHRP1540, DFHRP1651, DFHRP1954.

User response: See the user response for the message.

Module: DFHRPC0E

ARPW

Explanation: The connection manager received an unexpected response from CICS following an EXEC CICS command.

System action: The following message is issued: DFHRP1969.

User response: See the user response for the message.

Module: DFHRPC0E

ARPX

Explanation: The connection manager was started against an invalid terminal.

System action: The following message is issued: DFHRP1522.

User response: See the user response for the message.

Module: DFHRPC01

ARPZ

Explanation: The connection manager has insufficient authority.

System action: The following message is issued: DFHRP1902.

User response: See the user response for the message.

Module: DFHRPC0B

ARTA

Explanation: The task does not own a terminal as its principal facility.

System action: The task is abnormally terminated with a CICS transaction dump.

User response: Ensure that DFHRTE has not been specified as the program for a task other than CRTE. Ensure that CRTE has not been initiated by means other than terminal input.

Module: DFHRTE

ARTB

Explanation: There is no input TIOA or the data length is zero.

System action: The task is abnormally terminated with a CICS transaction dump.

User response: Ensure that DFHRTE has not been specified as the program for a task other than CRTE. Ensure that CRTE has not been initiated by means other than terminal input.

Module: DFHRTE

ARTC

Explanation: The link to the required system is not usable for an unknown reason.

System action: The task is abnormally terminated with a CICS transaction dump.

User response: You need further assistance from IBM to resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHRTE

ARTD

Explanation: An internal logic error has been detected.

System action: The task is abnormally terminated with a CICS transaction dump.

User response: You need further assistance from IBM to resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHRTE

ARTE

Explanation: An error was encountered when attempting to read from or write to temporary storage.

System action: The task is abnormally terminated with a CICS transaction dump.

User response: Determine the cause of the temporary storage problem and correct it.

Module: DFHRTE

ARTF

Explanation: An attempt has been made to use the routing transaction (CRTE) from a terminal that has a permanent transaction code set.

System action: The task is abnormally terminated with a CICS transaction dump.

User response: Inform the system programmer.

Module: DFHRTE

ARTG

Explanation: CICS could not find the profile specified for a transaction being routed.

System action: CICS terminates the task abnormally with a dump.

User response: Check your transaction and profile definitions.

Module: DFHRTE

ARTH

Explanation: An error (INVALID, DISASTER or EXCEPTION response) has occurred on a call to schedule a remote terminal delete by DFHRTE during sign-off for a surrogate terminal session running CRTE. The domain that detected the original error provides an exception trace, a console message and, possibly, a system dump (depending on the options specified in the dump table).

System action: CICS terminates the task abnormally with a dump.

User response: See the related message produced by the domain that detected the original error.

Module: DFHRTE

ARUA

Explanation: An exception condition was returned on the ADD_LINK during the BIND phase of ATTACH for the transaction invoked by the RUN command.

System action: CICS terminates the invoked transaction abnormally with a dump. The RUN SYNCHRONOUS command that was issued by the application returns with an error response of INVREQ (RESP2 28).

User response: More details can be found in the trace.

Module: DFHXMRU

ARUB

Explanation: A RUN SYNCHRONOUS command caused an attempt to attach a transaction defined as remote. Only transactions defined as local may be run synchronously.

System action: CICS terminates the invoked transaction abnormally with a dump. The RUN SYNCHRONOUS command that was issued by the application returns with an error response of ACTIVITYERR or PROCESSERR (RESP2 27).

User response: More details can be found in the trace.

Module: DFHXMXM

ARUC

Explanation: A RUN SYNCHRONOUS command caused an attempt to attach a transaction with an invalid USERID.

System action: CICS terminates the invoked transaction abnormally with a dump. The RUN SYNCHRONOUS command that was issued by the application returns with a resp2 value of 27.

User response: More details can be found in the trace.

Module: DFHXMRU

ARXA

Explanation: A transactional EXCI request has been received from a batch region. CICS has encountered an error when attempting to express interest in an RRMS Unit of Recovery.

DFHRXUW provides an exception trace, console message DFHRX0002, and possibly a system dump (depending on the options in the dump table).

System action: The transaction is terminated with a CICS transaction dump.

User response: Resource Recovery Services (RRS) may

have been shut down after the request was received by CICS. If this is the case, retry the EXCI request once RRS has been restarted.

If this is not the case, use the exception trace provided by the RX domain to determine the reason for the failure. You might need further assistance from IBM in this situation. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHRXUW

ARXB

Explanation: An error (EXCEPTION, DISASTER, INVALID, KERNERROR or PURGED) has occurred on an ADD_LINK call to the recovery manager (RM) domain. For errors other than EXCEPTION, the RM domain provides an exception trace, a console message, and possibly a system dump (depending on the options in the dump table).

For all errors, DFHRXUW provides an exception trace, console message DFHRX0002, and possibly a system dump (depending on the options in the dump table).

System action: The transaction is terminated with a CICS transaction dump.

User response: See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHRXUW

ARXC

Explanation: A transactional EXCI request has been received from a batch region when either

- CICS did not register as a resource manager with Recoverable Resource Management Services (RRMS) because system initialization parameter RRMS=NO was specified.
- the RX domain did not succesfully complete its initialization.

System action: The transaction is terminated with a CICS transaction dump.

User response: If CICS was started with system initialization parameter RRMS=NO, restart CICS specifying RRMS=YES (or route transactional EXCI requests to another CICS system).

Otherwise, investigate why the RX domain did not initialize succesfully. A failure during initialization of the domain is accompanied by a console message and a system dump. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHRXUW

ARZ2

Explanation: An attempt to service a GIOP request failed during task attach due to required resources being unobtainable, or missing information from request data.

System action: The request fails and the task is abnormally terminated with abend code ARZ2. CICS takes a transaction dump, unless module DFHDUIO is not loaded.

User response: Use the transaction dump to determine the cause of the failure. For further assistance, or if module DFHDUIO is not loaded and no transaction dump is available, contact your system programmer.

Module: DFHRZXM

ARZ3

Explanation: An attempt to service a GIOP request failed during task attach due to required resources being unobtainable, or missing information from request data.

System action: The request fails and the task is abnormally terminated with abend code ARZ3. CICS takes a transaction dump, unless module DFHDUIO is not loaded.

User response: Use the transaction dump to determine the cause of the failure. For further assistance, or if module DFHDUIO is not loaded and no transaction dump is available, contact your system programmer.

Module: DFHRZIX, DFHRZTCX

ARZ4

Explanation: An attempt to service a GIOP request failed during task attach due to required resources being unobtainable, or missing information from request data.

System action: The request fails and the task is abnormally terminated with abend code ARZ4. CICS takes a transaction dump, unless module DFHDUIO is not loaded.

User response: Use the transaction dump to determine the cause of the failure. For further assistance, or if module DFHDUIO is not loaded and no transaction dump is available, contact your system programmer.

Module: DFHRZRM, DFHRZSO1

ARZ5

Explanation: The target request stream task detected that the source task was no longer active. The target task is unable to process the request it was attached for.

System action: The request fails and the task is abnormally terminated with abend code ARZ5. CICS

takes a transaction dump, unless module DFHDUIO is not loaded.

User response: Investigate why the source task has terminated before this target began initialization. There might be relevant messages in the CICS log. Otherwise a CICS trace or system dump will be required to identify the problem. One possible cause is that the source task was timed out and purged before the target task started.

Module: DFHRZXM

ARZE

Explanation: A command has failed due to a serious failure in a CICS component (resource manager).

System action: The transaction is abnormally terminated with abend code ARZE. CICS takes a transaction dump, unless module DFHDUIO is not loaded.

User response: Use the transaction dump to determine the cause of the failure. For further assistance, or if module DFHDUIO is not loaded and no transaction dump is available, contact your system programmer.

Module: DFHRZLN, DFHRZRM, DFHRZSO, DFHRZSO1, DFHRZTA, DFHRZXM

ARZF

Explanation: A command has failed due to a serious failure in a CICS component (resource manager).

System action: The transaction is abnormally terminated with abend code ARZF. CICS takes a transaction dump, unless module DFHDUIO is not loaded.

User response: Use the transaction dump to determine the cause of the failure. For further assistance, or if module DFHDUIO is not loaded and no transaction dump is available, contact your system programmer.

Module: DFHRZLN, DFHRZRM, DFHRZSO, DFHRZSO1, DFHRZTA, DFHRZXM

ARZI

Explanation: A command has failed due to a serious failure in a CICS component (resource manager).

System action: The transaction is abnormally terminated with abend code ARZI. CICS takes a transaction dump, unless module DFHDUIO is not loaded.

User response: Use the transaction dump to determine the cause of the failure. For further assistance, or if module DFHDUIO is not loaded and no transaction dump is available, contact your system programmer.

Module: DFHRZLN, DFHRZRM, DFHRZSO, DFHRZSO1, DFHRZTA, DFHRZXM

ARZJ

Explanation: A command has failed due to a serious failure in a CICS component (resource manager).

System action: The transaction is abnormally terminated with abend code ARZJ. CICS takes a transaction dump, unless module DFHDUIO is not loaded.

User response: Use the transaction dump to determine the cause of the failure. For further assistance, or if module DFHDUIO is not loaded and no transaction dump is available, contact your system programmer.

Module: DFHRZLN, DFHRZRM, DFHRZSO, DFHRZSO1, DFHRZTA, DFHRZXM

ASxx abend codes

ASCA

Explanation: A DFHSC TYPE=GETMAIN request has resulted in a call to the storage manager (SM) domain which has returned an INVALID or DISASTER response.

System action: The transaction is terminated with a CICS transaction dump.

User response: There has been an earlier failure which led to the response from the storage manager domain. Investigate the earlier failure (which is accompanied by a console message and a system dump).

Module: DFHSMSCP

ASCB

Explanation: A DFHSC TYPE=FREEMAIN request has resulted in a call to the storage manager (SM) domain which has returned an INVALID or DISASTER response.

System action: The transaction is terminated with a CICS transaction dump.

User response: There has been an earlier failure which led to the response from the storage manager domain. Investigate the earlier failure (which is accompanied by a console message and a system dump).

Module: DFHSMSCP

ASCP

Explanation: A task which has issued an unconditional DFHSC TYPE=GETMAIN request has been purged while waiting for sufficient contiguous main storage to become free.

System action: The task is abnormally terminated with a CICS transaction dump.

User response: Investigate why the task was purged. This will either have been as a result of a purge from the master terminal operator via the CEMT transaction, or by the task being timed out after waiting for longer than the DTIMOUT (deadlock timeout) value specified for the transaction.

If the task was purged by the master terminal operator then this may have been in an attempt to clear the system which appeared to be deadlocked for some reason.

If the task was timed out automatically as a result of the DTIMOUT value being exceeded then this may be due to insufficient main storage being available for the number of tasks in the system. If the amount of main storage cannot be increased then the number of tasks in the system should be reduced to avoid short-on-storage situations. Another possibility would be to increase the value of the DTIMOUT option for the transaction.

Module: DFHSMSCP

ASCR

Explanation: A DFHSC macro request has been issued with an invalid request type.

System action: The transaction is terminated with a CICS transaction dump.

Detection of the invalid request by DFHSMSCP causes a console message and a system dump to be produced.

User response: Use the associated console message and system dump to investigate the problem.

Module: DFHSMSCP

ASDA

Explanation: The default shutdown transaction (CESD) has been started directly from a terminal. This is not permitted. This transaction can only be started internally by CICS.

System action: The transaction is abnormally terminated with a transaction dump.

User response: None.

Module: DFHCESD

ASFA

Explanation: An internal logic error occurred in DFHSFP because of an unexpected response from EXEC CICS. This abend code is usually accompanied by message DFHCE3598 which contains the associated return codes.

System action: The transaction is abnormally terminated with a CICS transaction dump.

User response: You need further assistance from IBM to resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHSFP

ASFB

Explanation: An attempt was made to execute the CICS signoff program without an associated terminal.

System action: CICS terminates the transaction with a dump. This abend code is usually accompanied by message DFHCE3598.

User response: Only use the signoff program when there is a related terminal.

Module: DFHSFP

ASFC

Explanation: An attempt was made to execute the CICS signoff program against an APPC session.

System action: CICS terminates the transaction with a dump. This abend code is usually accompanied by message DFHCE3598.

User response: Only use the signoff program when there is a related terminal.

Module: DFHSFP

ASH2

Explanation: An attempt to service a Scheduler Services request failed due to required resources being unobtainable. This may result in a request being unserviceable or an Activity being marked abended depending on the nature of the failure.

System action: The transaction is abnormally terminated with abend code ASH2. CICS takes a transaction dump, unless module DFHDUIO is not loaded.

User response: Check that any required links between regions are available. Check the Distributed Routing Program name is correct and the program is usable. Use the transaction dump to determine the cause of the failure. For further assistance, or if module DFHDUIO is not loaded and no transaction dump is available, contact your system programmer.

Module: DFHSHXM

ASH3

Explanation: A transaction bound to a Scheduler Services request has backed out. No other abend code has been set. The SH abend request uses this abend code by default.

System action: The transaction continues backing out. A subsequent task will process the SH abend request.

User response: None.

Module: DFHSHRM

ASH4

Explanation: A Scheduler Services request attempted to attach a transaction that is currently disabled.

System action: The transaction is abnormally terminated with abend code ASH4. CICS takes a transaction dump, unless module DFHDUIO is not loaded.

User response: Check the status of the transaction. For further assistance, or if module DFHDUIO is not loaded and no transaction dump is available, contact your system programmer.

Module: DFHSHXM

ASHA

Explanation: A command has failed due to a serious failure in a CICS component (resource manager).

System action: The transaction is abnormally terminated with abend code ASHA. CICS takes a transaction dump, unless module DFHDUIO is not loaded.

User response: Use the transaction dump to determine the cause of the failure. For further assistance, or if module DFHDUIO is not loaded and no transaction dump is available, contact your system programmer.

Module: DFHSHDM

ASHB

Explanation: A command has failed due to a serious failure in a CICS component (resource manager).

System action: The transaction is abnormally terminated with abend code ASHB. CICS takes a transaction dump, unless module DFHDUIO is not loaded.

User response: Use the transaction dump to determine the cause of the failure. For further assistance, or if module DFHDUIO is not loaded and no transaction dump is available, contact your system programmer.

Module: DFHSHDM

ASHR

Explanation: A command has failed due to a serious failure in a CICS component (resource manager).

System action: The transaction is abnormally terminated with abend code ASHR. CICS takes a transaction dump, unless module DFHDUIO is not loaded.

User response: Use the transaction dump to determine the cause of the failure. For further assistance, or if module DFHDUIO is not loaded and no transaction dump is available, contact your system programmer.

Module: DFHSHRSP

ASHU

Explanation: In the process of transferring the request from one region to another an abend occurred due to a routing failure. The Request cannot be routed to a suitable region. The request is unserviceable.

System action: The transaction is abnormally terminated with abend code ASHU. CICS takes a transaction dump, unless module DFHDUIO is not loaded.

User response: Check the links between regions are available. Check the Distributed Routing Program name is correct and the program is usable. Use the transaction dump to determine the cause of the failure. For further assistance, or if module DFHDUIO is not loaded and no transaction dump is available, contact your system programmer.

Module: DFHSHRSP

ASIA

Explanation: An error has occurred on a call to the storage manager (SM) domain. The domain that detected the original error will have provided an exception trace, a console message and, possibly, a system dump (depending on the options specified in the dump table).

System action: The task is abnormally terminated with a CICS transaction dump. CICS then terminates abnormally.

User response: See the related message from the domain that detected the original error.

Module: DFHSII1

ASIB

Explanation: An attempt has been made to run the CICS internal task CPLT as a user transaction.

System action: CICS terminates the task with a transaction dump.

User response: Investigate why the attempt was made

to run CPLT as a user transaction.

Module: DFHSIPLT

ASJ1

Explanation: CICS attempted to initialize the Java environment for a task by issuing a JNI_CreateJavaVM call to the Java Native Interface. The call was not successful.

System action: Exception trace SJ 050C is created. The task is abnormally terminated with a CICS transaction dump.

User response: This abend often implies that there is an error in the JVM profile. Check that the LIBPATH and JAVA_HOME entries in the JVM profile are correct. Also check that the **USSHOME** system initialization parameter is set correctly.

Ensure that CICS is using the correct JVM Profile and that the correct version of Java is being used. Check that the CICS region ID has read permission to the Java z/OS UNIX files and that you have the latest Java maintenance applied.

Examine the z/OS UNIX files used for stdout and stderr (as named by the environment variables STDOUT and STDERR, whose default names are `dfhjvmout` and `dfhjvmerr`) for error messages output by the JVM. Also examine destination SYSOUT for error messages from Language Environment and the Java Native Interface (JNI). The trace table from the transaction dump contains the exception trace mentioned above.

If the previous suggestions do not help, ensure that the JVM has not abended. Check the WORK_DIR directory specified in the JVM Profile for any files named `javacore` or `Snap`.

Module: DFHSJCS

ASJ3

Explanation: The CICS JVM interface invoked the JVM to find the main method of the CICS Wrapper class used to set up the operating environment before executing the user Java class. The JVM failed to find the main method of the CICS Wrapper class.

System action: DFHSJCS provides an exception trace, console message DFHSJ0002, and possibly a system dump (depending on the options in the dump table). The task is abnormally terminated with a CICS transaction dump.

User response: Examine the zFS files used for stdout and stderr (as named by the environment variables STDOUT and STDERR, whose default names are `dfhjvmout` and `dfhjvmerr`) for error messages output by the JVM. Also examine destination SYSOUT for error messages from Language Environment and the Java Native Interface (JNI).

Ensure that the value of the **USSHOME** system initialization parameter is correct and that the CICS region ID has permission to read the **USSHOME** directory structure.

Module: DFHSJCS

ASJ4

Explanation: The SJ domain failed to build the argument list required to invoke the CICS Wrapper class used to set up the operating environment before executing the user Java class. This is possibly due to lack of free storage.

System action: DFHSJCS provides an exception trace, console message DFHSJ0002, and possibly a system dump (depending on the options in the dump table). The task is abnormally terminated with a CICS transaction dump.

User response: Examine the zFS files used for stdout and stderr (as named by the environment variables STDOUT and STDERR, whose default names are `dfhjvmout` and `dfhjvmerr`) for error messages output by the JVM. Also examine destination SYSOUT for error messages from Language Environment and the Java Native Interface (JNI).

Module: DFHSJCS

ASJ5

Explanation: The CICS JVM interface invoked the CICS Wrapper class used to set up the operating environment before executing the user Java class. The Wrapper returned an exception.

System action: The task is abnormally terminated with a CICS transaction dump.

User response: Examine the zFS files used for stdout and stderr (as named by the environment variables STDOUT and STDERR, whose default names are `dfhjvmout` and `dfhjvmerr`) for error messages output by the JVM. Also examine destination SYSOUT for error messages from Language Environment and the Java Native Interface (JNI).

Module: DFHSJCS

ASJ6

Explanation: The SJ domain issued a call to the kernel to ensure that CICS's ESTAE is the current ESTAE. This is required before calling CICS services from a native C environment which is running with Language Environment's ESTAE in effect. The call failed.

System action: The task is abnormally terminated with a CICS transaction dump.

User response: Examine the CICS Kernel or MVS messages and diagnostics that should be present as a result of the failure.

Module: DFHSJCS

ASJ7

Explanation: An error has caused the JVM server to receive a SIGABRT signal.

System action: CICS produces a system dump and terminates immediately.

User response: Contact IBM support.

Module: DFHSJSC

ASJA

Explanation: An error has occurred obtaining a lock within the Java domain.

System action: CICS abnormally terminates the task. CICS processing continues.

User response: Contact your local IBM support center for assistance.

Module: DFHSJSM, DFHSJST

ASJB

Explanation: An error has occurred releasing a lock within the Java domain.

System action: CICS abnormally terminates the task. CICS processing continues.

User response: Contact your local IBM support center for assistance.

Module: DFHSJSM, DFHSJST

ASJC

Explanation: The CICS_HOME directory is inaccessible, does not exist, or contains a version of CICS Java support which is not the same as this release of CICS.

System action: CICS terminates the task with a transaction dump.

User response: Update the CICS_HOME option in the JVM profile.

Module: DFHSJCS

ASJD

Explanation: An attempt to load a DLL by SJ Domain has failed.

System action: CICS terminates the task with a transaction dump.

User response: See message DFHSJ0503 to determine the DLL name and the reason why the load failed.

Module: DFHSJCS

ASJE

Explanation: An attempt to locate the Wrapper class has failed.

System action: CICS terminates the task with a transaction dump.

User response: Verify the location and attributes of the CICS Wrapper class particularly the HFS permissions. If Java 2 security is active ensure the necessary permissions have been granted in the policy file. See message DFHSJ0501 for further information.

Module: DFHSJCS

ASJF

Explanation: An attempt to change the HFS working directory has failed.

System action: CICS terminates the task with a transaction dump.

User response: See message DFHSJ0502 to determine the directory name and the reason why the attempt failed.

Module: DFHSJCS

ASJG

Explanation: An attempt by SJ domain to fetch the user-replaceable module DFHJVMAT has failed.

System action: CICS terminates the task with a transaction dump.

User response: Verify that module DFHJVMAT is contained in a data set referenced by ddname SDFHAUTH and that it is executable.

Module: DFHSJIN

ASJH

Explanation: A JVM has terminated due to a program check or other reason.

System action: CICS terminates the task with a transaction dump.

User response: Check the JVM's STDOUT and STDERR files, and any JVM dumps for further information.

Module: DFHSJIN

ASJI

Explanation: Program DFHSJJI was called using **EXEC CICS LINK**, but no channel was provided.

System action: The transaction is abnormally terminated. CICS processing continues.

User response: Specify the channel to be passed to DFHSJJI.

Module: DFHSJJI

ASJJ

Explanation: The JAVA_HOME directory is inaccessible, does not exist, or contains a JVM which does not match the Java version requirements for this release of CICS.

System action: CICS terminates the task with a transaction dump.

User response: Change the permissions of the JAVA_HOME directory, or update the version of Java specified in the JVM profile.

Module: DFHSJPJP

ASJK

Explanation: An attempt was made to attach transaction CJGC, but the transaction was not attached internally by CICS.

The CICS system transaction CJGC provides support for initiating Garbage Collection in a JVM. It can only be attached internally by CICS.

System action: The transaction is abnormally terminated. CICS processing continues.

User response: Establish why an attempt was made to illegally attach CJGC.

Module: DFHSJGC

ASJL

Explanation: An attempt was made to attach a transaction specifying DFHSJGC as the program to be given control, but the transaction id was not CJGC.

DFHSJGC is for use by CICS system transaction CJGC, which provides support for initiating Garbage Collection in a JVM.

System action: The transaction is abnormally terminated. CICS processing continues.

User response: Establish why a transaction definition specified DFHSJGC as the program to be given control.

Module: DFHSJGC

ASJM

Explanation: An attempt was made to attach transaction CJPI, but the transaction was not attached internally by CICS.

The CICS system transaction CJPI provides support for initializing new JVMs.It can only be attached internally by CICS.

System action: The transaction is abnormally terminated. CICS processing continues.

User response: Establish why an attempt was made to illegally attach CJPI.

Module: DFHSJPI

ASJN

Explanation: An attempt was made to attach a transaction specifying DFHSJPI as the program to be given control, but the transaction id was not CJPI.

DFHSJPI is for use by CICS system transaction CJPI, which provides support for initializing new JVMs.

System action: The transaction is abnormally terminated. CICS processing continues.

User response: Establish why a transaction definition specified DFHSJPI as the program to be given control.

Module: DFHSJPI

ASJO

Explanation: The JVMServer resolution transaction CJSR, has encountered an internal error.

The CICS system transaction CJSR provides support for initializing new JVM servers. If this fails, it is likely that there is an underlying error with the CICS system.

System action: The transaction is abnormally terminated. CICS processing continues.

User response: See the related message produced by the domain that detected the original error.

Module: DFHSJIT

ASJR

Explanation: An attempt was made to start a JVM in resettable mode by specifying [-]Xresettable=YES or REUSE=RESET.

System action: CICS terminates the task with a transaction dump.

User response: The resettable mode of the Java Virtual Machine is obsolete and no longer supported. If [-]Xresettable=YES was specifed in the JVM profile or properties file, remove it. If REUSE=RESET was specified in the JVM profile, change it to REUSE=YES or REUSE=NO. See message DFHSJ0524 for further information.

Module: DFHSJPJP

ASJS

Explanation: A Java application running in a JVM server invoked the System.exit() method.

System action: CICS produces a system dump and terminates immediately.

User response: Change the application to avoid invoking System.exit() or implement a Java Security Manager to prevent System.exit() from being invoked.

Module: DFHLEPTC

ASNA

Explanation: An internal logic error occurred in DFHSNP because of an unexpected response from EXEC CICS.

System action: CICS terminates the transaction with a dump. This abend code is usually accompanied by message DFHCE3548.

User response: You need further assistance from IBM to resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHSNP

ASNB

Explanation: An attempt was made execute the CICS sign on program without an associated terminal. This abend code is usually accompanied by message DFHCE3548.

System action: CICS terminates the transaction with a dump.

User response: Only use the sign on program when there is a related terminal.

Module: DFHSNP

ASNC

Explanation: The signon program attempted to send a request to the user but failed to do so.

System action: CICS terminates the transaction with a dump. This abend code is usually accompanied by message DFHCE3548.

User response: You need further assistance from IBM to resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHSNP

ASND

Explanation: A request from DFHSNTU to ENQ on the address of the SNEX has failed during signoff terminal user.

System action: A transaction dump is taken and the task which issued the signoff is abended.

User response: You need further assistance from IBM to resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHSNTU

ASOA

Explanation: The TCP/IP listener task CSOL has been incorrectly started from a terminal. It can only be enabled by the Sockets Domain at CICS system initialization or by using CEMT SET TCPIP OPEN or the equivalent SPI function.

System action: The transaction is abnormally terminated with a transaction dump.

User response: None.

Module: DFHSOL

ASOB

Explanation: Sockets domain has encountered a locking error while attempting to issue a lock.

System action: The transaction is abnormally terminated with a transaction dump.

User response: The exception trace before this abend gives more information as to why this abend was issued.

Module: DFHSOCK

ASOC

Explanation: The TCP/IP listener task CSOL has encountered an unlocking error while attempting to issue an unlock.

System action: The transaction is abnormally terminated with a transaction dump.

User response: The exception trace prior to this abend gives more information as to why this abend was issued.

Module: DFHSOL

ASOD

Explanation: The TCP/IP transaction attach module DFHSOXM encountered an error during the bind stage of transaction attach processing for a new task.

System action: The transaction is abnormally terminated with a transaction dump.

User response: The exception trace prior to this abend gives more information as to why this abend was issued.

Module: DFHSOXM

ASOL

Explanation: The TCP/IP listener task CSOL has abended.

System action: The transaction is abnormally terminated with a transaction dump.

User response: Investigate why the transaction was abended. The exception trace prior to this abend gives more information as to why this abend was issued.

Module: DFHSOL

ASP1

Explanation: Intersystem communication failed while a syncpoint was being taken. Communication with the coordinator system has been interrupted, and the failure occurred during the critical indoubt period of syncpoint processing. As a result this CICS system is in doubt about the outcome of the unit of work for the transaction.

Alternatively, a transaction may have timed out while waiting for Recoverable Resource Management Services (RRMS) to provide the outcome of the unit of work, or RRMS may have failed during the critical indoubt period.

The transaction definition specifies WAIT(YES) as an indoubt attribute. Therefore the unit of work is not completed but is shunted and allowed to wait for resynchronization with the coordinator system. If the WAITTIME attribute is specified on the transaction definition, the unit of work waits for the specified time. If after that time the coordinator system has not resynchronized, a unilateral decision is made about the unit of work as specified by the ACTION keyword on the transaction definition. A WAITTIME of zero, the default, means an indefinite wait. The unit of work can also be forced to take a unilateral decision by means of a CEMT SET UOW command.

System action: The transaction is abnormally terminated. The EXEC CICS HANDLE ABEND command cannot handle this abend.

The associated unit of work is shunted awaiting the return of the coordinator system. Recoverable resources updated by the unit of work remain locked. The locks are released when the unit of work is backed out or committed at resynchronization time, or when a unilateral decision is made by this system.

Message DFHAC2201 is sent to the terminal end user if possible, and message DFHAC2231 is sent to transient data destination CSMT.

User response: None. Any updates performed by the unit of work are resolved automatically when resynchronization with the coordinator system takes place.

Alternatively, the user can force resolution of the updates independently of the coordinator system by making a CEMT request to commit or back out the unit of work.

Module: DFHAPAC o*---------- ABCODE ASP2 ALTERED BY APAR PQ47569 ----------

ASP2

Explanation: A syncpoint has been attempted when an intersystem conversation is in a state in which the EXEC CICS SYNCPOINT command is not allowed. If CICS is connected to a system which must act as LAST AGENT, such as IMS, then this ABEND will be issued from SYNCPOINT processing if a PREPARE has been received on a link to another system. In order to support syncpointing CICS must act as COORDINATOR when it is directly connected to the LAST AGENT, the COORDINATOR system may send PREPARE syncpoint commands but never receives them.

System action: The task is abnormally terminated with a CICS transaction dump which includes terminal control information. In particular, the dump contains state information for the links used by this transaction. The EXEC CICS HANDLE ABEND command cannot handle this abend.

User response: Ensure that the application issues an EXEC CICS SYNCPOINT command only when its sync level 2 conversations are in the correct state. The EXEC CICS SYNCPOINT command may be issued only when each conversation is in one of the following states

SEND
PEND-RECEIVE (Not for MRO)
PEND-FREE
SYNC-RECEIVE
SYNC-SEND (Not for MRO)
SYNC-FREE

Module: DFHAPAC

ASP3

Explanation: An application has requested sync point, either using **EXEC CICS SYNCPOINT** or implicitly using **EXEC CICS RETURN**. The coordinator of the sync point is not this CICS system but is remote. During the sync point protocol the remote coordinator has decided that the unit of work cannot be committed and must be backed out.

This error can occur with external resource managers connected to CICS using the resource manager interface (RMI), CICS systems connected using LU 6.2, MRO, and IPIC. If an external resource manager such as DB2 is the only recoverable resource updated in the transaction, the recovery manager (RM) domain can optimize the sync point protocol. In this instance, the external resource manager becomes the sync point coordinator. In this instance if the external resource manager returns with a backed out response, an ASP3 abend results.

System action: The transaction is abnormally terminated and recoverable resources updated by the unit of work are backed out. The **EXEC CICS HANDLE ABEND** command cannot handle this abend.

Message DFHAC2220 is sent to the terminal user if possible and message DFHAC2250 is sent to transient data destination CSMT.

User response: Check the remote coordinator system to determine why the unit of work was backed out.

Module: DFHAPAC

ASP7

Explanation: A resource manager involved in syncpoint protocols has replied 'No' to a request to 'Prepare'. The resource manager may be local to this CICS system, or may be a remote resource manager on another CICS system, or an external resource manager communicating through the resource manager interface (RMI).

System action: CICS terminates the transaction abnormally. Recoverable resources updated by the unit of work are backed out. The EXEC CICS HANDLE ABEND command cannot handle this abend.

If it is a local resource manager that has voted no, message DFHAC2218 is sent to the terminal end user if possible, and message DFHAC2248 is sent to transient data destination CSMT.

If it is a remote resource manager that has voted no, message DFHAC2219 is sent to the terminal end user if possible, and message DFHAC2249 is sent to transient data destination CSMT.

User response: This abend is caused by a prior problem. For example

- the resource manager cannot flush its buffers because of an I/O error
- the resource manager cannot communicate with CICS because of a TP failure.
- Event Processing is unable to emit a synchronous event

Inspect the CICS message log to determine the cause of the earlier problem and corrrect it. An ASP7 can also occur during terminal or connection install if CICS is short on storage. For instance if message DFHAC2248 shows the transaction as CATA then look for earlier short on storage messages.

Module: DFHAPAC

ASP8

Explanation: The transaction requested syncpoint rollback, but was using a type of processing for which syncpoint rollback is not supported.

System action: CICS terminates the transaction abnormally. The EXEC CICS HANDLE ABEND command cannot handle this abend.

Message DFHAC2217 is sent to the terminal end user if possible, and message DFHAC2247 is sent to transient data destination CSMT.

User response: This error may be an application error or a configuration error. Some communication sessions, (for example, LU6.1) do not support syncpoint rollback, and if CICS detects such a session during rollback processing, the task is abended. This restriction is described in the *CICS Intercommunication Guide*. To resolve the problem, either

- Change the application so that it does not issue syncpoint rollback commands while the non-supporting sessions are allocated (e.g. issue an EXEC CICS FREE first), or
- Change the configuration so that either APPC or MRO sessions are used for communication. These are the only two session types which support syncpoint rollback.

Alternatively, following a session failure during a previous syncpoint, CICS may have decided to rollback this unit-of-work in order to preserve data integrity. Since the unit-of-work contains a session which does not support syncpoint rollback, this abend ensues. In this case, no action is required in response to this abend, although action may be required to deal with the original failure.

Module: DFHAPAC

ASP9

Explanation: The transaction requested syncpoint via EXEC CICS SYNCPOINT, but this is not allowed in a transaction that is acting on behalf of an Activity.

System action: CICS terminates the transaction abnormally. EXEC CICS HANDLE ABEND command cannot handle this abend.

User response: The error indicates an invalid attempt to syncpoint the transaction.

Module: DFHEISP

ASPA

Explanation: The task was purged before a request to recovery manager (RM) domain was able to complete successfully. The domain that first detected the purged condition provides an exception trace.

System action: The task is abnormally terminated with a CICS transaction dump. If processing is at a point where data integrity might not be maintained, CICS is abnormally terminated.

User response: Investigate why the task was purged. This is either as a result of a purge from the master terminal operator via the CEMT transaction, or by the

task being timed out after waiting for longer than the DTIMOUT (deadlock timeout) value specified for the transaction.

If the master terminal operator purged the task, this may have been in an attempt to clear the system which appeared to be deadlocked for some reason.

If the task was timed out automatically as a result of the DTIMOUT value being exceeded, this may be due to insufficient main storage being available for the number of tasks in the system. If the amount of main storage cannot be increased, reduce the number of tasks in the system to avoid short-on-storage situations. Another possibility is to increase the value of the DTIMOUT option for the transaction.

If CICS is abnormally terminated, it should be emergency restarted to ensure that data integrity is maintained.

Module: DFHAPAC

ASPB

Explanation: An error (INVALID, DISASTER or unexpected EXCEPTION response) has occurred on a call to the recovery manager (RM) domain. The domain that detected the original error will have provided an exception trace, a console message and, possibly, a system dump (depending on the options specified in the dump table).

System action: The task is abnormally terminated with a CICS transaction dump. If processing is at a point where data integrity might not be maintained, CICS is abnormally terminated.

User response: See the related message from the domain that detected the original error. If CICS was abnormally terminated, it should be emergency restarted to ensure that data integrity is maintained.

Module: DFHAPAC

ASPC

Explanation: An error (INVALID or DISASTER) has occurred on a call to the bridge syncpoint routine (DFHBRSP). The domain that detected the original error will have provided an exception trace, and, possibly, a system dump (depending on the options specified in the dump table).

System action: The task is abnormally terminated with a CICS transaction dump.

User response: See the related message from the domain that detected the original error.

Module: DFHSPP

ASPD

Explanation: The transaction requested syncpoint via EXEC CICS SYNCPOINT, or rollback via EXEC CICS SYNCPOINT ROLLBACK, but this is not allowed in a transaction that is associated with an OTS transaction.

System action: CICS terminates the transaction abnormally. EXEC CICS HANDLE ABEND command cannot handle this abend.

User response: The error indicates an invalid attempt to syncpoint the transaction.

If DB2 is being accessed in the transaction, check that the DB2ENTRY or DB2CONN pool definition used by the transaction does not specify DROLLBACK(YES).

Module: DFHEISP

ASPF

Explanation: CICS issued an internal syncpoint request resulting in a syncpoint with an intersystem session which has returned ROLLEDBACK to recovery manager (RM) domain. As a result, the transaction is abnormally terminated because the unit of work which was being syncpointed has been backed out.

This could result from shutting down IRC or from the failure of a connected CICS region.

System action: The transaction is abnormally terminated. Recoverable resources updated by the unit of work are backed out and locks released. The EXEC CICS HANDLE ABEND command cannot handle this abend.

Message DFHAC2215 is sent to the terminal end user if possible, and message DFHAC2245 is sent to transient data destination CSMT.

User response: Determine why the remote intersystem session returned a ROLLEDBACK response to the syncpoint request. Once this has been corrected retry the transaction.

To avoid ASPF abends in future, ensure that no in-flight units of work exist before shutting down IRC.

Module: DFHAPAC

ASPI

Explanation: During CICS synchronization level 1 (synclevel 1) commit, an unexpected FMH or no data has been received from the partner system. Local resources and synclevel 2 partners have been committed, but synclevel 1 function-shipped resource updates may have been backed out.

System action: The transaction does not abend. CICS synclevel 1 commit processing continues, with the aim of committing as many synclevel 1 resources as possible.

User response: Examine the transaction dump to determine why the FMH was invalid or missing, It is likely that the error is in the remote system.

See the *CICS Family: Communicating from CICS on zSeries* for more information about syncpointing.

Module: DFHCR2U

ASPJ

Explanation: During CICS synchronization level 1 (synclevel 1) commit, unexpected syncpoint message data has been received from the partner system. Local resources and synclevel 2 partners have been committed, but synclevel 1 function-shipped resource updates may have been backed out.

System action: The transaction does not abend. CICS synclevel 1 commit processing continues, with the aim of committing as many synclevel 1 resources as possible.

User response: Examine the transaction dump to determine why the message data was invalid. It is likely that the error is in the remote system.

See the *CICS Family: Communicating from CICS on zSeries* for more information about syncpointing.

Module: DFHCR2U

ASPN

Explanation: A transaction has issued an EXEC CICS RETURN in backout required program state. The backout required program state is set when an application receives or issues an abend, or receives a backout request on a protected conversation.

System action: The transaction is abnormally terminated. Recoverable resources updated by the unit of work are backed out and locks released. The EXEC CICS HANDLE ABEND command cannot handle this abend.

Message DFHAC2216 is sent to the terminal end user if possible, and message DFHAC2246 is sent to transient data destination CSMT.

User response: To avoid the transaction abend, the application should code an EXEC CICS SYNCPOINT command before the EXEC CICS RETURN. A syncpoint issued in 'backout required' program state results in a backout being performed, and the ROLLEDBACK condition returned on the EXEC CICS SYNCPOINT command. If this condition is then handled, a subsequent EXEC CICS RETURN will complete successfully. For LU61 conversations the application should issue an EXEC CICS FREE followed by an EXEC CICS SYNCPOINT ROLLBACK, in order to avoid a subsequent ASP8 abend.

Module: DFHAPAC

ASPO

Explanation: An intersystem session failed while a syncpoint was being taken. The intersystem session that failed was the link to the coordinator system. The failure occurred during the indoubt period of syncpoint processing. As a result this CICS system is in doubt as to the outcome of the unit of work for the transaction.

The unit of work is not shunted to await the return of the coordinator system, but is instead unilaterally committed. The unit of work is not shunted for one of the following reasons

- The transaction definition specifies WAIT(NO).
- The unit of work includes an MRO session to a back-level CICS system which does not support the WAIT(YES) option, and the role of the session in the unit of work is such that it cannot await the return of the coordinator system.
- The unit of work includes an LU6.1 session, and the role of the session in the unit of work is such that it cannot await the return of the coordinator system.
- The unit of work involves a task related user exit which is not enabled with the INDOUBTWAIT option.
- The unit of work has updated a recoverable transient data destination, which is defined with WAIT(NO).
- The unit of work involves the installation of CICS resource definitions from the CSD (CICS system definition) file.

The unit of work is committed, rather than backed out, because the transaction definition specifies ACTION(COMMIT).

The fact that the unit of work is committed is remembered by the recovery manager (RM) domain until the unit of work is resynchronized with the coordinator system. At this time, according to whether the coordinator system committed or backed out, the recovery manager domain issues resynchronization messages reporting whether or not the resolution of the unit of work in the subordinate system was consistent with the coordinator system.

System action: The transaction is abnormally terminated. Recoverable resources updated by the unit of work are committed and locks released. The EXEC CICS HANDLE ABEND command cannot handle this abend.

Message DFHAC2202 is sent to the terminal end user if possible, and message DFHAC2232 is sent to transient data destination CSMT.

User response: Any updates performed by the unit of work are committed. There is a danger that recoverable resources will be inconsistent with the coordinator system if the coordinator system has backed out. If the reason for the failure is the first of those listed above and if you wish CICS to ensure that data integrity is maintained, change the indoubt transaction definition

to specify WAIT(YES) so that CICS automatically handles indoubt failures and resynchronizes the unit of work when the link to the coordinator system is reestablished.

Module: DFHAPAC

ASPP

Explanation: An intersystem session failed while a syncpoint was being taken. The intersystem session that failed was the link to the coordinator system, and the failure occurred during the critical indoubt period of syncpoint processing. As a result this CICS system is in doubt as to the outcome of the unit of work for the transaction.

The unit of work is not shunted to await the return of the coordinator system. Instead it is unilaterally backed out. The unit of work is not shunted for one of the following reasons

- The transaction definition specifies WAIT(NO).
- The unit of work includes an MRO session to a back-level CICS system which does not support the WAIT(YES) option, and the role of the session in the unit of work is such that it cannot await the return of the coordinator system.
- The unit of work includes an LU6.1 session, and the role of the session in the unit of work is such that it cannot await the return of the coordinator system.
- The unit of work involves a task related user exit which is not enabled with the INDOUBTWAIT option.
- The unit of work has updated a recoverable transient data destination, which is defined with WAIT(NO).
- The unit of work involves the installation of CICS resource definitions from the CSD (CICS system definition) file.

The unit of work is backed out, rather than committed, because the transaction definition specifies ACTION(BACKOUT).

The fact that the unit of work is backed out is remembered by recovery manager (RM) domain until the unit of work is resynchronized with the coordinator system. At this time, according to whether the coordinator system backed out or committed, the recovery manager domain issues resynchronization messages reporting whether or not the resolution of the unit of work in the subordinate system was consistent with the coordinator system.

System action: The transaction is abnormally terminated. Recoverable resources updated by the unit of work are backed out and locks released. The EXEC CICS HANDLE ABEND command cannot handle this abend.

Message DFHAC2203 is sent to the terminal end user if possible, and message DFHAC2233 is sent to transient data destination CSMT.

User response: Any updates performed by the unit of work are backed out. There is a danger that recoverable resources will be inconsistent with the coordinator system if the coordinator system has committed. If the reason for the failure is the first of those listed above and if you wish CICS to ensure that data integrity is maintained, change the indoubt transaction definition to specify WAIT(YES) so that CICS automatically handles indoubt failures and resynchronizes the unit of work when the link to the coordinator system is reestablished.

Module: DFHAPAC

ASPQ

Explanation: During phase 2 of the two phase syncpoint protocol an error occurred while communicating with a remote system. The error occurred after the recoverable resources were committed or backed out, so data integrity is not in danger.

System action: The transaction is abnormally terminated. Recoverable resources updated by the unit of work will have backed out or committed depending on the decision taken by the recovery manager (RM) domain, which was not influenced by this later problem. The EXEC CICS HANDLE ABEND command cannot handle this abend.

Message DFHAC2221 is sent to the terminal end user if possible, and message DFHAC2251 is sent to transient data destination CSMT.

User response: Refer to earlier messages issued by the communication or remote resource management components of CICS to determine the cause of the intersystem communication problem.

Module: DFHAPAC

ASPR

Explanation: Intersystem communication failed while a syncpoint was being taken. Communication with the coordinator system has been interrupted, and the failure occurred during the critical indoubt period of syncpoint processing. As a result this CICS system is in doubt as to the outcome of the unit of work for the transaction.

However, this CICS system has not updated any recoverable resources in the unit of work and hence does not require the unit of work to be shunted to await resynchronization of its resources later. The coordinator system commits or backs out its resources. No resources on this system need to be kept in step.

This error can occur with external resource managers connected to CICS via the resource manager interface (RMI) as well as CICS systems connected via LU 6.2, and MRO. If an external resource manager such as DB2 is the only recoverable resource updated in the

transaction, the recovery manager (RM) domain can optimize the syncpoint protocol. In this instance, the external resource manager becomes the syncpoint coordinator. If the link to the external resource manager is lost during this time, CICS will be indoubt as to whether the external resource manager updates were committed or backed out.

System action: The transaction is abnormally terminated. There are no recoverable resources affected in this CICS system. The EXEC CICS HANDLE ABEND command cannot handle this abend.

Message DFHAC2222 is sent to the terminal end user if possible, and message DFHAC2252 is sent to transient data destination CSMT.

User response: Refer to messages on the remote system to determine if the remote resources were backed out or committed.

Module: DFHAPAC

ASQA

Explanation: The CLS2 transaction was processing resynchronization work but the communications session which it was using has failed.

System action: The work is reexecuted on a new session. If reexecution has has already been attempted, the transaction terminates.

User response: The error may be caused by the failure of several sessions between communicating systems during the resynchronization process. To confirm this, examine the CSMT transient data queue for the relevant period.

Another cause could be logic errors within the resynchronization program, either on this system or on the partner system, which caused the session to be terminated. In this case, CSMT transient data messages indicate the nature of the error.

Module: DFHCRRSY

ASQB

Explanation: The CLS2 transaction was executing exchange log names or resynchronization with a remote system when a logic error occurred.

System action: The transaction is abnormally terminated with a transaction dump.

Message DFHRS2158 may also be issued.

User response: You need further assistance from IBM to resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHCRRSY

ASQC

Explanation: The CLS2 transaction was attached with an unexpected start code. The transaction can be attached due to terminal input (on a communications session), or via a system attach. Neither of these methods was used.

System action: The transaction is abnormally terminated.

User response: The error indicates an invalid attempt to start the transaction.

Module: DFHCRRSY

ASQD

Explanation: The CLS2 transaction was attached but could not use the transaction manager interface to obtain input parameters.

System action: The transaction is abnormally terminated.

User response: The error indicates a failure in the transaction manager. See the exception trace entries produced by the transaction managed to determine the reason for the error.

Module: DFHCRRSY

ASQE

Explanation: The CLS2 transaction was executing exchange log names with a remote system and 3 retry attempts have failed to solicit a warm exchange log names reply, in response to a warm exchange log names request sent by CICS.

System action: The transaction is abnormally terminated with a transaction dump.

User response: This abend indicates an error in the remote system. It should have saved the log name sent by CICS and, on receiving a later exchange lognames request, should then respond with a warm reply.

Module: DFHCRRSY

ASQG

Explanation: The CLS2 transaction was executing resynchronization work and has failed during the receipt of data from remote system via an MRO session. The data was longer than expected.

System action: The transaction is abnormally terminated with a transaction dump.

User response: The abend indicates a CICS logic error, possibly in the remote system. The transaction storage in the dump shows the data received. The transaction trace shows the preceding flows between the systems, which should match those documented in the *SNA LU6.2 Reference: Peer Protocols* manual, SC30-6808.

You need further assistance from IBM to resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHCRRSY

ASQH

Explanation: The CLS2 transaction was executing resynchronization work and has failed during the receipt of data from remote system via an MRO session. The data was shorter than the minimum length expected.

System action: The transaction is anormally terminated with a transaction dump.

User response: This indicates a CICS logic error, possibly in the remote system. The transaction storage in the dump shows the data received. You need further assistance from IBM to resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHCRRSY

ASQI

Explanation: The CLS2 transaction was executing the exchange lognames process as part of the initialization sequence for an APPC connection. An attempt to invoke the CICS recovery manager to save a logname failed.

System action: The transaction is abnormally terminated with a transaction dump.

Message DFHRS2157 may also be issued.

User response: This indicates an error in the CICS recovery manager which has produced its own exception trace records. Look at the trace records and the CSMT message log for further information about the error.

Module: DFHCRRSY

ASQK

Explanation: The CLS2 transaction was processing exchange lognames or resynchronization for a connected partner identified by a netname. The connection entry associated with the netname was located and locked, but could not be unlocked in subsequent processing. This indicates a CICS internal logic error.

System action: The transaction is abnomally terminated with a transaction dump.

Message DFHRS2156 may also issued.

User response: This indicates an error either in the CICS table manager, (which may have produced its own exception trace records) or in the resynchronization program itself. Look at the trace records and the CSMT message log for further information which might have indicated an error in the table manager program or in the table entry for the connection. You need further assistance from IBM to resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHCRRSY

ASQL

Explanation: The CLS2 transaction was executing the resynchronization of a unit of work with a connected partner, and has locked the associated data managed by the CICS recovery manager. The invocation of the TERMINATE_RECOVERY command to unlock the data failed.

System action: The transaction is abnormally terminated with a transaction dump.

Message DFHRS2154 is also issued.

User response: This indicates an error either in the CICS recovery manager (which may have produced its own exception trace records) or in the resynchronization program itself. Look at the trace records and the CSMT message log for further information. You need further assistance from IBM to resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHCRRSY

ASQM

Explanation: A CICS internal logic error has occurred in the management of dynamic storage for the resynchronization program.

System action: The transaction is abnormally terminated with a transaction dump.

User response: This indicates that the resynchronization program has exhausted the available space for recording storage areas. The symptoms may indicate that the program was looping without executing the error recovery process. You need further assistance from IBM to resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHCRRSY

ASRA

Explanation: The task has terminated abnormally because of a program check.

System action: The task is abnormally terminated and CICS issues either message DFHAP0001 or DFHSR0001. Message DFHSR0622 may also be issued.

User response: Refer to the description of the associated message or messages to determine and

correct the cause of the program check.

Module: DFHSRP

ASRB

Explanation: An operating system abend has occurred and CICS has been able to abend the current transaction.

System action: The task is abnormally terminated and CICS issues either message DFHAP0001 or DFHSR0001

User response: Refer to the description of the associated message to determine the cause of the original operating system abend, and take the necessary corrective action.

Module: DFHSRP

ASRD

Explanation: The task has been abnormally terminated for one of these reasons

- A program contains an assembler macro call which is no longer supported by CICS.
- An invalid attempt has been made to access the CSA or TCA.
- An attempt to access a TCA via field CSAQRTCA (previously CSACDTA) has been made.
- A non-assembler program has been wrongly defined to CICS as an assembler program.

This error appears as a program check.

System action: The task is abnormally terminated and CICS issues message DFHSR0618, followed by either DFHAP0001 or DFHSR0001.

User response: Refer to the description of the associated messages to determine and correct the error.

It is likely that either R12 which usually addresses the TCA or R13 which usually addresses the CSA is pointing to an area of storage that you are not allowed to access.

Module: DFHSRP

ASRE

Explanation: The task has been abnormally terminated because an attempt has been made to access a CICS-DB2 RCT load module.

The RCT nolonger exists as a load module and cannot be accessed directly.

To access information about CICS DB2 resource definitions, use the CICS SPI commands EXEC CICS INQUIRE/SET DB2CONN, EXEC CICS INQUIRE/SET DB2ENTRY and EXEC CICS INQUIRE/SET DB2TRAN.

This error appears as a program check.

System action: The task is abnormally terminated and CICS issues message DFHSR0619, followed by either DFHAP0001 or DFHSR0001.

User response: Change the application to use the CICS SPI commands to access information about CICS DB2 resource definitions.

Module: DFHSRP

ASRJ

Explanation: The task has terminated abnormally because a AP domain global user exit or task related user exit invoked by the task has made a backlevel XPI call.

System action: The task is abnormally terminated. CICS will have issued error message DFHAP0702 or DFHAP0708 which will have identified the exit program that made the backlevel XPI call.

User response: Reassemble the exit program using the latest CICS libraries.

Module: DFHSRP

ASRK

Explanation: The AP domain recovery stub, DFHSR1, has been invoked to deal with a program check, operating system abend, or another error within a transaction environment. However, DFHSR1 has been unable to call the system recovery program, DFHSRP, because register 12, which should be pointing to the task control area (TCA), is null. This indicates that the caller of DFHSR1, has not set the address of the TCA..

System action: The task is abnormally terminated with a CICS transaction dump.

User response: You need further assistance from IBM to resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHSR1

ATxx abend codes

ATC1

Explanation: The CICS terminal control restart task could not complete because a necessary step failed. The task has done some essential recovery operations and abnormally terminated itself with code ATC1.

System action: CICS writes a transaction dump for the terminal control restart task.

CICS sends two messages to the console, one to identify the error detected by the terminal control restart task, and DFHTC1001 to report that the task has failed. A third message follows either to say that CICS

has terminated abnormally with a dump, or to ask you to reply GO or CANCEL. Depending on the nature of the original error, you may see messages from some other system component (for example, an access method).

User response: First, if CICS has requested a response, you must reply. If you reply 'GO', CICS continues processing, but without terminal control. If you reply 'CANCEL', CICS terminates abnormally with a dump.

Use the messages and dumps to find out the cause of the failure.

Module: DFHTCRP

ATC2

Explanation: A CICS z/OS Communications Server SET VTAM OPEN command has failed due to z/OS Communications Server rejecting a CICS request.

System action: Message DFHZC2302, DFHZC2304 or DFHZC2307 is sent to the console, and CICS terminates the transaction abnormally with a transaction dump.

User response: The RPL with the z/OS Communications Server request code and return code can be found in the RA pool addressed from TCTVRVRA. After correcting the error, either retry the request or terminate CICS and restart the network in your own time.

Module: DFHZSLS

ATC3

Explanation: A write to a TLX device was issued with a data length of 0 causing TIOA data length (TIOATDL) to be zero.

System action: The transaction is abnormally terminated with a CICS transaction dump.

User response: For an error writing to a TLX device correct the error in the user program by ensuring that a data length for data to be placed in the terminal input/output area (TIOA) is provided at write time.

Module: DFHZARL DFHZARQ

ATC4

Explanation: A serious CAVM error has occurred. The XRF TCB has abended.

System action: CICS abnormally terminates with a system dump.

User response: Use the dump and the guidance in any messages issued by other system components to diagnose and correct the original error.

See the *CICS Problem Determination Guide* for further guidance on using system dumps.

Module: DFHTCRP

ATC5

Explanation: An internal logic error has been detected during APPC mapped processing. The conversation state maintained by DFHZARL does not match the state which is jointly maintained by DFHETL and DFHZARM.

This problem could also arise when CICS is receiving application data. CICS may receive and end of chain notification before receiving all the data expected.

System action: The task is abnormally terminated with a CICS transaction dump. CICS processing continues.

User response: You need further assistance from IBM to resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHETL

ATC6

Explanation: DFHETL has a SEND DATA request with a data length greater than 65␣528 bytes which is the maximum that it can process.

System action: The transaction is abnormally terminated with a CICS transaction dump.

User response: This is a CICS internal logic error. You need further assistance from IBM to resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHETL

ATC7

Explanation: DFHZSUP has detected a bad response from an INITIAL-CALL request to DFHZARL. This response is returned to DFHZSUP in the DFHLUC parameter list.

System action: The transaction is abnormally terminated with a CICS transaction dump.

User response: Examine field LUCCDRCD in the DFHLUC parameter list. This appears in the ENTRY/EXIT trace points for DFHZARL. If trace is switched off, then it can be found in DFHZSUP's LIFO entry in the transaction dump.

- LUCCDRCD = 'A0000100' - session failure
- LUCCDRCD = 'A0010100' - read timeout
- LUCCDRCD = 'A0010000' - deadlock timeout.

(The offset for LUCCDRCD can be found in *CICS Data Areas*).

If LUCCDRCD is X'00000000, the error is the result of a connection failure. In this case examine the CSMT log for further diagnostic information.

Module: DFHZSUP

ATC8

Explanation: An error has occurred during the processing of an inbound function management header (FMH). Either a length error has been detected, for example, incomplete FMH received, or an invalid field has been detected within the FMH.

System action: The transaction is abnormally terminated with a CICS transaction dump.

User response: Notify the system programmer of the error. The problem is probably in the remote system that has sent the invalid FMH.

Module: DFHETL

ATC9

Explanation: A DFHKC RESUME macro call has been issued for a task without first issuing DFHKC SUSPEND. DFHKC RESUME must be preceded by DFHKC SUSPEND.

System action: The transaction is abnormally terminated with a transaction dump.

User response: Examine the trace entry to locate the error.

Module: DFHZNCE

ATCA

Explanation: The system was in a final quiesce mode when the CICS application program issued a DFHTC macro.

System action: The task requesting the I/O is abnormally terminated with a CICS transaction dump.

User response: None.

Module: DFHZARQ

ATCB

Explanation: The CICS application program issued two consecutive DFHTC writes or two consecutive DFHTC reads, but in either case did not issue an intervening wait.

System action: The transaction is abnormally terminated with a CICS transaction dump.

User response: Take corrective action within the program being executed.

This is almost certainly an application program error. Determine the flow of control through the application and determine why an intervening wait is not issued. The trace table may be useful to discover where the application is issuing the read and write requests. If necessary, start trace or auxiliary trace using the master terminal command and rerun the transaction to obtain a trace. The output of the auxiliary trace can be printed using the trace utility program, DFHTU670.

Problem determination: A transaction dump is provided with this abend. In the dump, register 12 addresses the current TCA, and register 10 and the field TCAFCAAA address the TCTTE associated with this task. In TCATPOS2, bit TCATPOWR (X'01) indicates that a write is requested by the DFHTC macro, and bit TCATPORR (X'10) indicates that a read is requested. In TCTTEOS, bit TCTTEOWR (X'01) indicates that a write is in progress, and bit TCTTEORR (X'10) indicates that a read is in progress.

Analysis:

Register	Label	Description
R10=@TCTTE R12=@TCA	TCZARQ05 (TCZAQ1W)	Bit TCATPOWR is on in byte TCATPOS2, and bit TCTTEOWR is on in byte TCTTEOS.
R10=@TCTTE R12=@TCA	TCZARQ05 (TCZAQ2W)	Bit TCATPOWR is on in byte TCATPOS2, and bit TCTTEORR is on in byte TCTTEOS.
R10=@TCTTE R12=@TCA	TCZARQ12	Bit TCATPORR is on in byte TCATPOS2, and bit TCTTEORR is on in byte TCTTEOS.

Module: DFHZARQ

ATCC

Explanation: An application program, using a pipeline session, has either issued more than one write request or issued a read request.

System action: The transaction is abnormally terminated with a CICS transaction dump.

User response: Correct the application program so that it will not issue more than one consecutive WRITE to a pipeline session terminal.

Module: DFHZARQ

ATCD

Explanation: This abend code is used whenever a CTYPE request or a QUEUE request is issued and z/OS Communications Server or a ZCP function has not been included in the system.

It is also used to abend a task that issues an APPC command when the CICS system is not at a level to support APPC.

System action: The transaction is abnormally terminated with a CICS transaction dump.

User response: Correct the transaction so that it does not issue a CTYPE macro instruction if z/OS Communications Server is not generated into the system, or include the ZCP function for which the CTYPE or QUEUE request was issued.

Module: DFHZDSP, DFHZERH

ATCE

Explanation: A CICS application program has issued a DFHTC request without specifying the address of a TIOA, but the request is not an ERASE ALL UNPROTECTED or a READBUF request for a 3270 data stream terminal.

System action: The transaction is abnormally terminated with a CICS transaction dump.

User response: Correct the error in the user program by ensuring that a terminal input/output area (TIOA) is provided at write time.

This is almost certainly an application program error. Determine the flow of control through the application and determine why a TIOA has not been specified.

Problem determination: A transaction dump is provided with this abend. In the dump, register 12 addresses the current TCA, and register 10 and the field TCAFCAAA addresses the TCTTE associated with this task. Register 8 and TCTTEDA should contain the address of the TIOA to be used in the I/O request, but actually they contain zero. For a 3270 data stream terminal, byte TCTETDST has bit TCTETTSI (X'01) set. An erase-all-unprotected request is indicated by the setting of bit TCTTEEUI (X'40) in byte TCTTEEUB, and a read buffer request is indicated by the setting of bit TCTTERBI (X'80) in byte TCTTERBB. **Analysis:**

Register	Label	Description
R10=@TCTTE	TCZARQ41	NIOABAR (register 8) contains zero.
R8=0		Register 8 has been loaded field TCTTEDA of the TCTTE associated with this task.

Module: DFHZARQ

ATCF

Explanation: A DFHTC CTYPE macro was issued to a non-z/OS Communications Server terminal control table terminal entry (TCTTE), or a DFHTC CTYPE=COMMAND or RESPONSE macro was issued to a z/OS Communications Server 3270 TCTTE.

System action: The transaction is abnormally terminated with a CICS transaction dump.

User response: Ensure that the program issues CTYPE macros to z/OS Communications Server terminals only, and does not issue CTYPE=COMMAND or RESPONSE to a z/OS Communications Server 3270.

Module: DFHZCRQ

ATCG

Explanation: A CICS application program has issued a DFHTC request for a terminal that it does not own. The problem of ownership may be because the task previously issued a WRITE,LAST request (which would have detached the terminal from that task) or because the task incorrectly specified the terminal to which the request is directed.

System action: The transaction is abnormally terminated with a CICS transaction dump.

User response: This is most probably an application error (unless storage has been completely overwritten). Determine the flow from the trace table and when a request to the DFHZCP detach routine, DFHZDET, or a DFHTC WRITE,LAST was issued.

Problem determination: Register 12 addresses the current TCA and register 10 contains the address of the TCTTE. The address of the TCTTE was obtained either from TCAFCAAA in the case of a non-ISC transaction, or from TCATPTA if bit TCATPTTA (X'40) is on in byte TCATPOC3 (this indicates that TERM=YES was specified on the DFHTC request and that this is an ISC transaction). In the TCTTE thus located, the field TCTTECA does not contain the address of the TCA, indicating that this TCA is not owned by this task.

Analysis: A DFHTC request has been issued specifying a TCTTE in which the field TCTTECA does not contain the address of the TCA.

Register	Label	Description
R10=@TCTTE	TCZARQ05	TCTTECA is not equal to register 12.

Module: DFHZARQ

ATCH

Explanation: The task was purged before a domain call was able to complete successfully. The task that first detected the purged condition provides an exception trace.

System action: The task is abnormally terminated with a CICS transaction dump.

User response: Investigate why the task was purged. It was purged either as a result of a purge from the master terminal operator via the CEMT transaction, or by the task being timed out after waiting for longer than the DTIMOUT (deadlock timeout) value specified for the transaction, or by CICS issuing a purge request.

If the master terminal operator purged the task, this may have been in an attempt to clear the system which appeared to be deadlocked for some reason.

If the task was timed out automatically as a result of the DTIMOUT value being exceeded, this may be due to insufficient main storage being available for the number of tasks in the system. If the amount of main storage cannot be increased, reduce the number of tasks in the system to avoid short-on-storage situations. Another possibility is to increase the value of the DTIMOUT option for the transaction.

When CICS purges a task, it does so to allow an operation to complete which would be held up by the

presence of active tasks, or to ensure data integrity. For example, CICS will purge a task which has made recoverable updates to a coupling facility data table if it determines that the coupling facility data table server for the pool in which that table resides has recycled, to ensure that all updates in the unit of work will be backed out.

Module: DFHBSM62 DFHBSS DFHBSSZ DFHBSTZ DFHBSTZV DFHBSTZ1 DFHBSTZ2 DFHTBSB DFHTBSBP DFHTBSD DFHTBSDP DFHTBSL DFHTBSLP DFHTBSQ DFHTBSR DFHTBSRP DFHTBSSP DFHTCRP DFHTOASE DFHTOATM DFHTOLCR DFHTOLUI DFHTRZCP DFHTRZIP DFHTRZPP DFHTRZXP DFHTRZYP DFHTRZZP DFHZCQCH DFHZCQDL DFHZCQIQ DFHZCQIS DFHZCQRS DFHZCQ00 DFHMRXM DFH62XM

ATCI

Explanation: An error (INVALID, DISASTER, or unexpected EXCEPTION response) has occurred on a call to module DFHRTSU. The module that detected the original error provides an exception trace, a console message and, possibly a system dump (depending on the options specified in the dump table).

System action: The task is abnormally terminated with a CICS transaction dump.

User response: See the related message produced by the module that detected the original error.

Module: DFHZSUP DFHMRXM DFH62XM

ATCJ

Explanation: This abend is issued by DFHZATA in the following circumstances
- Transaction CATA is issued from a terminal
- The address of the AWE (TCAFCAAA) is 0
- The AWE is invalid (TCTWETYP should be TCTTEAWE)
- An abend is issued early in DFHZATA.

This abend is issued by DFHZATD in the following circumstances
- Transaction CATD is issued from a terminal
- The address of the AWE (TCAFCAAA) is 0
- TCAFCAAA is an AWE and not a terminal
- An abend is issued early in DFHZATD.

This abend is issued by DFHZATR in the following circumstances
- Transaction CATR is issued from a terminal
- An abend is issued early in DFHZATD.

System action: CICS rejects the request.

User response: Determine the issuing program and the reason for the abend and take the appropriate action as follows

Do not try to invoke CATA, CATD or CATR from a terminal.

If the address in TCAFCAAA is incorrect, the calling mechanism has failed. This is a CICS logic error.

If an abend has been issued, use the transaction dump to determine where the abend occurred. This is a CICS logic error.

Module: DFHZATA DFHZATD DFHZATR

ATCK

Explanation: An application program has issued a WRITE to a z/OS Communications Server terminal specifying CCOMPL=NO without being authorized to do so.

System action: The transaction is abnormally terminated with a CICS transaction dump.

User response: Specify CHAINCONTROL in the transaction profile.

Module: DFHZARQ

ATCL

Explanation: An error has occurred either during automatic journaling or automatic logging of terminal messages to or from this transaction. The message being logged will be one associated with an explicit READ or WRITE in the application program.

System action: The transaction is abnormally terminated with a CICS transaction dump.

User response: Use the dump to ascertain why the journal or log record could not be written correctly. If a journal record length error is indicated, TIOATDL may have been corrupted.

Problem determination: Register 12 addresses the current TCA and field TCAJCAAD and register 4 address the JCA. The log manager request is contained in JCATR2 and the response code is in JCAJCRC.

Possible request codes are

```
X'8001' - WRITE
X'8003' - PUT
```

Possible response codes are

```
X'01' - IDERROR - Journal identification error
X'02' - INVREQ  - Invalid request
X'03' - STATERR - Status error
X'05' - NOTOPEN - Journal not open
X'06' - LERROR  - Journal record length error
X'07' - IOERROR - I/O error.
```

The address of the TIOA is contained in register 8 and its data length is in TIOATDL.

Analysis:

Register	Label	Description
R4=@JCA	TCZARQPJ	JCAJCRC is nonzero.

Module: DFHETL, DFHTCPCM, DFHZARQ

ATCN

Explanation: An error has occurred during the automatic journaling or automatic logging of the initial input message of this transaction. This input message is the message that actually caused the transaction to be invoked.

System action: The transaction is abnormally terminated with a CICS transaction dump.

User response: Use the dump to ascertain why the log record could not be written correctly.

If a journal record length error is indicated, TIOATDL (X'08) may have been corrupted.

Problem determination: Register 12 addresses the current TCA and field TCAJCAAD and register 4 address the JCA. The log manager request is contained in JCATR2 and the response code is in JCAJCRC.

Possible request codes are

```
X'8001' - WRITE
X'8003' - PUT
```

Possible response codes are

```
X'01' - IDERROR - Journal identification error
X'02' - INVREQ  - Invalid request
X'03' - STATERR - Status error
X'05' - NOTOPEN - Journal not open
X'06' - LERROR  - Journal record length error
X'07' - IOERROR - I/O error.
```

Analysis:

Register	Label	Description
R4=@JCA	TCZARQJP	JCAJCRC is nonzero.
	TCZSUPJW	Journal error.

Module: DFHZSUP DFH62XM DFHTFXM

ATCO

Explanation: An application program has attempted to perform a function not supported by a terminal or system.

Possible errors are

1. **SIGNAL not supported**.

   A DFHTC TYPE=SIGNAL request with the WAIT=YES option was issued to a z/OS Communications Server logical unit that CICS does not support for the receipt of the SIGNAL indicator.
2. **WRITE STRUCTURED FIELD not supported**.

   This write may have been attempted as a result of a SEND command with the STRFIELD keyword to a device that does not support this function.
3. **APPC mapped conversation not supported**.

   The application has attempted to perform a normal terminal control command on a session that is in use for an APPC unmapped conversation. (Only EXEC CICS GDS commands are permitted.)

System action: The transaction is abnormally terminated with a CICS transaction dump.

User response: Correct the application program.

Module: DFHZARQ

ATCQ

Explanation: The application program issued a write operation to a terminal that was in send status. In order to allow this write to proceed, a signal command was sent, and DFHZCP started to read data from the terminal waiting for the change direction indication. As each data record is received, it is placed on temporary storage and, for one of these operations, a temporary storage error has occurred.

System action: The transaction is abnormally terminated with a CICS transaction dump.

User response: Check that temporary storage has been included in the system and that it has sufficient space.

If an invalid request is indicated, check that the length of the data being written to temporary storage is not greater than the VSAM control interval size minus 84. The length of the data is in TIOATDL (which is 8 greater than the length of the data that is read in by DFHZCP).

Problem determination: Register 12 addresses the current TCA. TCACCSV1 contains a saved copy of TCATSTR containing the temporary storage response code. The temporary storage response code may be one of

```
X'04' - IOERROR - I/O error
X'08' - NOSPACE - No temporary storage space
X'20' - INVREQ  - Invalid request.
```

The temporary storage identification is constructed by concatenating the character string “DFHQ” with the terminal identification from TCTTETI. The temporary storage identification is placed in TCATSDI.

Register 8 and field TCTTEDA address the TIOA that is being written to temporary storage. The address passed to temporary storage is that of TIOATDL.

Analysis: After the DFHTS TYPE=PUTQ, the temporary storage response code was not zero.

Register	Label	Description
R12=@TCA	ZRAQ60	TCATSTR is nonzero.

Module: DFHZRAQ

ATCR

Explanation: An application program has issued a read operation, after a previous write operation has caused DFHZCP to read-ahead data from the terminal in order to avoid a lock-out. DFHZCP has now issued a DFHTS GETQ to retrieve the saved data from temporary storage, and an error has occurred.

System action: The transaction is abnormally terminated with a CICS transaction dump.

User response: Determine the cause of the temporary storage error and correct it.

If a temporary storage identification error is indicated, examine TCTTETI for a valid terminal identification.

Problem determination: Register 12 addresses the current TCA. TCACCSV1 contains a saved copy of TCATSTR that contains the temporary storage response code. The temporary storage response code may be one of

```
X'01' - ENERROR - Entry error
X'02' - IDERROR - Identification error
X'04' - IOERROR - I/O error
X'20' - INVREQ  - Invalid request
```

The temporary storage identification is constructed by concatenating the character string “DFHQ” with the terminal identification from TCTTETI. The temporary storage identification is placed in TCATSDI.

Analysis: After the DFHTS TYPE=GETQ, the temporary storage response code was not zero.

Register	Label	Description
R12=@TCA	ZRAR90	TCATSTR is not zero.

Module: DFHZRAR

ATCS

Explanation: An application program attempted to send data to a logical unit after a SIGNAL data flow command with an RCD (request change direction) has been received. This condition arises when the application handles the IGREQCD exceptional condition incorrectly.

System action: The transaction is abnormally terminated with a CICS transaction dump.

User response: Handle the IGREQCD exceptional condition correctly.

Module: DFHZARQ

ATCT

Explanation: An attempt to build a surrogate TCTTE to represent a remotely-owned terminal failed.

System action: The task is abnormally terminated with a CICS transaction dump.

User response: You need further assistance from IBM to resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHZSUP DFHMRXM DFH62XM

ATCU

Explanation: An application program attempted to send data to a logical unit, but was in receive mode (EIBRECV is set), and read-ahead queuing was not specified in installed profile definition (RAQ=NO).

System action: The transaction is abnormally terminated with a CICS transaction dump.

User response: Either change the application program to issue receives until EIBRECV is not set, or specify RAQ=YES in the installed profile definition (If RAQ=YES is specified, ensure that all input messages are read before the transaction is terminated.)

Module: DFHZARQ

ATCV

Explanation: An application attempted an operation on a logical unit, but was not in the correct mode for one of the following reasons

1. When issued by DFHZARQ, CICS cannot perform the current request because another request is outstanding (EIBSYNC is set). This holds for APPC or non-APPC systems
2. When issued by DFHETL, the application is communicating with an APPC system, and is not in the correct state to perform the attempted operation. This holds for APPC systems only
3. When issued by DFHZISP, a TCTTE free was requested, and there is an outstanding sync point request. This holds for non-APPC systems only
4. When issued by DFHZISP, a TCTTE free was requested, the TCTTE is in receive mode, and RAQ=NO was specified in the installed profile definition. This holds for non-APPC systems only.

System action: The transaction is abnormally terminated with a CICS transaction dump.

User response: The response depends on the reason for the error as follows

1. Issue a sync point and then issue the request.
2. Issue the free request and reallocate the session.
3. Either change the application to issue receives until EIBRECV is not set, or specify RAQ=YES in the installed profile definition. (If you specify

RAQ=YES in the installed profile definition, ensure that all input messages are read before the transaction is terminated.)

4. See the *CICS Distributed Transaction Programming Guide* where rules for the correct use of commands are given. Then correct the application.

The application program has attempted an operation on a logical unit that is invalid, because the program's current status on the session with that logical unit does not permit it. An investigation of the TCTTE (that is, Session), status bytes, and TCA type of request bytes will reveal which of the above problems are relevant.

When the cause of the problem has been ascertained, the application program should be changed to ensure that the session-oriented information is acted upon before any further requests are sent across that session. The session status information is made available to the application program in the exec interface block (EIB) immediately following the execution of RECEIVE, CONVERSE, or RETRIEVE requests across the session. The relevant bytes must be tested, strictly in the order shown, and acted upon, before any further operations are attempted on the session. In addition, the status information bytes themselves are necessarily volatile in that they are reset before the execution of every EXEC CICS... statement. Thus it is good programming practice to save them into application user storage after a RECEIVE, CONVERSE, or RETRIEVE for later testing. The states are

1. EIBSYNC
the application must take a syncpoint

2. EIBFREE
the application must free the session (or terminate when the session will be freed automatically)

3. EIBRECV
the application must continue receiving data by issuing further RECEIVE commands; by definition, data cannot be sent while in this state.

Some of these status tests can sometimes be omitted (for example, testing of the EIBSYNC status is not essential if it is known that the application program on the remote system never issues sync point requests itself). However, the tests should always be carried out, particularly if the remote application might be amended at a future date, in which event the session handling logic may well be altered. Also, it may be that the remote transaction itself causes an unsuspected flow on the session. For example, if the remote program issues EXEC CICS SEND..... LAST across the session, followed by RETURN, a syncpoint request (RQD2) will be added onto the transmitted data. (The application programmer is referred to the *CICS Distributed Transaction Programming Guide* for a discussion of this topic). As a result of this addition, an unsuspected syncpoint request is received by the local application, which abend if the session is freed without the sync point request being honored. An ATCV abend is also raised by module DFHETL if a state error occurs during processing of an APPC mapped application (that is, the program attempts to perform an operation while in the wrong state). The handling of APPC mapped applications is described in the *CICS Diagnosis Reference*. Some commands are processed by DFHZARQ, as above, and others by various other modules invoked by DFHETL. Rules for using commands for APPC are given in the *CICS Distributed Transaction Programming Guide*. Reference to this guide should reveal the programming error.

Problem determination: Register 12 addresses the current TCA. Register 10 and field TCAFCAAA address TCTTE. The terminal byte TCTTECRE has bit TCTEUCOM (X'02) set if sync point is required, and TCTEUFRT (X'04) set if Free Session is required; TCTESMDI has TCTEUSMD (X'02) set if the application is in SEND mode. TCTERCVI has TCTEURCV (X'01) set if the application is in RECEIVE mode. Bit TCTESRAQ (X'80) in byte TCTEIRAQ indicates that read-ahead queuing is coded on the installed profile definition for this transaction.

The type-of-request bits in the TCA are set as follows

- TCATPOS1 TCATPIS (X'01) Signal requested.
  - TCATPFRE (X'03) Free TCTTE.
- TCATPOS2 TCATPORR (X'10) Receive requested.
  - TCATPOWR (X'01) Send requested.

Analysis:

Number	Label	Description
DFHZARQ		
1.	TCZAQW8	Attempting to receive when sync point or Free Session outstanding.
2.	TCZAQ2W	Attempting to send while in receive mode.
3.	ZARQNOPG	Issuing SIGNAL while in send mode.
DFHZISP		
4.	ZISPVTCK	Attempting to free session while sync point request is outstanding.

Module: DFHETL, DFHZARQ, DFHZISP

ATCW

Explanation: The system has been generated without an installed profile definition for an LU6.1 or APPC session.

System action: The transaction is abnormally terminated with a CICS transaction dump.

User response: Notify the system programmer of the error.

Module: DFHZSUP DFHMRXM DFH62XM

ATCX

Explanation: An error (INVALID, DISASTER, or unexpected EXCEPTION response) has occurred on a call to the storage manager (SM) domain. The domain that detected the original error provides an exception trace, a console message and, possibly, a system dump (depending on the options specified in the dump table).

An application program that issues terminal control requests after an ATCX abend may cause further problems.

System action: The task is abnormally terminated with a CICS transaction dump.

User response: See the related message produced by the domain that detected the original error.

Module: DFHBSMIR, DFHBSMPP, DFHBSM62, DFHBSS, DFHBSTB, DFHBSTB3, DFHBSTC, DFHBSTZ, DFHBSTZB, DFHBSTZO, DFHBSTZR, DFHBSTZV, DFHBSTZ1, DFHBSTZ2, DFHBSZZS, DFHAPRT, DFHCRP, DFHQRY, DFHZARL, DFHZARQ, DFHZERH, DFHZGET, DFHZFRE, DFHZNAC, DFHZRVS, DFHZSUP, DFHMRXM, DFH62XM DFHZTSP, DFHZXST

ATCY

Explanation: An error has occurred during the processing of an inbound function management header (FMH). Either a length error has been detected, for example, incomplete FMH received, or an invalid field has been detected within the FMH.

System action: The transaction is abnormally terminated with a CICS transaction dump.

User response: Notify the system programmer of the error. The problem is probably in the remote system that has sent the invalid FMH.

If the inbound FMH is from a system with an earlier release of CICS then you may need to set USEDFLTUSER. See the *CICS RACF Security Guide* for more information.

Module: DFHZARQ, DFHZSUP DFHMRXM DFH62XM

ATCZ

Explanation: An error (INVALID, DISASTER or EXCEPTION response) has occurred on the SET_NETWORK_IDENTIFIER call to the security domain as part of opening the CICS z/OS Communications Server ACB (for example, EXEC CICS SET VTAM® OPEN or CEMT SET VTAM OPEN). The domain that detected the original error provides an exception trace, a console message, and depending on the options specified in the dump table, a system dump.

System action: The task is abnormally terminated with a CICS transaction dump. The z/OS Communications Server ACB is closed.

User response: Use the dump, the trace and the console message to diagnose and correct the original error. Retry the command when the earlier error is resolved.

Module: DFHZSLS

ATD3

Explanation: The task has been purged, probably due to operator action such as a CEMT TASK PURGE command. The task might also have been purged as a result of CICS issuing a purge request.

System action: The transaction is abnormally terminated with a transaction dump.

User response: Use the transaction dump to determine why the task was purged. In particular, if the purge was operator initiated, the dump should be useful in determining why this task needed to be explicitly purged.

Module: DFHTDB

ATD9

Explanation: An incorrect response has been received from a call to the enqueue (NQ) domain during the processing of an ENQUEUE or a DEQUEUE request.

System action: The transaction is abnormally terminated with a transaction dump.

User response: Examine the dump and any exception trace entries for further information. Since this is only used for internal enqueues, this abend indicates an error in CICS. You need further assistance from IBM to resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHTDB

ATDC

Explanation: A transaction has issued an EXEC CICS READQ, WRITEQ or DELETEQ command against a logically recoverable transient data queue. The task was enqueued because another task currently owns the enqueue. While waiting to obtain the enqueue, the task was purged.

System action: The transaction is abnormally terminated with a CICS transaction dump.

User response: Investigate why the transaction was purged. It may have been purged via CEMT or automatically, by DTIMEOUT for example.

Module: DFHETD

ATDS

Explanation: A deadlock timeout condition has been detected. This condition may occur within a transaction that specifies DTIMOUT to be nonzero on its installed transaction definition. Deadlock timeout occurs when a transaction has been waiting or has been suspended for longer than the time specified in DTIMOUT.

The abend is driven by the internal CICS event, ENQUEUE.

Analysis: The transaction receiving the ATDS abend must have been suspended after issuing an ENQUEUE request.

System action: The transaction is abnormally terminated. A dump is not provided (even if a dump table entry has been set up).

User response: The transaction should be reexecuted, and the situation causing the SUSPEND to occur may clear itself.

The ATDS abend is to be expected occasionally, unless DTIMOUT is set to zero. No special action is necessary.

Module: DFHTDB

ATDY

Explanation: Transient data initialization has failed. A console message, DFH12*xx*, gives the reason for the failure.

System action: Transient data initialization terminates abnormally. This abend is always followed by an ATDZ abend for the failing function, and by message DFHSI1521 (if CICS abends unconditionally), or message DFHSI1522, which prompts you to reply GO or CANCEL.

User response: See the associated console message for information regarding the cause of the failure. Then respond to message DFHSI1522, if it has been issued.

Module: DFHTDRP

ATDZ

Explanation: A CICS function invoked by transient data initialization has failed. If the failing function is a transient data routine, this abend is preceded by a console message and an ATDY abend.

System action: Transient data initialization terminates abnormally. This abend is always followed by message DFHSI1521 (if CICS abends unconditionally), or message DFHSI1522, which asks you to reply GO or CANCEL.

User response: Refer to the associated console message for further information regarding the cause of the failure. Then respond to message DFHSI1522, if it has been issued.

Module: DFHTDRP DFHTDB

ATFE

Explanation: A FREEMAIN request to the storage manager has failed while CICS was executing a CEDA CHECK or CEDA INSTALL command.

System action: CICS abnormally terminates the task with a transaction dump.

User response: Use the dump and any associated messages issued by the storage manager to investigate the FREEMAIN failure.

Module: DFHTOUT1

ATGE

Explanation: A GETMAIN request to the storage manager has failed while CICS was executing a CEDA CHECK or CEDA INSTALL command.

System action: CICS abnormally terminates the task with a transaction dump.

User response: Use the dump and any associated messages issued by the storage manager to investigate the GETMAIN failure.

Module: DFHTOUT1

ATMA

Explanation: The task was purged before a GETMAIN request to the storage manager (SM) domain was able to complete successfully. The domain that first detected the purged condition will have provided an exception trace.

System action: The task is abnormally terminated with a CICS transaction dump.

User response: Investigate why the task was purged. It was purged either as a result of a purge from the master terminal operator via the CEMT transaction, or by the task being timed out after waiting for longer than the DTIMOUT (deadlock timeout) value specified for the transaction, or by CICS issuing a purge request.

If the master terminal operator purged the task, this may have been in an attempt to clear the system which appeared to be deadlocked for some reason.

If the task was timed out automatically as a result of the DTIMOUT value being exceeded, this may be due to insufficient main storage being available for the number of tasks in the system. If the amount of main storage cannot be increased, reduce the number of tasks in the system to avoid short-on-storage situations. Another possibility is to increase the value of the DTIMOUT option for the transaction.

When CICS purges a task, it does so to allow an operation to complete which would be held up by the presence of active tasks.

Module: DFHTMP

ATMB

Explanation: An error (INVALID, DISASTER or unexpected EXCEPTION response) has occurred on a call to the storage manager (SM) domain. The domain that detected the original error will have provided an exception trace, a console message and, possibly, a system dump (depending on the options specified in the dump table).

System action: The task is abnormally terminated with a CICS transaction dump.

User response: See the related message from the domain that detected the original error.

Module: DFHTMP

ATNA

Explanation: A terminal operator entered the transaction identification for NACP.

System action: The transaction is abnormally terminated with a CICS transaction dump.

User response: Do not reenter the NACP transaction identification (CSNE).

Module: DFHZNAC

ATNB

Explanation: The application program has issued a terminal control request for a terminal for which a previous request was terminated with an abend AZCT, because of a read timeout condition. The terminal control blocks are not in a fit state to allow a new request to be processed.

System action: The task is abnormally terminated with a CICS transaction dump.

User response: Change the application program to issue an abend when handling an abend AZCT.

Module: DFHZARQ

ATNC

Explanation: The application program has issued a terminal control request for a terminal for which a previous terminal control request was terminated with an abend ATCH, because the task was purged. The terminal control blocks are not in a fit state to allow a new request to be processed.

System action: The task is abnormally terminated with a CICS transaction dump.

User response: Change the application program to issue an abend when handling an abend ATCH.

Module: DFHZARQ

ATND

Explanation: The node error program (NEP) or NACP decides that a task should abnormally terminate, but the task is at a critical point of processing and immediate termination would put the integrity of the system at risk.

System action: The task is abnormally terminated with a CICS transaction dump when the task next requests any action against the terminal, or issues a sync point request involving the terminal.

User response: Check destination CSMT for possible further information. Use the dump to determine why the task was abnormally terminated by NEP.

Module: DFHZARQ, DFHZARL, DFHZSUP

ATNI

Explanation: There are two forms of this abend

z/OS Communications Server (VTAM) form
The node error program (NEP) or NACP decides the task should be abnormally terminated. DFHZNAC informs the request module to abend the transaction after the TC unit has completed.

Non-z/OS Communications Server (VTAM) form
The terminal error program (TEP) or terminal abnormal condition program (TACP) decides the task should be abnormally terminated. DFHTACP informs DFHZARQ to abend the transaction after the TC unit has completed.

System action: The task is abnormally terminated with a CICS transaction dump.

User response: This usually occurs when, due to a hardware failure, a network device rejects the data stream sent to it. The device itself may indicate an error code that will give a specific reason for the rejection. Check the CSMT log for further information.

This abend can also result from an error in a connected system such as a mirror transaction abend.

Abend ATNI can occur if a user application does not correctly handle an error return code from an external resource manager, such as DB2®.

For the NEP (z/OS Communications Server) form, run a z/OS Communications Server trace type=BUF for the logical unit and repeat the error.

For the TEP (non-z/OS Communications Server) form, run a link trace for the line or local channel address for the device.

Examine the data stream and error response to determine the cause of the error.

This type of error occurs if the definitions in the TCT do not match the attributes of the actual device.

Module: DFHZARL, DFHZARM, DFHZARQ, DFHZRAQ, DFHZSUP

ATOA

Explanation: You have attempted to invoke the CESC transaction with a terminal as principal facility. This is not allowed.

System action: CICS terminates the CESC transaction. No dump is produced.

User response: Ensure that the CESC transaction is not run against a terminal.

Module: DFHCESC

ATOB

Explanation: CICS has received an abnormal response from an EXEC CICS START TRANSACTION(CESC) request. This is caused by an internal error.

System action: CICS terminates the CESC transaction with a dump.

User response: You need further assistance from IBM to resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHCESC

ATOC

Explanation: CICS has received an abnormal response from a request to DFHZCUT to timeout a local userid table (LUIT). This is caused by an internal error in DFHZCUT.

System action: CICS terminates the CESC transaction with a dump.

User response: You need further assistance from IBM to resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHCESC

ATOD

Explanation: CICS has received an abnormal response from an EXEC CICS CANCEL TRANSACTION(CESC) request.

System action: CICS terminates the CESC transaction with a dump.

User response: You need further assistance from IBM to resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHCESC

ATOE

Explanation: CICS cannot determine the time at which an XRF takeover began.

System action: CICS terminates the CESC transaction with a dump.

User response: You need further assistance from IBM to resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHCESC

ATOF

Explanation: CICS has received an abnormal response from an EXEC CICS DELAY TRANSACTION(CESC) request.

System action: CICS terminates the CESC transaction with a dump.

User response: You need further assistance from IBM to resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHCESC

ATOG

Explanation: CICS has received an abnormal response from an EXEC CICS START TRANSACTION(CEGN) request. This is caused by an internal error.

System action: CICS terminates the CEGN transaction with a dump.

User response: You need further assistance from IBM to resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHCESC

ATOH

Explanation: An attempt has been made to invoke the CESC transaction with an invalid function code. The CESC transaction should only be invoked by CICS. Valid codes are TERM_TIMEOUT, XRF_TIMEOUT, and ENABLE_TIMEOUT.

The most likely cause of this error is an invalid attempt by a user to invoke CESC.

System action: CICS terminates the CESC transaction with a transaction dump.

User response: Determine how CESC was invoked. If it was invoked by CICS, you will need further assistance from IBM to resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHCESC

ATOT

Explanation: An error has occurred in the invocation of the CEGN transaction. CEGN has issued an EXEC CICS RETRIEVE command to retrieve the CEGN parameter list. Either the EXEC CICS RETRIEVE command has failed or it has succeeded but the retrieved data is invalid.

The most likely cause of this error is an invalid attempt by a user to invoke CEGN (for example, from a terminal or via an EXEC CICS START request).

System action: CICS terminates the CEGN transaction with a transaction dump.

User response: Determine how CEGN was invoked. If it was invoked by CICS, you will need further assistance from IBM to resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHCEGN

ATOU

Explanation: The CEGN transaction has attempted to issue an EXEC CICS RETURN but the command has failed.

System action: CICS terminates the transaction with a dump.

User response: You need further assistance from IBM to resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHCEGN

ATOV

Explanation: The CEGN transaction has attempted to issue an EXEC CICS GETMAIN, ASSIGN, or SEND but the command has failed.

System action: CICS terminates the transaction with a dump.

User response: You need further assistance from IBM to resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHCEGN

ATPA

Explanation: An error occurred when trying to estimate the length of a CICS message owned by the message domain.

System action: CICS terminates the transaction with a dump.

User response: You need further assistance from IBM to resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHTPR.

ATPB

Explanation: An error occurred when trying to retrieve a CICS message from the message domain.

System action: CICS terminates the transaction with a dump.

User response: You need further assistance from IBM to resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHTPR.

ATPC

Explanation: An error occurred when trying to estimate the length of a CICS message owned by the message domain.

System action: CICS terminates the transaction with a dump.

User response: You need further assistance from IBM to resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHTPQ.

ATPD

Explanation: An error occurred when trying to retrieve a CICS message from the message domain.

System action: CICS terminates the transaction with a dump.

User response: You need further assistance from IBM to resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHTPQ.

ATPE

Explanation: The task was purged before a GETMAIN request to the storage manager (SM) domain was able to complete successfully. The task that first detected the purged condition will have provided an exception trace.

System action: The task is abnormally terminated with a CICS transaction dump.

User response: Investigate why the task was purged. It was purged either as a result of a purge from the master terminal operator via the CEMT transaction, or by the task being timed out after waiting for longer than the DTIMOUT (deadlock timeout) value specified for the transaction, or by CICS issuing a purge request.

If the master terminal operator purged the task, this may have been in an attempt to clear the system which appeared to be deadlocked for some reason.

If the task was timed out automatically as a result of the DTIMOUT value being exceeded, this may be due to insufficient main storage being available for the number of tasks in the system. If the amount of main storage cannot be increased, reduce the number of tasks in the system to avoid short-on-storage situations. Another possibility is to increase the value of the DTIMOUT option for the transaction.

When CICS purges a task, it does so to allow an operation to complete which would be held up by the presence of active tasks.

Module: DFHTPQ, DFHTPR.

ATPF

Explanation: An error (INVALID, DISASTER, or unexpected EXCEPTION response) has occurred on a call to the storage manager (SM) domain. The domain that detected the original error will have provided an exception trace, a console message and, possibly, a system dump (depending on the options specified in the dump table).

System action: The task is abnormally terminated with a CICS transaction dump.

User response: See the related message produced by the domain that detected the original error.

Module: DFHTPQ, DFHTPR.

ATRA

Explanation: The field engineering global trap exit program, DFHTRAP, requested task abnormal termination. However, the currently active task was **not** a system task (for example, task dispatcher) and it was not about to abend.

System action: CICS disables the trap exit so that it will not be reentered, and terminates the currently active task abnormally.

User response: This is a user-requested task abend.

If you want to use the trap again, you must reactivate it as follows

CSFE DEBUG,TRAP=ON

You should use the global trap exit only in consultation with an IBM support representative.

Module: DFHTRP

ATSA

Explanation: The transaction CTSD was attached other than by an internal request from the TS domain.

System action: The transaction is abnormally terminated with a CICS transaction dump.

User response: Investigate why the CTSD transaction was started. This transaction is intended for CICS internal use only and should not be started by a user or from a terminal.

Module: DFHTSDQ

ATSB

Explanation: The transaction CTSD was attached with invalid parameters.

System action: The transaction is abnormally terminated with a CICS transaction dump.

User response: You need further assistance from IBM to resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHTSDQ

ATSC

Explanation: The task was canceled during execution of a temporary storage command.

System action: The transaction is abnormally terminated with a CICS transaction dump.

User response: Investigate the reason the task was canceled. The task has been canceled by the master terminal operator or automatically by either the deadlock timeout (DTIMEOUT) mechanism or the read timeout (RTIMOUT) mechanism.

Module: DFHEITS, DFHICP, DFHTSP

ATSD

Explanation: An INVALID or DISASTER response was received from a request to the Temporary Storage (TS) Domain.

System action: The transaction is terminated with a CICS transaction dump.

User response: There has been an earlier failure which lead to the response from TS. Investigate the earlier failure (which is accompanied by a console message and a system dump).

Module: DFHEITS, DFHICP, DFHTSP

ATSP

Explanation: A task has attempted to issue a WRITEQ TS request for a recoverable TS queue that has already been deleted in the same unit of work.

System action: The task is abnormally terminated with a CICS transaction dump.

User response: Correct the application to avoid issuing a WRITEQ TS request to a recoverable queue in a unit of work in which the queue has already been deleted.

Module: DFHEITS, DFHTSP

ATSQ

Explanation: A move of data to or from temporary storage has failed. The probable reason is that the size of the area being passed to CICS is inconsistent with the data length being used.

System action: The transaction is abnormally terminated with a CICS transaction dump.

User response: Identify the failing temporary storage request in the application and verify whether the length supplied on the request agrees with the data area size. Correct the application as appropriate. If the error occurs in DFHTSP and not in DFHETS, there is probably an internal logic error in temporary storage. In this case you will need further assistance from IBM. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHEITS

ATSU

Explanation: A DISASTER response caused by an IOERR was received from a request to the Temporary Storage (TS) Domain.

System action: The transaction is terminated with a CICS transaction dump.

User response: There has been a failure during the creation of a temporary storage record. The likelihood is that an IOERR occurred during the buffer preparation prior to the new record being added to it. It is recommended that the queue be deleted to avoid future references to the failed record.

Module: DFHEITS, DFHTSP, DFHICP

ATUF

Explanation: Insufficient space exists to build the parameter list for the DYNALLOC SVC.

System action: The task is abnormally terminated and a dump is taken.

User response: You need further assistance from IBM to resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFH99KO

AUxx abend codes

AUEL

Explanation: Internal logic error in CICS user exit management. This arises when an attempt to obtain or release the lock on the chain of EPB's fails unexpectedly.

System action: The task is abnormally terminated with a CICS transaction dump.

User response: You need further assistance from IBM to resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHUEM, DFHERM.

AUEP

Explanation: The task has been abnormally terminated because a return code of UERCPURG has been sent to the User Exit Handler by a User Exit Program. The value of UERCPURG is defined by the macro DFHUEXIT TYPE=EP, ID=*xxxxxxxx*, where *xxxxxxxx* is the exit point by which the exit program is enabled. This code does not apply to exit points in domains. The exit program returns this value when it has made a request for CICS services using the exit programming Interface (XPI) and when the XPI call has had a RESPONSE code of PURGED. Exit programs must not set UERCPURG return code under any other circumstance.

System action: The task is abnormally terminated with a CICS transaction dump.

User response: Refer to the *CICS Customization Guide* for the use of this return code.

Module: DFHUEH

AWxx abend codes

AW2A

Explanation: The DFHW2A Web2.0 alias program ran in a transaction that was not attached by CICS Web support. This is typically caused by attempting to issue the CW2A transaction directly from a terminal. This is not supported.

System action: The task is abnormally terminated with a CICS transaction dump.

User response: Do not attempt to run the CW2A transaction from a terminal.

Module: DFHW2W2

AW2B

Explanation: The CICS-supplied Atom service routines use the transaction work area to contain the responses that are returned to the Atom feed manager. The service routine has determined that the transaction

work area is too small to contain the required responses.

System action: The task is abnormally terminated with a CICS transaction dump.

User response: Copy the definition of transaction CW2A from the DFHWEB2 group. Increase the value of TWASIZE in the copied definition. The value must be at least five times the size of the maximum selector value that is returned by the service routine. When the resource being delivered is a CICS file, the selector length is determined by the key length of the file and the selector format specified on the cics:selector format attribute in the ATOMSERVICE configuration file. If the format attribute is "hexadecimal", the selector length is twice the key length, otherwise it is equal to the key length.

After modifying TWASIZE, install the new definition for CW2A.

Module: DFHW2FI, DFHW2TS

AWB2

Explanation: The CICS Web Interface has encountered an error while performing a transaction attach call for the alias task.

System action: Message DFHWB0727 describing the error is written to the CWBO transient data destination and a trace entry is made.

User response: See the associated message for guidance.

Module: DFHWBXN

AWB3

Explanation: CICS Web transaction, CWXN, has been illegally started either with data, or by a user at a terminal, with the wrong start code.

System action: The CICS Web Interface is not started.

User response: CICS Web Transaction Execution should only ever be started by Sockets Domain using DFHXMAT ATTACH, not by a user at a terminal or with data.

Module: DFHWBXN

AWB4

Explanation: The CICS Web Transaction Execution has received a bad response from an INQUIRE_TRANSACTION call to determine the start code for the CWXN transaction.

System action: The CICS Web Interface is not started.

User response: CICS Web Transaction Execution should only ever be started by Sockets Domain using DFHXMAT ATTACH, not by a user at a terminal or with data.

Module: DFHWBXN

AWB5

Explanation: The CICS Web Interface Server Controller could not continue with enable processing because the requested port is not available.

System action: An exception trace entry 4106 is written, and message DFHWB0131 is issued.

User response: Terminate the TCP/IP application which is using the requested port, and use CBWB to enable the feature again, or use CWBC to enable the CICS web Interface using a different port number.

Module: DFHWBM

AWB7

Explanation: The CICS Web Interface environment variables program was invoked, but the invoking transaction does not appear to be executing in a valid Web environment.

System action: The program writes an exception trace point 4623.

User response: Determine how the environment variables program was invoked. It is only meaningful to execute the program from a transaction that has been initiated from the Web, either through the CICS Web Interface or through the Business Logic Interface.

Module: DFHWBENV

AWB8

Explanation: The CICS Web Interface environment garbage collection task CWBG has been started directly from a terminal. This is not permitted.

System action: The transaction is abnormally terminated with a transaction dump.

User response: None.

Module: DFHWBGB

AWB9

Explanation: The CICS Web Interface connection manager failed due to lack of storage.

System action: A transaction dump is taken.

User response: You need further assistance from IBM to resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHWBC01

AWBA

Explanation: CICS Web Receive process has received an exception response from the Web Send Receive function, DFHWBSR, which could be one of the following errors

- An error in the Analyzer program
- No Analyzer program specified
- Unable to link to Analyzer program
- An Analyzer data length error
- An Analyzer header length error
- A codepage conversion error
- A storage error occurred
- An error that the connection has been closed
- A sockets receive error

System action: An error message is sent to the client and the CWBO transient data queue.

User response: Refer to any error messages accompanying this abend to determine why the abend has occurred.

Module: DFHWBXN

AWBB

Explanation: The incoming parameter list to the CICS Web Business Logic Interface program is not in the expected format. At present, the structure is assumed to be fixed and only a single version level is recognized.

System action: The CICS Web Business Logic Interface program is not executed.

User response: Ensure that the program receives a parameter list in the correct format.

Module: DFHWBBLI

AWBC

Explanation: No commarea was passed to a CICS Web Interface utility program. One of the utility programs supplied with the CICS Web Interface was executed, but the commarea that was passed was absent or was too short to contain valid information.

System action: The CICS Web Interface utility is not executed.

User response: Ensure that the program passes a commarea that is long enough to contain the expected parameters for the utility you are invoking.

Module: DFHWBENV, DFHWBTL

AWBE

Explanation: The CICS Web Interface detected that a Converter program attempted to change the address of the response buffer when it was not allowed to do so.

System action: The data in the new response buffer is not returned to the Web browser. A CICS transaction dump is taken.

User response: The Converter program is only allowed to replace the response buffer if the `converter_volatile` flag in the Converter parameter list is set to '1'. Check that your Converter program is not trying to return a new response buffer when this flag is set to '0'.

Module: DFHWBBLI

AWBF

Explanation: The CICS Web Interface alias detected an error in its initialization. The alias was not started by EXEC CICS START, or there was an error in the EXEC CICS RETRIEVE command for the start data.

System action: If there is an error in EXEC CICS RETRIEVE, message DFHWB0103 is written to the CWBO destination. A CICS transaction dump is taken.

User response: If the alias was not started by EXEC CICS START, check if it is being started from a terminal. This is not allowed. Otherwise, see the associated message for guidance.

Module: DFHWBA

AWBH

Explanation: The CICS Web Interface alias detected a logic error.

System action: An exception trace entry 454F is written. Message DFHWB0106 is written to the CWBO destination. A CICS transaction dump is taken.

User response: Use related diagnostics to determine the user response.

Module: DFHWBA

AWBI

Explanation: The CICS Web Interface alias received an unexpected response from EXEC CICS ASSIGN STARTCODE

System action: An exception trace entry 4544 is written. Message DFHWB0102 is written to the CWBO destination.

User response: You need further assistance from IBM to resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHWBA

AWBJ

Explanation: The CICS Web Interface alias received an unexpected response when it switched to the RP TCB.

System action: An exception trace entry 454E is written. Message DFHWB0105 is written to the CWBO destination. A transaction dump is taken.

User response: See the associated message for guidance.

Module: DFHWBA

AWBK

Explanation: The CICS Web Interface alias detected an abend in the converter or the CICS program servicing the request.

System action: An exception trace entry 4550 is written. Message DFHWB0108 is written to the CWBO destination.

User response: Use related diagnostics to determine the user response.

Module: DFHWBA

AWBL

Explanation: The CICS Web Interface alias detected an error in an EXEC CICS LINK command for program DFHWBBLI.

System action: An exception trace entry 4543 is written. Message DFHWB0101 is written to the CWBO destination. A transaction dump is taken.

User response: See the associated message for guidance.

Module: DFHWBA

AWBM

Explanation: The CICS Web Interface alias detected error response from the Business Logic Interface program DFHWBBLI.

System action: Message DFHWB0101 is written to the CWBO destination. A transaction dump is taken.

User response: See the associated message for guidance.

Module: DFHWBA

AWBN

Explanation: The CICS Web Interface alias detected an error in an EXEC CICS LINK command for program DFHWBEP.

System action: Message DFHWB0101 is written to the CWBO destination. A transaction dump is taken.

User response: See the associated message for guidance.

Module: DFHWBA

AWBO

Explanation: The CICS Web Interface alias program has received a non-HTTP request for an HTTP service or a SSL request has been sent to a non-SSL TCPIPSERVICE.

System action: Message DFHWB0114 is written to the CWBO transient data destination and a transaction dump is taken. An exception trace entry, 4567, is also written.

User response: See the associated message for guidance.

Module: DFHWBA

AWBP

Explanation: The CICS Web Interface alias has detected that the application has started sending a chunked response over the socket but has not terminated the sequence of web send chunk commands with a zero length chunk.

System action: A transaction dump is taken.

User response: Check the application to see why the terminating chunk was not sent.

Module: DFHWBA

AWBQ

Explanation: The CICS Web Business Logic Interface program detected an error in its parameter list.

System action: If the abend was issued from the Business Logic Interface program, DFHWBBLI, an exception trace entry '4581' is made and message DFHWB0119 is written to the CWBO transient data destination. If the abend was issued from the Web Interface program, DFHWBA1, an exception trace entry '4560' is written and message DFHWB0124 is sent to the CWBO destination. A transaction dump is taken.

User response: See the associated message for guidance.

Module: DFHWBA1, DFHWBBLI

AWBR

Explanation: The CICS Web Business Logic Interface program detected a logic error.

System action: If the abend was issued from the Business Logic Interface program, DFHWBBLI, an exception trace entry '4583' is made and message DFHWB0118 is written to the CWBO transient data destination. If the abend was issued from the Web

Interface program, DFHWBA1, an exception trace entry '4558' is written and message DFHWB0123 is sent to the CWBO destination.

User response: Use related diagnostics to determine the user response.

Module: DFHWBA1, DFHWBBLI

AWBU

Explanation: The CICS Web Interface connection manager could not get storage to send a message to the terminal.

System action: Processing continues.

User response: Use related diagnostics to determine the user response.

Module: DFHWBC01

AWBV

Explanation: The CICS Web Interface connection manager detected an error response on EXEC CICS DEQ.

System action: An exception trace entry 4345 is written. Message DFHWB1651 is written to the CWBO destination.

User response: You need further assistance from IBM to resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHWBC04

AWBX

Explanation: The CICS Web Interface connection manager was started against an invalid terminal type.

System action: An exception trace entry 4308 is written. Message DFHWB1522 is written to the CWBO destination.

User response: See the associated message for guidance.

Module: DFHWBC01

AWBZ

Explanation: The CICS Web Interface connection manager detected a NOTAUTH response to EXEC CICS EXTRACT EXIT.

System action: Message DFHWB1902 is written to the CWBO destination.

User response: See the associated message for guidance.

Module: DFHWBC0B

AWC1

Explanation: The CICS Web Interface 3270 bridge exit DFHWBLT could not establish a partnership with the Web terminal translation task which started the abended transction.

System action: An exception trace entry 4106 is written, and message DFHWB0131 is issued.

User response: Use related diagnostics to determine the user response.

Module: DFHWBLT

AWC2

Explanation: The CICS Web Interface 3270 bridge exit DFHWBLT was passed an invalid state token by attach processing.

System action: An exception trace entry 410C is written, and message DFHWB0130 is issued.

User response: Use related diagnostics to determine the user response. On a busy CICS region, the most likely cause is that the bridged transaction started after the state data had been discarded by Web 3270 garbage collection process.

Module: DFHWBLT

AWC3

Explanation: An application using the CICS Web 3270 function issued an unsupported combination of BMS and Terminal Control commands.

System action: An exception trace entry is written.

User response: Use related diagnostics to determine the user response.

Module: DFHWBLT

AWC4

Explanation: The CICS Web Interface 3270 bridge exit DFHWBLT has been reinvoked after returning an earlier error.

System action: An exception trace entry is written.

User response: Use related diagnostics to determine the user response.

Module: DFHWBLT

AWC5

Explanation: The CICS Web Interface 3270 bridge exit DFHWBLT abended during attach processing because it could not getmain a brxa user area.

System action: Message DFHWB0132 is issued, and an exception trace entry 410D is written.

User response: Use related diagnostics to determine the user response. The most likely cause of this abend is that CICS is having storage problems.

Module: DFHWBLT

AWC6

Explanation: The CICS Web Interface 3270 bridge exit DFHWBLT has detected an inconsistency in its request parameters or state data.

System action: Message DFHWB0133 is issued, and an exception trace entry is written.

User response: Use related diagnostics to determine the user response. The most likely cause of this abend is a storage overwrite.

Module: DFHWBLT

AWC7

Explanation: CICS detected an error during transaction initialization for a CICS Web alias transaction.

System action: Message DFHWB0360 is issued. No transaction dump is taken for this abend.

User response: Use related diagnostics to determine the user response. The most likely cause of this abend is an invalid userid being passed to CICS by the CICS Web Interface Analyzer user replaceable module. The userid is invalid if
- It is not defined in the external security manager
- It is revoked
- It is not authorized to access this CICS region

Module: DFHWBXM

AWC8

Explanation: CICS detected an error during transaction initialization for a CICS Web alias transaction.

System action: A transaction dump is taken for this abend.

User response: Use related diagnostics to determine the user response.

Module: DFHWBXM

AWC9

Explanation: CICS detected an error during transaction initialization for a CICS IPCONN acquire server-side transaction.

System action: A severe error message and system dump should have preceeded this abend.

User response: Use related diagnostics to determine the cause of the problem.

Module: DFHWBXM

AWKY

Explanation: A request to PURGE or WRITE a record using the global catalog during warm keypointing has failed.

System action: The task is abnormally terminated with a CICS transaction dump.

User response: Check for problems with the global or local catalog. See any DFHCC*nnnn* messages issued by the CICS catalog domain for further guidance.

Module: DFHWKP

AWSC

Explanation: A container which is required by a SOAP Feature pipeline stage was not found.

System action: The task is abnormally terminated with a CICS transaction dump.

User response: Check that user-written programs in earlier pipeline stages use the correct containers.

Module: DFHWSPMI,DFHWSPMO

AWSH

Explanation: A BTS activity that represents a stage in the SOAP Feature pipeline was found by the pipeline manager to be in an incorrect state.

System action: The task is abnormally terminated with a CICS transaction dump.

User response: Check that user-written programs in earlier pipeline stages use the correct BTS protocols.

Module: DFHWSPMI,DFHWSPMO

AWSL

Explanation: The SOAP Feature inbound pipeline manager could not link to the message adapter.

System action: The task is abnormally terminated with a CICS transaction dump.

User response: Check previous CICS messages to determine why the message adapter could not be linked to.

Module: DFHWSPMI

AWSN

Explanation: An EXEC CICS DEFINE COUNTER or EXEC CICS GET COUNTER command has returned a bad response.

System action: The task is abnormally terminated with a CICS transaction dump.

User response: Check the options table DFHNCOPT for possible errors. Look in the CICS job log for any AXMSCnnnn messages.

Module: DFHWSDSH

AWSP

Explanation: An application making a Web Service request passed a SOAPAction HTTP request header exceeding 256 bytes in length to the SOAP Feature pipeline.

System action: The task is abnormally terminated.

User response: Check that SOAPAction headers exceeding 256 bytes in length are not constructed by applications invoking Web Services.

Module: DFHWSRT

AWSQ

Explanation: This is normal behavior when a user stage of the pipeline abends.

System action: The task is abnormally terminated with a CICS transaction dump.

User response: Correct the user abend.

Module: DFHWSPMI

AWSR

Explanation: Either the TARGET-URI or the REQUEST-BODY container was not found when an application invoked the SOAP Feature pipeline to make a Web Service request.

System action: The task is abnormally terminated with a CICS transaction dump.

User response: Check that the application making the Web Service request supplies the required containers.

Module: DFHWSRT

AWSS

Explanation: The SOAP Feature service provider pipeline was requested to invoke the message adapter under a different transaction ID or user ID to the pipeline, but was unable to satisfy the request.

System action: The task is abnormally terminated.

User response: Check that transaction ID and user ID requested are valid, and that the user ID with which the pipeline is running is a surrogate of the requested user ID.

Module: DFHWSPMI

AWST

Explanation: The HTTP or WebSphere MQ transport stage of the SOAP Feature pipeline has encountered an input or output error.

System action: The task is abnormally terminated.

User response: Use CICS or WebSphere MQ messages to help you determine the cause of the problem. The error may be transient, in which case you can retry.

Module: DFHWSTOH

AWSU

Explanation: An invalid URI was passed to the SOAP Feature requester pipeline as the location of a Web Service provider.

System action: The task is abnormally terminated with a CICS transaction dump.

User response: Check that applications making Web Service requesting specify valid URIs for locations of Web Service providers.

Module: DFHWSRT

AWSY

Explanation: A problem was encountered in the DFHPIRT outbound router program. This usually implies that one of the containers used by DFHPIRT was not populated correctly.

System action: The task is abnormally terminated with a CICS transaction dump.

User response: Check that applications using DFHPIRT correctly populate the control containers required for pipeline processing.

Module: DFHPIRT

AXxx abend codes

AXF0

Explanation: A task has been purged due to lack of storage in a dynamic storage area (DSA).

System action: The task is abnormally terminated with a transaction dump.

User response: Try the transaction again later.

If the short-on-storage condition persists, consider increasing the size limit of the CICS DSAs. You can vary the DSAs dynamically using the DSALIM and EDSALIM parameters on the CEMT master terminal command.

Module: DFHXFP

AXF1

Explanation: The storage manager module, DFHSMGF, has returned a condition not expected by DFHXFP.

System action: The task is abnormally terminated with a transaction dump.

User response: Look for any related CICS messages and abends to determine if there has been a prior failure in CICS storage.

Module: DFHXFP

AXF2

Explanation: A task has been purged due to lack of storage in the DSA.

System action: The task is abnormally terminated with a transaction dump.

User response: Try the transaction again later.

If the short-on-storage condition persists, increase the size of the dynamic storage area using the DFHSIT DSA parameter.

Module: DFHXFP

AXF3

Explanation: The storage manager module DFHSMMC has returned a condition not expected by DFHXFP.

System action: The task is abnormally terminated with a transaction dump.

User response: Look for any related CICS messages and abends to determine if there has been a prior failure in CICS storage.

Module: DFHXFP

AXF4

Explanation: The task was purged before a GET_BUFFER request to the EXEC interface service routines module (DFHEISR), was able to complete successfully. The domain that first detected the purged condition provides an exception trace.

System action: The task is abnormally terminated with a CICS transaction dump.

User response: Investigate why the task was purged. It was purged either as a result of a purge from the master terminal operator via the CEMT transaction, or by the task being timed out after waiting for longer than the DTIMOUT (deadlock timeout) value specified for the transaction.

If the master terminal operator purged the task, this may have been in an attempt to clear the system which appeared to be deadlocked for some reason.

If the task was timed out automatically as a result of the DTIMOUT value being exceeded, this may be due to insufficient main storage being available for the number of tasks in the system. If the amount of main storage cannot be increased, reduce the number of tasks in the system to avoid short-on-storage situations. Another possibility is to increase the value of the DTIMOUT option for the transaction.

Module: DFHXFX

AXF5

Explanation: An error (INVALID, DISASTER, or unexpected EXCEPTION response) has occurred on a call to the EXEC interface service routines module(DFHEISR). The domain that detected the original error provides an exception trace, a console message, and possibly, a system dump (depending on the options specified the dump table).

System action: The task is abnormally terminated with a CICS transaction dump.

User response: See the related message from the domain that detected the original error.

Module: DFHXFX

AXF8

Explanation: A keyword such as TOKEN, CONSISTENT, REPEATABLE, UNCOMMITTED, or NOSUSPEND has been specified on a file control command for shipping to a system which does not support these functions.

System action: The task is abnormally terminated with a CICS transaction dump.

User response: Ensure that CICS in the file-owning

region is at the correct level.

Module: DFHXFX

AXFA

Explanation: The key length for a file control request that is to be sent to a remote system has to be obtained from the file control table, and has proved to be zero.

System action: The task is abnormally terminated with a CICS transaction dump.

User response: Ensure that the key length has been defined either in the remote file definition that is being used, or as a length option from the application program that is using it.

Module: DFHXFP

AXFB

Explanation: An unacceptable function management header (FMH) type has been found. It must be type 05, type 06, or type 43.

System action: The task is abnormally terminated with a CICS transaction dump.

User response: You need further assistance from IBM to resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHXFP

AXFC

Explanation: The request passed to the data transformation program is unknown to CICS. This abend can also occur in an MRO/IRC system as a result of an invalid EXEC CICS START request issued from the user's node error program (DFHZNEP).

System action: The task is abnormally terminated with a CICS transaction dump.

User response: See the *CICS Customization Guide* for restrictions on the use of EXEC CICS commands from within an NEP. If this is not the cause of the abend, you will need further assistance from IBM. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHXFP

AXFD

Explanation: The request that is passed to the data transformation program cannot be sent to a remote system; for example, a storage control request.

System action: The task is abnormally terminated with a CICS transaction dump.

User response: You need further assistance from IBM to resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHXFP

AXFE

Explanation: The transformation requested does not exist; for example, a DL/I schedule reply is not recognized by the outbound request processor in the data transformation program.

System action: The task is abnormally terminated with a CICS transaction dump.

User response: You need further assistance from IBM to resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHXFP

AXFF

Explanation: An unacceptable queue organization has been found in a queue model function management header (FMH).

System action: The task is abnormally terminated with a CICS transaction dump.

User response: You need further assistance from IBM to resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHXFP

AXFG

Explanation: An unacceptable argument number has been found in the data following a function management header (FMH) of type 43.

System action: The task is abnormally terminated with a CICS transaction dump.

User response: You need further assistance from IBM to resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHXFP

AXFH

Explanation: The argument number in the data following a function management header (FMH) of type 43 is acceptable, however, the argument itself is not expected.

System action: The task is abnormally terminated with a CICS transaction dump.

User response: You need further assistance from IBM to resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHXFP

AXFI

Explanation: The data length for a WRITEQ TD or READQ TD is zero. The abend can also occur when determining the length for file control requests.

System action: The task is abnormally terminated with a CICS transaction dump.

User response: Notify the system programmer.

Module: DFHXFP

AXFJ

Explanation: The error code held in UIBFCTR and UIBDLTR cannot be converted to an equivalent SNA error code.

System action: The task is abnormally terminated with a CICS transaction dump.

User response: You need further assistance from IBM to resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHXFP

AXFL

Explanation: Transformers 2 and 4 expect to receive a function management header (FMH), possibly followed by user data. A null chain of data has been received.

System action: The task is abnormally terminated with a CICS transaction dump.

User response: You need further assistance from IBM to resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHXFP

AXFM

Explanation: The ISCINVREQ condition has been raised. This can happen when the resource proves to be on yet another remote system, that is, when daisy-chaining is active.

System action: The task is abnormally terminated with a CICS transaction dump.

User response: Check that daisy-chaining of requests is intended and that all relevant intersystem links are in service.

Module: DFHXFP

AXFN

Explanation: The user domain module, DFHUSAD, has returned a condition not expected by DFHXFX.

System action: The task is abnormally terminated with a transaction dump.

User response: Look for any related CICS messages, abends or exception traces to determine if there has been a prior failure in user domain or security domain.

Module: DFHXFX

AXFO

Explanation: The check on the DS and DBA parameters in an attach function management header (FMH) has failed. This abend represents a user error resulting from a mismatch in the system definitions for both ends of an intersystem link.

System action: The task is abnormally terminated with a CICS transaction dump.

User response: Notify the system programmer.

Module: DFHXFP

AXFP

Explanation: CICS requires a second function management header (FMH) to follow an attach FMH. No second FMH was received.

System action: The task is abnormally terminated with a CICS transaction dump.

User response: Notify the system programmer.

Module: DFHXFP

AXFQ

Explanation: Either the function management header (FMH) just received is too short or too long to be a valid FMH, or an expected FMH is not present.

System action: The task is abnormally terminated with a CICS transaction dump.

User response: Check that the transaction profile parameter, INBFMH, is set to ALL. If communicating across a distributed program link, ensure that the requested function is supported on the partner system.

Module: DFHXFP

AXFR

Explanation: The CICS command level interface imposes a maximum length of 32␣767 for data. The length of the data just received exceeds this limit.

System action: The task is abnormally terminated with a CICS transaction dump.

User response: Notify the system programmer.

Module: DFHXFP

AXFS

Explanation: A PSB has been scheduled successfully. However, the maximum possible length of an I/O area exceeded 65␣535. This abend is likely to occur if path calls are used to retrieve large segments, and/or if FLS causes excessive expansion of segments.

System action: The task is abnormally terminated with a CICS transaction dump.

User response: Notify the system programmer.

Module: DFHXFP

AXFT

Explanation: An estimate of the size of the output I/O area has been made, and it exceeds the maximum possible size of 65␣535. While the estimated size may exceed the actual size, the difference will only be a few bytes.

This abend is likely to occur if a database calls, inserts, or replaces multiple segments, and many qualified segment search arguments are specified.

System action: The task is abnormally terminated with a CICS transaction dump.

User response: Notify the system programmer.

Module: DFHXFP

AXFU

Explanation: A two-level cursor is present in a function management header (FMH) relating to a linear (temporary storage) queue. However, these cursors are valid only for hierarchical queues that are not supported by CICS.

System action: The task is abnormally terminated with a CICS transaction dump.

User response: You need further assistance from IBM to resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHXFP

AXFV

Explanation: The user domain module, DFHUSAD, has returned a condition not expected by DFHXFX.

System action: The task is abnormally terminated with a transaction dump.

User response: Look for any related CICS messages, abends or exception traces to determine if there has been a prior failure in user domain or security domain.

Module: DFHXFX

AXFW

Explanation: An invalid length specification has been given in a CICS command-level request corresponding to one of the data variables.

The CICS-architected FMH is followed by zero or more self-describing data variables for each parameter specified.

System action: The task is abnormally terminated with a CICS transaction dump.

User response: Check for an invalid or zero length specified in a CICS command-level request, or for data truncation in a user-written node error program (NEP).

Module: DFHXFP

AXFX

Explanation: A function shipping request by an APPC link failed because

- the remote system does not support full syncpoint protocols, or
- the exchange log name sequence could have failed, resulting in a mismatch, or
- the request has not completed within the allocated time (10 seconds).

System action: CICS terminates the task abnormally.

User response: Check that the request was directed to the correct remote system, and that the remote system is set up to support full syncpoint protocols (synclevel 2).

Module: DFHXFP

AXFY

Explanation: An APPC conversation failure has occurred when an attach between CICS systems was issued.

System action: The task is abnormally terminated with a transaction dump.

User response: Check the connection to the remote CICS system and try to reestablish it.

Module: DFHXFP

AXGA

Explanation: Program DFHAPCR has returned an unexpected response. DFHAPCR performs the following functions:-

- Extracts the contents of all containers making up a channel and transmits them to a remote system.
- Recreates the channel and containers from inbound data received from a remote system.

DFHAPCR has either detected an error in inbound data or has received an unexpected response whilst extracting or recreating channel data.

System action: The task is abnormally terminated with a CICS transaction dump.

User response: Look for any related CICS messages and abends to determine if there has been a prior failure in Program Manager, which manages containers. Look for exception trace entries from Program Manager or DFHAPCR to determine the cause of the error.

Module: DFHXFX,DFHXFP

AXMA

Explanation: An error has occurred obtaining a lock within the transaction manager domain.

System action: The recovery routine of the module in control is invoked which issues message DFHXM0002 with a system dump. DFHXM0002 reports the module in control at the time of the error.

User response: See the description of message DFHXM0002 for further guidance.

Module: DFHXMAT, DFHXMBD, DFHXMCL, DFHXMDD, DFHXMFD, DFHXMLD, DFHXMQD, DFHXMST, DFHXMTA, DFHXMXD, DFHXMXE

AXMB

Explanation: An error has occurred releasing a lock within the transaction manager domain.

System action: The recovery routine of the module in control is invoked. This routine issues message DFHXM0002 with a system dump. DFHXM0002 reports the module in control at the time of the error.

User response: See the description of message DFHXM0002 for further guidance.

Module: DFHXMAT, DFHXMBD, DFHXMCL, DFHXMDD, DFHXMFD, DFHXMLD, DFHXMQD, DFHXMST, DFHXMTA, DFHXMXD, DFHXMXE

AXMC

Explanation: An severe error has occurred allocating a unique transaction number to a new transaction.

System action: The recovery routine of the module in control is invoked. This routine issues message DFHXM0002 with a system dump. DFHXM0002 reports the module in control at the time of the error.

User response: See the description of message DFHXM0002 for further guidance.

Module: DFHXMAT, DFHXMXE

AXMD

Explanation: An attempt has been made to run the CICS internal task CSXM as a user transaction.

System action: CICS terminates the task with a transaction dump.

User response: Investigate why the attempt was made to run CSXM as a user transaction.

Module: DFHXMAB

AXMU

Explanation: During transaction attach the userid that had been assigned to the transaction was found to be invalid.

System action: CICS terminates the task with a transaction dump.

User response: Determine how the invalid userid had been assigned to the transaction. It might have been output by a user-replaceable module.

Module: DFHXMAT

AXMY

Explanation: During transaction attach an unexpected error occurred obtaining transaction class membership.

System action: The transaction is no longer considered for class membership. It is then abnormally terminated with a CICS transaction dump.

User response: Use the dump to determine why the transaction failed to obtain membership of its transaction class.

Module: DFHXMAT

AXMZ

Explanation: A serious failure in another component has been detected by the transaction manager domain.

System action: The task in control is abnormally terminated with a transaction dump. Further diagnostics should have been taken by the failing component.

User response: Look for earlier messages identifying the source of the problem. Refer to the descriptions of these messages for further guidance.

Module: DFHXMTA

AXSA

Explanation: The CICS security control task could not complete because a necessary step failed. The task has done some essential recovery operations and abnormally terminated itself with code AXSA.

System action: CICS writes a transaction dump for the security control restart task.

CICS sends messages to the console, one to identify the error detected by the security control task, and, if the error occurred during initialization, one to say that security initialization or CEMT PERFORM SECURITY REBUILD has failed. A third message follows either to say that CICS has terminated abnormally with a dump, or to ask you to reply GO or CANCEL. Depending on the nature of the original error, you may see messages from some other system component (for example, an access method).

User response: First, if CICS has requested a response, you must reply. If you reply 'GO', CICS continues processing, but without support for the external security manager. CICS security still operates. If you reply 'CANCEL', CICS terminates abnormally with a dump.

Use the messages and dumps to find out the cause of the failure.

Module: DFHXSMN

AXSC

Explanation: The task was purged before a GETMAIN request to the storage manager (SM) domain was able to complete successfully. The task that first detected the purged condition will have provided an exception trace.

System action: The task is abnormally terminated with a CICS transaction dump.

User response: Investigate why the task was purged. It was purged either as a result of a purge from the master terminal operator via the CEMT transaction, or by the task being timed out after waiting for longer than the DTIMOUT (deadlock timeout) value specified for the transaction.

If the master terminal operator purged the task, this may have been in an attempt to clear the system which appeared to be deadlocked for some reason.

If the task was timed out automatically as a result of the DTIMOUT value being exceeded, this may be due to insufficient main storage being available for the number of tasks in the system. If the amount of main storage cannot be increased, reduce the number of tasks in the system to avoid short-on-storage situations. Another possibility is to increase the value of the DTIMOUT option for the transaction.

Module: DFHXSMN

AXSD

Explanation: An error (INVALID, DISASTER, or unexpected EXCEPTION response) has occurred on a call to the storage manager (SM) domain. The domain that detected the original error provides an exception trace, a console message and, possibly, a system dump (depending on the options specified in the dump table).

System action: The task is abnormally terminated with a CICS transaction dump.

User response: See the related message produced by the domain that detected the original error.

Module: DFHTCRP

AXTA

Explanation: The calculation of the length of data to be shipped has failed.

System action: The task is abnormally terminated with a CICS transaction dump.

User response: You need further assistance from IBM to resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHAPRX, DFHXTP

AXTB

Explanation: An attempt to obtain a buffer to ship data has failed.

System action: The task is abnormally terminated with a CICS transaction dump.

User response: You need further assistance from IBM to resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHAPRX, DFHXTP

AXTC

Explanation: An attempt to transform data ready for shipment has failed.

System action: The task is abnormally terminated with a CICS transaction dump.

User response: You need further assistance from IBM to resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHAPRX, DFHXTP

AXTD

Explanation: No buffer was received from a remote system.

System action: The task is abnormally terminated with a CICS transaction dump.

User response: You need further assistance from IBM to resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHAPRX, DFHXTP

AXTE

Explanation: Incorrect data was received from a remote system. The data was not long enough.

System action: The task is abnormally terminated with a CICS transaction dump.

User response: You need further assistance from IBM to resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHAPRX, DFHXTP

AXTF

Explanation: No relay process function management header (FMH) was received from the remote system.

System action: The task is abnormally terminated with a CICS transaction dump.

User response: You need further assistance from IBM to resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHAPRX, DFHXTP

AXTG

Explanation: Transformation of data received from remote system failed.

System action: The task is abnormally terminated with a CICS transaction dump.

User response: Check that the reason for failure of the transformation process was not incorrect definition of the remote terminal. In particular check that the user area length specified for the terminal is the same in both local and remote systems. If the terminal definitions are correct, you need further assistance to resolve this problem. You need further assistance from IBM to resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHAPRX, DFHXTP

AXTH

Explanation: An attempt to locate terminal identifier failed.

System action: The task is abnormally terminated with a CICS transaction dump.

User response: You need further assistance from IBM to resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHAPRX, DFHXTP

AXTI

Explanation: The major request byte LUCOPN0 of the DFHLUC parameter list specified to the transaction-routing transformer is invalid, or corresponds to a request that is not shipped to a remote system. The parameter list will be found in the dynamic storage of the transformer's caller and may be located using the output from auxiliary trace.

System action: The task is abnormally terminated with a transaction dump.

User response: You need further assistance from IBM to resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHAPRX, DFHXTP

AXTJ

Explanation: An unexpected combination of bit settings in the fields XTSSTAT and XTSTCOPC in the parameter list of the transaction-routing transformer was made.

System action: The task is abnormally terminated with a transaction dump.

User response: You need further assistance from IBM to resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHAPRX, DFHXTP

AXTK

Explanation: An APPC conversation failure occurred when an attach between CICS systems was issued.

System action: The task is abnormally terminated with a CICS transaction dump.

User response: Check the connection to the remote CICS system and try to reestablish it.

Module: DFHXTP

AXTL

Explanation: The processing of APPC mapped data requires the generation of an APPC attach FMH with default values. In particular, the sync level requested is defaulted to 2. However, the session that is to be used has been bound with a sync level of 1.

System action: The task is abnormally terminated with a CICS transaction dump.

User response: Check that

- The CONNECTION resource for the remote system has not been defined as single-session.
- The remote system is capable of supporting a sync level of 2.
- Exchange lognames has completed for the connection. You can use the command CEMT

INQUIRE CONNECTION to do this. See the *CICS Intercommunication Guide* for more details of the exchange lognames process.
- The correct sync level has been requested.

Module: DFHXTP

AXTM

Explanation: An attempt has been made to route a message-protected transaction over an APPC link bound at sync level 1. The attempt has failed because such transactions can be routed only over an APPC link that has been bound at sync level 2.

System action: The task is abnormally terminated with a CICS transaction dump.

User response: If the transaction is to be routed to CICS OS/2 (which is bound at synclevel 1), remove the message protection option. If the transaction is to be routed to another host system and message protection is required, the link must be redefined so that it can be bound at synclevel 2.

Module: DFHXTP

AXTN

Explanation: The transaction-routing transformer module detected that the application buffer chained off a TCTTE at offset TCTERCSA has a corrupted header. This is caused either by a CICS logic error or by a storage overwrite.

System action: The transaction is abnormally terminated with a CICS transaction dump.

User response: This is a CICS internal logic error. You need further assistance from IBM to resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHAPRX, DFHXTP

AXTO

Explanation: An exception response has been returned to the transaction-routing transformer module from the CICS security manager. Prior to the call to the CICS security manager, the transformer module detected that a shipped terminal definition had preset security. The transformer then invoked the CICS security manager in order to perform a preset security signon for the userid sent with the shipped terminal information. It is this preset security signon attempt which failed.

System action: The transaction routing request is terminated and a message is sent to the terminal owning region (TOR) to indicate that the transaction routing request has failed. The CICS security manager issues a DFHSNxxxx message to the transient data queue, CSCS.

User response: The most likely cause of this abend is that the terminal being shipped to the application owning region (AOR) has preset security with a userid which is not valid in the AOR. To confirm this, check the associated DFHSNxxxx message on the CSCS transient data queue in the AOR which gives the precise reason for the failure of the preset security signon request. This could be the result of an unauthorized transaction routing request.

Module: DFHAPRX, DFHXTP

AXTP

Explanation: An exception response has been returned to the transaction-routing transformer module from DFHCCNV FUNCTION(CONVERT_DS3270_FOR_SBCS). The module was called for a CICS client virtual terminal which requested conversion from ASCII to EBCDIC for data coming from the client. However, the conversion failed.

System action: The transaction routing request is terminated and a message is sent to the terminal owning region (TOR) to indicate that the transaction routing request has failed. The CICS security manager issues a DFHSN*nnnn* message to the transient data queue, CSCS.

User response: Examine the response and reason returned in the DFHCCNV commarea DFHC32. The client and server codepages will have already been validated so this may be a CICS error. You may need to contact IBM for further assistance. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHAPRX, DFHXTP

AXTQ

Explanation: An exception response has been returned to the transaction-routing transformer module from DFHCCNV FUNCTION(CONVERT_DS3270_FOR_SBCS). The module was called for a CICS client virtual terminal which requested conversion from EBCDIC to ASCII for data to be sent to the client. However the conversion failed.

System action: The transaction routing request is terminated and a message is sent to the terminal owning region (TOR) to indicate that the transaction routing request has failed. The CICS security manager issues a DFHSN*nnnn* message to the transient data queue, CSCS.

User response: Examine the response and reason returned in the DFHCCNV commarea DFHC32. The client and server codepages will have already been validated so this may be a CICS error. You may need to contact IBM for further assistance. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHAPRX, DFHXTP

AXTR

Explanation: An exception response has been returned to the transaction-routing transformer module from DFHPGLE FUNCTION(LOAD_EXEC) whilst trying to load EXEC program DFHCCNV.

System action: The transaction routing request is terminated and a message is sent to the terminal owning region (TOR) to indicate that the transaction routing request has failed. The CICS security manager issues a DFHSN*nnnn* message to the transient data queue, CSCS.

User response: Examine the response and reason returned from DFHPGLE to determine why CICS was unable to call DFHCCNV.

Module: DFHAPRX, DFHXTP

AXTS

Explanation: One of the following conditions has occured.

- A transaction running in an AOR has created a channel. The transaction has terminated by issuing EXEC CICS RETURN TRANSID CHANNEL to name the next transaction in the pseudo-conversation and pass the channel to it. However the TOR is not at a high enough CICS level to support channels.
- A transaction running in an AOR has created a channel. The transaction has terminated by issuing EXEC CICS RETURN TRANSID CHANNEL to name the next transaction in the pseudo-conversation and pass the channel to it. The channel is transmitted to the TOR and is held there until the next transaction in the pseudo-conversation starts. However, when the next transaction is initiated, it is found to reside in an AOR that is not at a high enough CICS level to support channels.

System action: The transaction routing request is terminated and a message is sent to the terminal owning region (TOR) to indicate that the transaction routing request has failed.

User response: If channels are passed between transactions in a pseudo-conversation, you must ensure that all TOR and AOR systems involved in passing the channel are at a high enough CICS level to support channels.

Module: DFHAPRX, DFHXTP

AXTU

Explanation: Program DFHAPCR has returned an unexpected response. DFHAPCR performs the following functions:-

- Extracts the contents of all containers making up a channel and transmits them to a remote system.
- Recreates the channel and containers from inbound data received from a remote system.

DFHAPCR has either detected an error in inbound data or has received an unexpected response whilst extracting or recreating channel data.

System action: The task is abnormally terminated with a CICS transaction dump.

User response: Look for any related CICS messages and abends to determine if there has been a prior failure in Program Manager, which manages containers. Look for exception trace entries from Program Manager or DFHAPCR to determine the cause of the error.

Module: DFHAPRX, DFHXTP

AZxx abend codes

AZAB

Explanation: DFHZARM has a SEND DATA request with a data length greater than 65␣528 bytes which is the maximum that it can process.

System action: The transaction is abnormally terminated with a CICS transaction dump.

User response: This is a CICS internal logic error. You need further assistance from IBM to resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHZARM

AZAD

Explanation: DFHZCN1 has been started from an unexpected system. The CCIN transaction can only be issued by a client.

System action: The transaction is abnormally terminated. Exception trace point AP3008 is written. Data1 holds the XMIQ start type.

User response: Issue the CCIN transaction only from a client.

Module: DFHZCN1

AZAE

Explanation: DFHZCN1 was started from a terminal facility, but not an LU6.2 session. The CCIN transaction may only be issued by a client.

System action: The transaction is abnormally terminated.

User response: Issue the CCIN transaction only from a client.

Module: DFHZCN1

AZAF

Explanation: DFHZCN1 was started for transaction CCIN. However either the environment is wrong or the client architecture has been violated. This abend is always issued in conjunction with a DFHZC32nn message which explains the problem in more detail.

System action: Exception trace point AP30xx is written. The transaction is abnormally terminated.

User response: Look for a DFHZC32nn message on the console or CSNE and look for exception trace points AP30xx. Use these to diagnose the problem.

Module: DFHZCN1

AZAG

Explanation: DFHZCT1 has been started from an unexpected system. The CTIN transaction can only be issued by a client.

System action: The transaction is abnormally terminated with a CICS transaction dump. Exception trace point AP302A is written. Data1 holds the XMIQ start type.

User response: Issue the CTIN transaction only from a client.

Module: DFHZCT1

AZAH

Explanation: DFHZCT1 was started from a terminal facility, but not an LU62 session. The CTIN transaction can only be issued by a client.

System action: The transaction is abnormally terminated with a CICS transaction dump. Exception trace point AP3032 is written. Data1 holds the principal facility address.

User response: Issue the CTIN transaction only from a client.

Module: DFHZCT1

AZAI

Explanation: DFHZCT1 was started for transaction CTIN. However either the environment is wrong or the client architecture has been violated. This abend is always issued in conjunction with a DFHZC32nn message which explains the problem in more detail.

System action: Exception trace point AP30xx is written. The transaction is abnormally terminated.

User response: Look for a DFHZC32nn message on the console or CSNE and look for exception trace points AP30xx. Use these to diagnose the problem.

Module: DFHZCT1

AZAJ

Explanation: DFHZCN1 was started for transaction CCIN. However, the CCIN transaction is being started on a surrogate, which means that it has been defined as a remote transaction. CCIN must be a local transaction and be run on a CICS region which is directly connected to a client.

System action: Exception trace point AP3041 is written. The transaction is abnormally terminated.

User response: Either use the default definitions for CCIN or ensure that it is defined as a local transaction.

Module: DFHZCN1

AZAK

Explanation: DFHZCT1 was started for transaction CTIN. However, the CTIN transaction is being started on a surrogate, which means that it has been defined as a remote transaction. CTIN must be a local transaction and be run on a CICS region which is directly connected to a client.

System action: Exception trace point AP3039 is written. The transaction is abnormally terminated.

User response: Either use the default definitions for CTIN or ensure that it is defined as a local transaction.

Module: DFHZCT1

AZCA

Explanation: An internal logic error has been detected during APPC mapped processing. The conversation state maintained by DFHZARL does not match that maintained jointly by DFHETL and DFHZARM.

The problem may also arise when CICS is assembling application data and receives end of chain before receiving all of the data that is expected.

System action: The task is abnormally terminated with a CICS transaction dump. CICS processing continues.

User response: You need further assistance from IBM to resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHZARM

AZCB

Explanation: CICS has received sense code X'088901*xx* during APPC mapped processing. This should be followed by an error data GDS (generalized data stream) variable.

CICS has attempted to receive the error data. However this attempt has failed because no data has been received or because the data received is not for an CICS ISSUE ERROR of the correct length.

CICS expects the error data to indicate that the other system does not recognize GDS ID X'12F2 (function management data).

System action: The task is abnormally terminated with a CICS transaction dump.

The erroneous GDS ID is returned to the remote system for further analysis there.

User response: Check for session failure and for abend by the transaction in the other system.

You need further assistance from IBM to resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHZARM

AZCC

Explanation: The failing transaction has sent function management data to a transaction running in a system that does not provide support for application function management data.

System action: The task is abnormally terminated with a CICS transaction dump.

User response: Check that the remote system can support application function management data.

Module: DFHZARM

AZCD

Explanation: A possible intersystem logic error has been detected during APPC mapped processing. The length of application data that is to be received (as determined from the LL fields and concatenation flags) does not match the length actually received. CICS determines the length of application data that is to be received from the LL fields and concatenation flags. However, CICS has not received all of the data that is expected.

This abend can be caused by a loss of data following the failure of a persistent sessions restart in a partner system. In this case, no logic error has occurred because any updates are backed out.

System action: The task is abnormally terminated with a CICS transaction dump.

User response: If this abend is not caused by the failure of a persistent sessions restart in a partner system, you will need further assistance from IBM. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHETL, DFHZARM

AZCE

Explanation: An intersystem error has been detected during APPC mapped processing. The length of application data that is to be received (as determined from the LL fields and concatenation flags) exceeds the CICS implementation limit of 32␣767, for receive and converse commands, or 65␣000 for CICS transaction routing or function shipping requests.

System action: The task is abnormally terminated with a CICS transaction dump.

User response: Reduce the amount of data that the transaction in the remote system is transmitting to CICS.

Module: DFHETL, DFHZARM

AZCF

Explanation: An internal logic error has been detected during APPC mapped processing. An invalid request has been passed to DFHZARL.

System action: The task is abnormally terminated with a CICS transaction dump.

User response: You need further assistance from IBM to resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHZARM

AZCG

Explanation: An internal logic error has been detected during APPC mapped processing. DFHZARM expects the TCTTE passed to have been defined as APPC, TCTEILUC (TCTELUC) set on, and TCTECVT set to TCTEMAPD (to indicate a mapped conversation).

System action: The task is abnormally terminated with a CICS transaction dump.

User response: You need further assistance from IBM to resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHZARM

AZCH

Explanation: Sense code X'0889*xxxx* has been received unexpectedly during the processing of APPC mapped data.

This represents a violation of the APPC architecture by the remote system.

System action: The task is abnormally terminated with a CICS transaction dump.

User response: You need further assistance from IBM to resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHETL, DFHZARM

AZCI

Explanation: The processing of APPC mapped data requires generation of an APPC attach function management header (FMH) with default values. In particular, the sync level requested is defaulted to 2. However, the session that is to be used has been bound with a sync level of 1.

System action: The task is abnormally terminated with a CICS transaction dump.

User response: Check that
- The CONNECTION resource for the remote system has not been defined as single-session.
- The remote system is capable of supporting a sync level of 2.
- Exchange lognames has completed for the connection. You can use the CEMT INQUIRE CONNECTION to do this. See the *CICS Intercommunication Guide* for details of the exchange lognames process.

Module: DFHETL, DFHZARM, DFHZARQ

AZCJ

Explanation: An APPC structured field with GDS ID X'12F1 (null data) has been sent to a remote system that does not support the receipt of these fields. The remote system has responded negatively and has terminated the conversation.

System action: The task is abnormally terminated with a CICS transaction dump.

User response: The problem is in the remote system. You need further assistance from IBM to resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHZARM

AZCK

Explanation: An internal logic error has been detected during error recovery for APPC mapped processing. The conversation was being switched to RECEIVE state by an internal CICS SEND INVITE, but the conversation had already been FREEd by the partner.

System action: The task is abnormally terminated with a CICS transaction dump. CICS processing continues.

User response: You need further assistance from IBM to resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHZARM

AZCL

Explanation: CICS has received sense code X'088901xx during APPC mapped processing. The generalized data stream (GDS) should contain a valid GDS identity in the error data but CICS does not recognize the value. The values recognized by CICS are

```
X'12F1'.null data
X'12F2'.function management data
X'12FF'.application data.
```

System action: The task is abnormally terminated with a CICS transaction dump.

User response: Check for session failure and for an abend by the transaction in the other system.

Module: DFHZARM

AZCM

Explanation: An error (INVALID, DISASTER, or unexpected EXCEPTION response) has occurred on a call to the storage manager (SM) domain. The domain that detected the original error provides an exception trace, a console message and, possibly, a system dump (depending on the options specified in the dump table).

System action: The task is abnormally terminated with a CICS transaction dump.

User response: See the related message produced by the domain that detected the original error.

Module: DFHZARM

AZCN

Explanation: The task has been purged before a GETMAIN request to the storage manager (SM) domain was able to complete successfully. The task that first detected the purged condition provides an exception trace.

System action: The task is abnormally terminated with a CICS transaction dump.

User response: Investigate why the task was purged.

It was purged either as a result of a purge from the master terminal operator via the CEMT transaction, or by the task being timed out after waiting for longer than the DTIMOUT (deadlock timeout) value specified for the transaction.

If the master terminal operator purged the task, this may have been in an attempt to clear the system which appeared to be deadlocked for some reason.

If the task was timed out automatically as a result of the DTIMOUT value being exceeded, this may be due to insufficient main storage being available for the number of tasks in the system. If the amount of main storage cannot be increased, reduce the number of tasks in the system to avoid short-on-storage situations. Another possibility is to increase the value of the DTIMOUT option for the transaction.

Module: DFHZARM

AZCO

Explanation: The z/OS Communications Server persistent sessions initialization transaction CGRP has been started directly from a terminal. This is not permitted. This transaction can only be started internally by CICS.

System action: The transaction is abnormally terminated with a transaction dump.

User response: None.

Module: DFHZCGRP

AZCP

Explanation: A logic error has been detected in ZCP. An allocation request for a starting task cannot be satisfied.

System action: The task is abnormally terminated with a CICS transaction dump.

User response: You need further assistance from IBM to resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHZSUP DFH62XM

AZCQ

Explanation: An error (INVALID, DISASTER or unexpected EXCEPTION response) has occurred on a call to the recovery manager (RM) domain to change the recovery status of an intercommunication session. The domain provides an exit trace, and possibly a console message and a system dump (depending on the options specified in the dump table).

System action: The task is abnormally terminated with a CICS transaction dump.

User response: This failure is either the result of a task purge, or it represents a CICS logic error and you will need assistance from IBM.

See the related diagnostic material produced by the recovery manager domain.

Module: DFHZSUP DFHMRXM DFH62XM

AZCR

Explanation: A logic or protocol error has been detected during processing of an APPC SYNCPOINT ROLLBACK request. An attempt has been made to restore the conversation state to what it was after completion of the last successful unit of work. This saved state does not match flows received from the partner.

The problem arises during rollback in one of the following situations

- The saved state is receive, and the partner sent change direction on the last flow, indicating that the partner expects CICS to be in send state
- The saved state is send, and the partner did not send the change-direction indicator on the last flow, indicating that the partner expects CICS to be in receive state.

System action: The task is abnormally terminated with a CICS transaction dump. Other processing continues.

User response: The problem can arise because of a failure in CICS, or a failure in the partner. To determine which is failing, analyze the flows at the last successful syncpoint. Try to determine the states the two LUs were in at this point. Look at the last syncpoint flow into CICS from the partner, before the abend. From this flow, calculate whether the change-direction indicator on the SPCMOD modifier byte is on. (See the *SNA Formats* manual for further information on the SPCMOD modifier byte.) The indicator must only be set when the saved CICS conversation state is send. If the last CICS state was send, and the indicator is on, CICS is at fault. Similarly, if the last CICS state was receive, and the indicator is off, CICS is at fault.

If the last CICS state was send and the indicator is off, or the last CICS state was receive, and the indicator is on, CICS has received a change-direction indicator when it was not expecting one. In this case, examine the partner for a logic error.

Module: DFHZARL

AZCT

Explanation: A terminal read-time-out condition has been detected. The transaction has been waiting for a terminal input message for an interval longer than specified in the RTIMOUT value for that transaction.

Coding RTIMOUT in the PROFILE entry causes the task to be abnormally terminated if the terminal does not send input within the specified time.

System action: The transaction is abnormally terminated. A dump is not provided unless the dump table entry for transaction dump code AZCT indicates that one should be taken.

User response: If a HANDLE ABEND command has been issued for this task, the read that was timed-out is still outstanding. In order to cancel this read, issue an ABEND command at the end of the user exit routine so that CICS can clean up the terminal's TCTTE. No further terminal control commands should be issued.

Module: DFHZARQ

AZCU

Explanation: The COVR transaction has been started directly from a terminal, or by a START command. This is not permitted. This transaction can only be started internally by CICS.

System action: The transaction is abnormally terminated. No transaction dump is taken.

User response: None.

Module: DFHZCOVR

AZCV

Explanation: A logic error has been detected in the COVR transaction while trying to connect to z/OS Communications Server.

System action: The task is abnormally terminated with a CICS transaction dump.

User response: You need further assistance from IBM to resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHZCOVR

AZCW

Explanation: An attempt has been made to run the CICS internal task CSTP as a user transaction.

System action: CICS terminates the task with a transaction dump.

User response: Investigate why the attempt was made to run CSTP as a user transaction.

Module: DFHZCSTP

AZI1

Explanation: An IRC data transmission request has been issued, but cannot be completed because the transmission protocol has been violated.

If the session is not used for distributed transaction processing, that is if it is used for function shipping or transaction routing, then the problem is caused by a CICS logic error.

If the session is used for distributed transaction processing, then the following are possible causes of the abend

- An invalid terminal control command, such as ISSUE SIGNAL, was issued
- A send request was issued but the session was not in send state, or a read request was issued but the session was not in receive state.

System action: The task is abnormally terminated with a CICS transaction dump.

User response: Determine the cause of the abend and if appropriate, correct the application. For further guidance, refer to the section on the EXEC Interface block (EIB) in the *CICS Intercommunication Guide*. The EIB describes the state of the session after a request has been issued.

Module: DFHZARQ

AZI2

Explanation: An IRC data transmission request has been issued but cannot be completed. Possible causes of the problem include

- The transaction running in the connected system has been purged, or
- The transaction running in the connected system has been timed out, or
- The abending transaction has attempted to SEND while in RECEIVE state, or
- The abending transaction has attempted to RECEIVE while in SEND state.

If the abend was caused by DFHIRP rejecting the transmission request, the dump will contain DFHIRP's return code in the field TCTEIRET for the TCTTE representing the failed IRC session. The address of this TCTTE is in field B of the trace entry representing the DFHTC data transmission request.

The meanings of the DFHIRP return codes are given in the copybook, DFHIRSDS.

System action: The task is abnormally terminated with a CICS transaction dump.

User response: If the cause of the error was a purge or a time-out, no further action is required.

If the error was caused by a condition such as an attempted SEND while in RECEIVE state or vice versa, analyze the dump and correct the protocol violation.

Module: DFHZARQ

AZI3

Explanation: A terminal control request issued by an application to a remotely-owned terminal failed because the conversation with the other system failed.

System action: The task is abnormally terminated

with a CICS transaction dump.

User response: You need further assistance from IBM to resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHZARQ

AZI4

Explanation: An IRC data transmission request has been issued, but cannot be completed because the other system has become unavailable for interregion communication.

System action: The task is abnormally terminated with a CICS transaction dump.

User response: Rerun the transaction when IRC is available.

Module: DFHZARQ

AZI5

Explanation: An IRC data transmission request has been issued, but the data sent by the connected system in response to the request violated IRC protocols.

System action: The task is abnormally terminated with a CICS transaction dump.

User response: You need further assistance from IBM to resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHZARQ

AZI6

Explanation: The transaction was connected to another transaction in another CICS system via an IRC link. This other transaction has abnormally terminated.

System action: The task is abnormally terminated with a CICS transaction dump.

User response: Correct the cause of the abend in the connected transaction.

Module: DFHZARQ

AZI7

Explanation: The transaction was processing an MRO request which involved waiting for a response from a connected subsystem. The 'wait' request was rejected by the CICS dispatcher.

System action: The transaction is abnormally terminated with a dump.

User response: You need further assistance from IBM to resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHZIS2

AZI8

Explanation: The error log data received with an ISSUE-ABEND flow on an IRC connection was not in the correct format.

System action: The task is abnormally terminated with a CICS transaction dump.

User response: You need further assistance from IBM to resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHZIS1

AZI9

Explanation: The transaction was processing an MRO request which involved waiting for a response from a connected subsystem. During the wait, the failing transaction was purged. The purge can only have been the result of operator action, such as a CEMT SET TASK PURGE.

System action: The task is abnormally terminated with a dump.

User response: Investigate the reason the transaction was purged.

Module: DFHZIS2

AZIA

Explanation: The transaction attempted to acquire or free storage during MRO processing. The response from the CICS storage manager (SM) domain indicated that the request was invalid.

System action: The task is abnormally terminated with a dump.

User response: You need further assistance from IBM to resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHZIS2

AZIB

Explanation: The transaction was purged whilst waiting for storage to receive MRO data from a connected subsystem. The purge may have been the result of operator action, such as CEMT SET TASK PURGE, or as the result of the waiting time exceeding the DTIMOUT value for the transaction.

System action: The task is abnormally terminated with a dump.

User response: If the condition is caused by time-out, examine the DTIMOUT value for the failing transaction and increase it if it is too low.

Module: DFHZIS2

AZIC

Explanation: An INVALID, DISASTER, or EXCEPTION condition has occurred on a call to the storage manager domain (DFHSMGFM) to FREEMAIN a CRB control block.

The domain that detected the original error provides an exception trace, a console message, and possibly a system dump.

System action: The task is abnormally terminated with a transaction dump.

User response: Please see the related message from the domain that detected the original error.

Module: DFHZIS2

AZID

Explanation: A PURGED condition has occurred on a call to the storage manager domain (DFHSMGFM) to FREEMAIN a CRB control block.

The domain that detected the original error provides an exception trace.

System action: The task is abnormally terminated with a transaction dump.

User response: Investigate why the task was purged. It was purged either as a result of a purge from the master terminal operator via the CEMT transaction, or by the task being timed out after waiting for longer than the DTIMOUT (deadlock timeout) value specified for the transaction.

If the master terminal operator purged the task, this may have been in an attempt to clear the system which appeared to be deadlocked for some reason.

If the task was timed out automatically as a result of the DTIMOUT value being exceeded, this may be due to insufficient main storage being available for the number of tasks in the system. If the amount of main storage cannot be increased, reduce the number of tasks in the system to avoid short-on-storage situations. Another possibility is to increase the value of the DTIMOUT option for the transaction.

Module: DFHZIS2

AZIE

Explanation: An interregion communication (IRC) ISSUE-ERROR or ISSUE-ABEND flow has been received in violation of IRC protocols. This can be caused by

- A CICS logic error. IRC protocols are not available to MRO distributed transaction processing applications. They are for CICS internal use only.
- A transaction abend on a connected system. This results in an FMH 7 flow over an LU6.2 connection and causes this abend to be issued.

System action: The task is abnormally terminated with a transaction dump.

User response: Check whether a mixture of mapped and unmapped conversations are being used as this can cause this abend. Check for any other reasons for transactions to be abending on the attached system.

If a CICS logic error is involved, you will need further assistance from IBM. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHZARQ

AZIF

Explanation: An error (INVALID, DISASTER or unexpected EXCEPTION response) has occurred on a call to the recovery manager (RM) domain to change the recovery status of an intercommunication session. The domain provides an exit trace, and possibly a console message and a system dump (depending on the options specified in the dump table).

This is either the result of a task purge, a CICS logic error, or of the inappropriate use of the indoubt test transaction, CIND. CIND should be activated only on the CICS system where the syncpoint processing was initiated. In particular, CIND should not be used on any of the CICS mirror transactions.

System action: The task is abnormally terminated with a CICS transaction dump.

User response: Determine whether CIND has been activated for a transaction that did not initiate the syncpoint processing. If CIND is not being used see the related diagnostic material produced by the recovery manager domain and determine the reason for the failure.

In the case of a CICS logic error, you need further assistance from IBM. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHZARQ

AZIG

Explanation: An MRO session read-time-out condition has been detected. The transaction has been waiting for an MRO session for an interval longer than specified in the RTIMOUT value for that transaction.

Coding RTIMOUT in the PROFILE entry causes the task to be abnormally terminated if the session does not respond within the specified time.

System action: The transaction is abnormally terminated. A dump is not provided unless the dump table entry for transaction dump code AZIG indicates that one should be taken.

User response: If a HANDLE ABEND command has been issued for this task, the read that was timed-out is still outstanding. In order to cancel this read, issue an

ABEND command at the end of the user exit routine so that CICS can clean up the terminal's TCTTE. No further terminal control commands should be issued.

Module: DFHZIS2

AZR2

Explanation: Module DFHZARRA is unable to acquire main memory for a new application buffer because the storage manager GETMAIN failed.

System action: The transaction is abnormally terminated with a CICS transaction dump.

User response: Use the trace to identify the failing return from the storage manager and analyze the reason for failure.

Module: DFHZARRA

AZR3

Explanation: During a GETMAIN request, the storage domain detected that the task has been purged.

System action: The transaction is abnormally terminated with a CICS transaction dump.

User response: Use the trace to investigate why the task was purged. Check if the master terminal operator was responsible.

Module: DFHZARRA

AZR4

Explanation: An unexpected response has been received from a dispatcher domain call.

System action: The transaction is abnormally terminated with a transaction dump.

User response: You need further assistance from IBM to resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHZARER

AZR5

Explanation: An unexpected response has been received from a dispatcher domain call.

System action: The transaction is abnormally terminated with a transaction dump.

User response: You need further assistance from IBM to resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHZARR1

AZR6

Explanation: An exception condition was raised as the result of a request from the APPC communications routine DFHZARL to the CICS recovery manager domain. This is either caused by a CICS logic error or by the inappropriate use of the indoubt test transaction, CIND. CIND should be activated only on the CICS system where the syncpoint processing was initiated. In particular, CIND should not be used on any of the CICS mirror transactions.

System action: The transaction is abnormally terminated with a transaction dump.

User response: Determine whether CIND has been activated for a transaction that did not initiate the syncpoint processing. If CIND is not being used, you will need further assistance from IBM to resolve the problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHZARER

AZRA

Explanation: DFHZARRC detected that the address of an FMH in the APPC was not in the receive buffer. The cause could either be a storage overwrite or a CICS internal logic error.

System action: The transaction is abnormally terminated with a CICS transaction dump.

User response: If this problem is reproducible, a level 1 and 2 trace of the TC component would aid problem determination. Check the TCTTE in the transaction dump for printable characters or other signs of a storage violation error.

Module: DFHZARRC

AZRB

Explanation: Module DFHZARR0 was called with an invalid first parameter. The first parameter should be the code of the function to be performed. This is a CICS logic error.

System action: The transaction is abnormally terminated with a CICS transaction dump.

User response: If this problem is reproducible, then a level 1 and 2 trace of the TC component would aid problem determination. You need further assistance from IBM to resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHZARR0

AZRD

Explanation: The logical and physical APPC receive buffers have become out of step. This problem is caused either by a storage overwrite or by a CICS internal logic error.

System action: The transaction is abnormally terminated with a CICS transaction dump.

User response: If this problem is reproducible, then a level 1 and 2 trace of the TC component would aid problem determination. Check the TCTTE in the transaction dump for printable characters or other signs of a storage violation error.

Module: DFHZARR0

AZRE

Explanation: The logical APPC receive buffer (addressed by TCTERBLA) starts before or after the physical receive buffer (addressed by TCTERBLA). This is not valid as the logical receive buffer is the part of the physical receive buffer that is yet to be processed. This problem could be caused either by a storage overwrite or by a CICS internal logic error.

System action: The transaction is abnormally terminated with a CICS transaction dump.

User response: If this problem is reproducible then a level 1 and 2 trace of the TC component would aid problem determination. Check the TCTTE in the transaction dump for printable characters or other signs of a storage violation error.

Module: DFHZARR0

AZRF

Explanation: The DFHZUSR state machine has returned an invalid state error at a point where it should not be possible. This is a CICS internal logic error.

System action: The transaction is abnormally terminated with a CICS transaction dump.

User response: If this problem is reproducible, then a level 1 and 2 trace of the TC component would aid problem determination. You need further assistance from IBM to resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHZARRF

AZRG

Explanation: The DFHZUSR state machine has returned an invalid state error at a point where it should not be possible. This is a CICS internal logic error.

System action: The transaction is abnormally terminated with a CICS transaction dump.

User response: If this problem is reproducible, then a level 1 and 2 trace of the TC component would aid problem determination. You need further assistance from IBM to resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHZARR

AZRH

Explanation: The DFHZARR state variable RECEIVE_TYPE, used to control receive processing, has been set to an invalid value. The only other module that has access to this variable is DFHZARRF. This is a CICS internal logic error.

System action: The transaction is abnormally terminated with a CICS transaction dump.

User response: If this problem is reproducible, then a level 1 and 2 trace of the TC component would aid problem determination. You need further assistance from IBM to resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHZARR

AZRI

Explanation: One of the parameters passed to DFHZARR1. was invalid. This is a CICS internal logic error.

System action: The transaction is abnormally terminated with a CICS transaction dump.

User response: If this problem is reproducible, then a level 1 and 2 trace of the TC component would aid problem determination. You need further assistance from IBM to resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHZARR1

AZRJ

Explanation: The length of a record that DFHZARR0 has been requested to remove from the APPC receive buffer, is longer than the buffer itself. This problem could be caused either by a storage overwrite or by a CICS internal logic error.

System action: The transaction is abnormally terminated with a CICS transaction dump.

User response: If this problem is reproducible, a level 1 and 2 trace of the TC component would aid problem determination. Check the TCTTE in the transaction

dump for printable characters or other signs of a storage violation error.

Module: DFHZARR0

AZRK

Explanation: The DFHLUC parameter list passed back from DFHZERH to DFHZARRF contained an invalid combination of LUCCIERR, LUCCIFRE, and LUCCIRBK fields. This is a CICS internal logic error.

System action: The transaction is abnormally terminated with a CICS transaction dump.

User response: If this problem is reproducible, a level 1 and 2 trace of the TC component would aid problem determination. You need further assistance from IBM to resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHZARRF

AZRL

Explanation: Module DFHZARRF was called with an invalid first parameter. The first parameter should be the code of the function to be performed. This is a CICS internal logic error.

System action: The transaction is abnormally terminated with a CICS transaction dump.

User response: If this problem is reproducible, a level 1 and 2 trace of the TC component would aid problem determination. You need further assistance from IBM to resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHZARRF

AZRM

Explanation: Module DFHZARR called one of its own internal routines at the wrong time. This is a CICS internal logic error.

System action: The transaction is abnormally terminated with a CICS transaction dump.

User response: If this problem is reproducible, a level 1 and 2 trace of the TC component would aid problem determination. You need further assistance from IBM to resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHZARR

AZRN

Explanation: The DFHLUC parameter list passed back from DFHZERH to DFHZARRF did not have LUCCIERR set on. This is a CICS internal logic error.

System action: The transaction is abnormally terminated with a CICS transaction dump.

User response: If this problem is reproducible, a level 1 and 2 trace of the TC component would aid problem determination. You need further assistance from IBM to resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHZARRF

AZRO

Explanation: Module DFHZARER was called with an invalid first parameter. The first parameter should be the code of the function to be performed. This is a CICS internal logic error.

System action: The transaction is abnormally terminated with a CICS transaction dump.

User response: If this problem is reproducible, a level 1 and 2 trace of the TC component would aid problem determination. You need further assistance from IBM to resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHZARER

AZRP

Explanation: Module DFHZARER detected an invalid response from DFHZNAC. This is a CICS internal logic error.

System action: The transaction is abnormally terminated with a CICS transaction dump.

User response: If this problem is reproducible, a level 1 and 2 trace of the TC component would aid problem determination. You need further assistance from IBM to resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHZARER

AZRQ

Explanation: Module DFHZARRA was called with an invalid parameter. This is a CICS internal logic error.

System action: The transaction is abnormally terminated with a CICS transaction dump.

User response: If this problem is reproducible, a level 1 and 2 trace of the TC component would aid problem determination. You need further assistance from IBM to resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHZARRA

AZRR

Explanation: Module DFHZARRA detected that the application buffer chained off of a TCTTE at offset TCTERCSA had a corrupted header. This is caused either by a CICS logic error or by a storage overwrite.

The exception trace point that accompanies this abend code gives the TCTTE address.

System action: The transaction is abnormally terminated with a CICS transaction dump.

User response: If this problem is reproducible, a level 1 and 2 trace of the TC component would aid problem determination. Check the TCTTE in the transaction dump for printable characters or other signs of a storage violation error.

Module: DFHZARRA

AZRS

Explanation: Module DFHZARRA is unable to acquire main memory for a new application buffer into which it is supposed to copy some data. This is because the DFHLUC receive request is SUBTYPE=LLID, SET=YES and DFHZARRA does not know the length to acquire on the GETMAIN. DFHZARRA requires the length of the record currently being received, but it has been set to 0 in error. This is a CICS logic error. The exception trace point that accompanies this abend code gives the TCTTE address.

System action: The transaction is abnormally terminated with a CICS transaction dump.

User response: If this problem is reproducible, a level 1 and 2 trace of the TC component would aid problem determination. You need further assistance from IBM to resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHZARRA

AZRT

Explanation: Module DFHZARRA has detected that the application buffer, into which it is supposed to copy some data, is invalid. This is either because the address of the buffer is zero or because its length is less than that of the data to be copied into it. This is a CICS logic error. The exception trace point that accompanies this abend code gives the buffer address and length plus the data address and length.

System action: The transaction is abnormally terminated with a CICS transaction dump.

User response: If this problem is reproducible, a level 1 and 2 trace of the TC component would aid problem determination. You need further assistance from IBM to resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHZARRA

AZRU

Explanation: Module DFHZARRF detected an unexpected response from DFHZARR0. This is a CICS logic error. The exception trace point that accompanies this abend code gives the invalid response code.

System action: The transaction is abnormally terminated with a CICS transaction dump.

User response: If this problem is reproducible, then a level 1 and 2 trace of the TC component would aid problem determination. You need further assistance from IBM to resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHZARRF

AZRV

Explanation: Module DFHZARR1 detected an unexpected response from DFHZARR0. This is a CICS logic error. The exception trace point that accompanies this abend code gives the invalid response code.

System action: The transaction is abnormally terminated with a CICS transaction dump.

User response: If this problem is reproducible, a level 1 and 2 trace of the TC component would aid problem determination. You need further assistance from IBM to resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: One of the parameters passed to DFHZARR1

AZRW

Explanation: Module DFHZARRA detected a negative record length in the TCTTE (field TCTELLC). This is caused either by a CICS logic error or by a storage overwrite. The exception trace point that accompanies this abend code gives the TCTTE address and the value of TCTELLC.

System action: The transaction is abnormally terminated with a CICS transaction dump.

User response: If this problem is reproducible, a level 1 and 2 trace of the TC component would aid problem determination. Check the TCTTE in the transaction dump for printable characters or other signs of a storage violation error.

Module: DFHZARRA

AZRY

Explanation: Module DFHZARR detected an unexpected response from DFHZARRC. This is a CICS logic error. The exception trace point that accompanies this abend code gives the invalid response code.

System action: The transaction is abnormally

terminated with a CICS transaction dump.

User response: If this problem is reproducible, a level 1 and 2 trace of the TC component would aid problem determination. You need further assistance from IBM to resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHZARR

AZRZ

Explanation: Module DFHZARR detected an unexpected response from an internal subroutine. This is a CICS logic error. The exception trace point that accompanies this abend code gives the invalid response code.

System action: The transaction is abnormally terminated with a CICS transaction dump.

User response: If this problem is reproducible, a level 1 and 2 trace of the TC component would aid problem determination. You need further assistance from IBM to resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHZARR

AZS0

Explanation: An invalid request was passed via the DFHZSTAM macro to the processing DFHZSTAP program. This is a CICS internal logic error.

System action: The transaction is abnormally terminated with a CICS transaction dump.

User response: You need further assistance from IBM to resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHZSTAP

AZS1

Explanation: No TCTTE pointer was passed via the DFHZSTAM macro to the processing DFHZ program. This is a CICS internal logic error.

System action: The transaction is abnormally terminated with a CICS transaction dump.

User response: You need further assistance from IBM to resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHZSTAP

AZS2

Explanation: The TCTTE passed via the DFHZSTAM macro to the processing DFHZSTAP program does not relate to an MRO or an APPC Conversation. This is a CICS internal logic error.

System action: The transaction is abnormally terminated with a CICS transaction dump.

User response: You need further assistance from IBM to resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHZSTAP

AZS3

Explanation: The TCTTE passed via the DFHZSTAM macro to the processing DFHZSTAP program for an APPC Conversation, but the LUC Extension Control Block was not located. This is a CICS internal logic error.

System action: The transaction is abnormally terminated with a CICS transaction dump.

User response: You need further assistance from IBM to resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHZSTAP

AZS4

Explanation: While processing a DFHZSTAM request in DFHZSTAP, the DFHZUSRM LUC State Machine was found to have an invalid setting. This is a CICS internal logic error.

System action: The transaction is abnormally terminated with a CICS transaction dump.

User response: You need further assistance from IBM to resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHZSTAP

AZS5

Explanation: Whilst processing a DFHZSTAM request in DFHZSTAP, the Internal State number was found to have an invalid setting. This is a CICS internal logic error.

System action: The transaction is abnormally terminated with a CICS transaction dump.

User response: You need further assistance from IBM to resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHZSTAP

AZS6

Explanation: Whilst processing a DFHZSTAM request in DFHZSTAP, the Internal State number was found to have an invalid setting. This is a CICS internal logic error.

System action: The transaction is abnormally

terminated with a CICS transaction dump.

User response: You need further assistance from IBM to resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHZSTAP

AZT1

Explanation: The task has been attached improperly in the application-owning region when transaction routing.

System action: CICS abnormally terminates the transaction with a transaction dump.

User response: The conversation with the routing system should be an MRO session or an LU type 6.2 conversation. Ensure that the transaction is being attached by the CICS relay program in the connected system and not by a user program.

If the transaction is being attached by the CICS relay program in the connected system, you need further assistance to resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHZTSP

AZT3

Explanation: The task is being routed back to the region from where it came.

System action: CICS abnormally terminates the transaction with a transaction dump.

User response: Correct the transaction definition.

Module: DFHZTSP

AZT6

Explanation: The task in the application-owning region has received a ROLLBACK request from the terminal-owning region, but the conversation is continuing. The terminal-owning region has violated the transaction routing protocol.

System action: CICS abnormally terminates the transaction with a transaction dump.

User response: You need further assistance from IBM to resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHZTSP

AZT7

Explanation: A session terminal control table (TCT) entry for a remotely owned APPC terminal or connection could not be added to the TCT.

System action: The task is abnormally terminated with a CICS transaction dump.

User response: You need further assistance from IBM to resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHZTSP

AZT8

Explanation: A session terminal control table (TCT) entry for a remotely owned APPC terminal or connection could not be deleted from the TCT.

System action: The task is abnormally terminated with a CICS transaction dump.

User response: You need further assistance from IBM to resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHZTSP

AZT9

Explanation: A session terminal control table (TCT) entry for a remotely owned APPC terminal or connection could not be deleted from the TCT because it is locked by another task.

System action: The task is abnormally terminated with a CICS transaction dump.

User response: The other task may be transitory in nature, and if so, another attempt will succeed.

Module: DFHZTSP

AZTA

Explanation: The task does not own a terminal as its principal facility.

System action: The task is abnormally terminated with a CICS transaction dump.

User response: You need further assistance from IBM to resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHZTSP, DFHAPRR

AZTB

Explanation: An attempt to install or delete a remote terminal in this CICS system has failed. This may be because CATA was trying to install a local terminal at the same time as CITS was installing a remote terminal with the same termid. In this situation CICS gives priority to the locally installed terminal (CATA). This abend can also occur if the CITS/CDTS/CMTS/CFTS transactions are not available (that is , if the transactions have not been installed).

System action: DFHZTSP is abnormally terminated with a CICS transaction dump.

User response: If there was an abend AZI6/AZTS abend in the TOR then retry the request after the locally installed terminal with the same TERMID has logged off. Otherwise, verify that the listed transactions exist and have been installed. If the failure persists then you need further assistance to resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHZTSP

AZTC

Explanation: An attempt to install or delete a remote terminal in this system has failed. This is because a short-on-storage (SOS) condition has caused the failure of a GETMAIN for the attach of CITS, CDTS, or CFTS.

System action: The transaction is abnormally terminated with a CICS transaction dump.

User response: Investigate the reason for the SOS condition. See the *CICS Problem Determination Guide* for guidance on dealing with the SOS condition.

Retry the transaction later.

Module: DFHZTSP

AZTE

Explanation: An attempt has been made to run a transaction with EDF enabled, using an IPIC connection. IPIC does not support sending EDF information.

System action: The task is abnormally ended with a CICS transaction dump.

User response: You can do one of the following:

- Enable CEDX for the transaction on the remote region.
- Release the IPIC connection and run the transaction with EDF enabled using another connection type.

Module: DFHAPRT

AZTF

Explanation: DFHZTSP tried to GETMAIN or FREEMAIN a TCTTE whose length (TCTTETEL) is longer than the largest TCTTE SUBPOOL and is therefore invalid. This implies a storage violation or a CICS internal logic error.

System action: The transaction is abnormally terminated with a CICS transaction dump.

User response: Use the transaction dump to identify the TCTTE in error. First, check whether this is a storage overwrite. If so, check in your statistics to see if you are getting a number of storage violations caused by the same transaction. If this is the case, then a user-supplied application is probably causing the problem.

If it is not a storage violation problem, or if there is a random storage violation, there might be an error in CICS. In this case, you need further assistance to resolve the problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHZTSP

AZTG

Explanation: An attempt has been made to attach a task on a remotely-owned terminal without an intersystem TCTTE as its principal facility.

System action: The task is abnormally terminated with a CICS transaction dump.

User response: You need further assistance from IBM to resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHZTSP

AZTH

Explanation: An error response was received from the remote terminal control macro.

System action: The task is abnormally terminated with a CICS transaction dump.

User response: You need further assistance from IBM to resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHZTSP

AZTI

Explanation: An attempt has been made to attach a task on a remotely-owned terminal, but the terminal is not defined in this system as a remotely-owned terminal.

This may occur after an AZVK abend when CICS attempts to delete the surrogate TCTTE, but there is still a transaction running against it.

Alternatively, another task holds a lock on this terminal.

System action: The task is abnormally terminated with a CICS transaction dump.

User response: Check the terminal control table definitions in the systems involved. If the definitions are correct, check that no other tasks have locks held on the terminal (CECI, for example).

Check to see if an AZVK abend occurred earlier for this terminal and determine if the link session timing out was the original cause. All should be well once the long running transaction finishes.

Module: DFHZTSP

AZTL

Explanation: An attempt has been made to attach a task to a remotely-owned terminal that cannot be used to run this transaction.

System action: The task is abnormally terminated with a CICS transaction dump.

User response: Inform the system programmer. Check the terminal control table definitions in the systems involved.

Module: DFHZTSP

AZTM

Explanation: The data received from the remote system does not contain an FMH (function management header).

System action: The task is abnormally terminated with a CICS transaction dump.

User response: You need further assistance from IBM to resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHZTSP

AZTN

Explanation: Conversation with a remote system has been unexpectedly terminated.

System action: The task is abnormally terminated with a CICS transaction dump.

User response: You need further assistance from IBM to resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHZTSP

AZTO

Explanation: The TCTTE ownership chain is in error.

System action: The task is abnormally terminated with a CICS transaction dump.

User response: You need further assistance from IBM to resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHZTSP

AZTP

Explanation: A BMS TYPE=STORE request issued on behalf of a remote transaction failed.

System action: The task abnormally terminates with a CICS transaction dump.

User response: Inform the system programmer. Check that the required BMS support has been generated.

Module: DFHZTSP

AZTQ

Explanation: Invalid BMS data received from remote system.

System action: The task is abnormally terminated with a CICS transaction dump.

User response: You need further assistance from IBM to resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHZTSP

AZTR

Explanation: A BMS TYPE=PAGEOUT request issued on behalf of a remote system failed.

System action: The task is abnormally terminated with a CICS transaction dump.

User response: Ensure that the required BMS support has been generated.

Module: DFHZTSP

AZTS

Explanation: The conversation with the remote system failed.

System action: The task is abnormally terminated with a CICS transaction dump.

User response: Investigate why the conversations with the remote system failed. The transaction on the remote system has probably been abnormally terminated or the session has failed.

If message `DFHZC4930 Session unbound following read timeout` occurred just before the AZTS abend, the AZTS abend is caused by a timeout occurring on an APPC session when CICS attempted to converse with the remote system.

Module: DFHZTSP, DFHAPRR

AZTT

Explanation: An attempt was made to attach a task on a remote system, but the connection with the remote system is not an APPC or MRO connection.

System action: The task is abnormally terminated with a CICS transaction dump.

User response: Redefine the connection as APPC or MRO, or avoid using transaction routing on this connection.

Module: DFHZTSP

AZTU

Explanation: The task does not own the link TCTTE after a sync point has been taken.

System action: The task is abnormally terminated with a CICS transaction dump.

User response: You need further assistance from IBM to resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHZTSP

AZTV

Explanation: An invalid function management header (FMH) has been received from the remote system.

System action: The task is abnormally terminated with a CICS transaction dump.

User response: You need further assistance from IBM to resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHZTSP

AZTW

Explanation: An attempt was made to attach a task on a remotely-owned terminal that was already running a task.

This may be caused by a read time out occurring in the terminal owning region for the link session being used by this transaction. The read timeout is specified in profile DFHCICSS. Although the session has timed out the transaction may still be running and the surrogate TCTTE is unable to accept any more transactions until the first one has finished.

System action: The task is abnormally terminated with a CICS transaction dump.

User response: Check the terminal control table definitions in the systems involved.

Check to see if a read timeout abend occurred on the TOR for the same terminal to determine if this is the cause. Wait until the transaction terminates before retrying any further transactions on this terminal.

Module: DFHZTSP

AZTY

Explanation: A session TCT entry for a remotely owned APPC terminal or connection could not be created because to do so would exceed the maximum number of APPC sessions permitted.

The maximum number of sessions depends on whether the PTF shipped for APAR PQ27823 is installed. The basic limit is 46656 and the names are in the range -AAA to -999. The APAR doubles this limit to 93312 giving an additional range of AAA- to 999-.

System action: The task is abnormally terminated with a CICS transaction dump.

User response: Inform the system programmer. Either wait for the system to become less busy, or delete some APPC sessions.

The system programmer should consider increasing the number of CICS TORs.

Module: DFHZTSP

AZTZ

Explanation: The CICS relay program DFHCRT has been attached in an unsupported manner.

System action: CICS abnormally terminates the transaction with a transaction dump.

User response: The relay transaction executes with an MRO session or an LU type 6.2 conversation as its principal facility. Ensure that the transaction is being attached by APPC terminal sharing logic and not directly by a user transaction.

If the transaction is being attached by APPC terminal sharing logic, you need further assistance to resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHZTSP

AZVA

Explanation: DFHZTSP has timed out waiting for service transaction CITS to complete during the creation of a remote terminal while attaching a task in the application-owning region.

The probable cause of this is that the application-owning region is very busy, so the CITS transaction has been waiting to be dispatched for longer than the timeout value allowed by DFHZTSP. Lack of storage on the target system is one possible reason why CITS has not been dispatched, or has been dispatched but has not completed.

System action: The task is abnormally terminated with a CICS transaction dump.

User response: Retry the transaction when the system becomes less busy. For more information on improving transaction throughput on the target system, see the *CICS Performance Guide*.

Module: DFHZATS

AZVB

Explanation: DFHZCQ has failed to create the remote terminal definition. A previous message or messages should indicate the reason for the failure.

System action: The task is abnormally terminated

with a CICS transaction dump.

User response: See the previous message or messages for further guidance.

Module: DFHZATS

AZVC

Explanation: An unexpected error has occurred in DFHZATS. This is probably caused by DFHZATS being unable to address the CSA, EIB or the TCA. It can also occur if DFHZATS is called with an EXEC CICS START command for transactions CITS, CFTS, CMTS or CDTS. These are internal CICS transactions and should not be called in this way.

System action: The task is abnormally terminated with a CICS transaction dump.

User response: You need further assistance from IBM to resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHZATS

AZVD

Explanation: An unexpected error has occurred in the install procedure of DFHZATS.

System action: The task is abnormally terminated with a CICS transaction dump.

User response: This is a CICS logic error. You need further assistance from IBM to resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHZATS

AZVE

Explanation: DFHZATS is trying to install a remote terminal with the same terminal id as an existing TCT entry.

System action: The task is abnormally terminated with a CICS transaction dump.

User response: Change the terminal names to ensure that a duplicate does not occur in the same system.

Module: DFHZATS

AZVF

Explanation: One of the remote install or delete transactions of DFHZATS (CITS, CFTS, CMTS or CDTS) has been started directly from a terminal. This is not permitted. These transactions can only be started internally by CICS.

System action: The transaction is abnormally terminated with a transaction dump.

User response: None.

Module: DFHZATS

AZVG

Explanation: An error has occurred in the remote delete routines.

System action: The task is abnormally terminated with a CICS transaction dump.

User response: You need further assistance from IBM to resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHZATS

AZVH

Explanation: An error has occurred in the remote delete routine during the mass deletion of remote terminals.

System action: The task is abnormally terminated with a CICS transaction dump.

User response: You need further assistance from IBM to resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHZATS

AZVI

Explanation: An error has occurred in the remote delete routine while an attempt was being made to delete a single remote terminal.

System action: The task is abnormally terminated with a CICS transaction dump.

User response: Check the CADL transient data queue for any associated messages indicating the reason for the error. If you cannot resolve the problem, you will need assistance from IBM. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHZATS

AZVJ

Explanation: An error has occurred during the mass deletion of remote terminals. This is caused by a CICS logic error.

System action: The task is abnormally terminated with a CICS transaction dump.

User response: You need further assistance from IBM to resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHZATS

AZVK

Explanation: An unexpected return code has been received from the remote delete routine during the deletion of a single remote terminal.

This may occur after an AZTW abend when CICS attempts to delete the surrogate TCTTE, but there is still a transaction running against it. It may also occur without an AZTW if the link session timed out leaving the transaction in the AOR still running but followed by a logoff from the terminal which initiated the long running transaction.

System action: The task is abnormally terminated with a CICS transaction dump.

User response: Look for an accompanying DFHZC6911 message indicating the reason for the delete failure, and take appropriate action.

Check to see if the link session for this terminal timed out and whether the terminal then issued another transaction or logged off. All should be well once the long running transaction finishes.

Module: DFHZATS

AZVL

Explanation: An error has occurred during the mass flagging of remote terminals for deletion.

System action: The task is abnormally terminated with a CICS transaction dump.

User response: You need further assistance from IBM to resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHZATS

AZVM

Explanation: An error has occurred in DFHZATMF. This is probably caused by DFHZATMF being unable to address the CSA, EIB, or the TCA.

System action: The task is abnormally terminated with a CICS transaction dump.

User response: You need further assistance from IBM to resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHZATMF

AZVN

Explanation: The remote delete flag transaction of DFHZATMF (CRMF) has been started directly from a terminal. This is not permitted. This transaction can only be started internally by CICS.

System action: The transaction is abnormally terminated with a transaction dump.

User response: None.

Module: DFHZATMF

AZVO

Explanation: The remote delete transaction of DFHZATMD (CRMD) has been started directly from a terminal. This is not permitted. This transaction can only be started internally by CICS.

System action: The transaction is abnormally terminated with a transaction dump.

User response: None.

Module: DFHZATMD

AZVP

Explanation: An error has occurred in DFHZATMD. This is probably caused by DFHZATMD being unable to address the CSA, EIB, or the TCA.

System action: The task is abnormally terminated with a CICS transaction dump.

User response: You need further assistance from IBM to resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHZATMD

AZVQ

Explanation: A request to install a shipped terminal definition has been rejected by the autoinstall user program.

System action: The task is abnormally terminated with a CICS transaction dump.

User response: Retry the transaction when the system is less busy.

Module: DFHZATS

AZVR

Explanation: An attempt to install a shipped terminal definition has failed because the autoinstall user program has issued an unexpected return code.

System action: The task is abnormally terminated with a CICS transaction dump.

User response: Examine the autoinstall user program to determine why this return code was issued.

Module: DFHZATS

AZVS

Explanation: An attempt to install a shipped terminal definition has failed because an error has occurred in the autoinstall user program.

System action: The task is abnormally terminated with a CICS transaction dump.

User response: Examine the autoinstall user program to determine the reason for the failure.

Module: DFHZATS

AZVU

Explanation: DFHZATS was attempting to autoinstall a shipped terminal, a virtual terminal or a shipped connection and the autoinstall URM was called. However the autoinstall failed for one of the following reasons:

- The name returned by the URM in SELECTED_SHIPPED_TERMID started with one of these characters
  - <
  - >
  - -
- The value in the SIT VTPREFIX parameter contained imbedded blanks or a character that is not allowed for terminal names.

System action: The task is abnormally terminated with a CICS transaction dump.

User response: You need further assistance from IBM to resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHZATS

AZXA

Explanation: An unexpected error, with reason code 5, has been detected in the catchup program, DFHZXCU. See the description of message DFHXG6492 for further details.

System action: Console message DFHXG6492 is issued, and CICS continues after abending the transaction.

User response: Refer to message DFHXG6492.

Module: DFHZXCU

AZXB

Explanation: An unexpected error, with reason code 4, has been detected in the catchup program, DFHZXCU. See the description of message DFHXG6492 for further details.

System action: Console message DFHXG6492 is issued, and CICS continues after abending the transaction.

User response: Refer to message DFHXG6492.

Module: DFHZXCU

Chapter 3. System abend and dump codes

Abend and dump codes are used by the following system components and products:

- The CICS system
- IMS™
- The CICS translator
- The CICS system dump program
- The CICS utility program, DFHCSDUP
- The external CICS interface
- The CICS JVM interface
- Language Environment

CICS system dump codes

Whenever a CICS system dump is requested, CICS references a system dump code that corresponds to the event that caused the dump request to be made. This is done in order to see what further action should be taken. More information about this can be found in the *CICS Problem Determination Guide*.

In most cases, system dump codes correspond to a DFH message with the DFH tag stripped off. For example, system dump code DM0001 corresponds to message DFHDM0001 with the DFH tag removed. For further information, look up the relevant message where appropriate.

However, there are some exceptions to this format, as shown in the following list.

System dump code
Corresponding message or exception condition

ABNDU603
This system dump code refers to a USER abend code and is associated with message DFHSR0603.

ABNDU605
This system dump code refers to a USER abend code and is associated with message DFHSR0605.

APTRAPPC
This system dump code is associated with message DFHTR1001.

APTRAPUS
This system dump code is associated with message DFHTR1000.

APUSER
This system dump code is issued through the use of the CEBT transaction when performing a PERFORM SNAP command.

APXRFTO
This system dump code has no DFH message associated with it. An error in the currently active CICS system has occurred. An alternate CICS system is now taking control and is requesting that the active CICS system produces a dump of itself.

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MT0001
This system dump code has no DFH message associated with it. It indicates that a dump was requested by a user of CEMT, issuing either a PERFORM SNAP or a PERFORM DUMP.

DHxx (IMS) abend codes

If the IMS high-level programming interface (HLPI) has found a condition caused by a programming error, or if DL/I has returned a status code to HLPI which indicates an error, IMS returns a status code *xx* to CICS Transaction Server for z/OS. A few of the more common abend codes are listed below. For a full list of xx status codes that can make up a DHxx abend, refer to the *IMS Application Programming: EXEC DLI Commands* manual.

DHTA

Explanation: A task has issued a program specification block (PSB) schedule request but the PSB could not be found.

User response: See the description of the DL/I status code TA in the *IMS/ESA Application Programming: EXEC DLI Commands* manual for guidance.

DHTC

Explanation: A task has issued a program specification block (PSB) schedule request but the PSB has already been scheduled.

User response: See the description of the DL/I status code TC in the*IMS Application Programming: EXEC DLI Commands* manual for guidance.

DHTE

Explanation: A task has issued a program specification block (PSB) schedule request but a PSB initialization error occurred.

User response: See the description of the DL/I status code TE in the *IMS/ESA Application Programming: EXEC DLI Commands* manual for guidance.

DHTG

Explanation: A task has issued a terminate request but the request failed because the program specification block (PSB) is not scheduled.

User response: See the description of the DL/I status code TG in the *IMS/ESA Application Programming: EXEC DLI Commands* manual for guidance.

DHTH

Explanation: A task has issued a DL/I request but the request failed because the program specification block (PSB) is not scheduled.

User response: See the description of the DL/I status code TH in the *IMS/ESA Application Programming: EXEC DLI Commands* manual for guidance.

DHTJ

Explanation: A task has issued a program specification block (PSB) schedule request but the request failed because CICS is not connected to DBCTL.

User response: See the description of the DL/I status code TJ in the *IMS/ESA Application Programming: EXEC DLI Commands* manual for guidance.

DHTQ

Explanation: A task has issued a program specification block (PSB) schedule request but the request failed.

User response: See the description of the DL/I status code TQ in the *IMS/ESA Application Programming: EXEC DLI Commands* manual for guidance.

01xx (translator) abend codes

0100 LISTING FILE CANNOT BE OPENED

Explanation: The listing data set has not opened successfully.

System action: The CICS command level translator terminates abnormally. A system dump is produced if a SYSABEND or SYSUDUMP DD statement is provided.

User response: Ensure correct JCL or determine what is causing the open error.

Module: DFHEAP (for assembler language), DFHECP (for COBOL), DFHEDP (for C), DFHEPP (for PL/I)

0101 UNRECOVERABLE TRANSLATOR ERROR

Explanation: The translator encountered a program check from which it could not recover.

System action: The CICS command-level translator terminates abnormally. A system dump is produced if a SYSABEND or SYSUDUMP DD statement is provided.

User response: You need further assistance from IBM to resolve this problem. See the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHEAP (for assembler language), DFHECP (for COBOL), DFHEDP (for C), DFHEPP (for PL/I)

02xx (DFHPD670) abend codes

0211 RECURSIVE PROGRAM CHECK

Explanation: A program check has occurred while the system dump formatting program was handling an earlier program check.

System action: The system dump formatting program terminates abnormally. A system dump is produced if a SYSABEND or SYSUDUMP DD statement is provided.

User response: The program check preceding the abend is accompanied by message DFHPD0123. See the description of this message for more guidance.

Module: DFHPD

0212 TOO MANY PROGRAM CHECKS

Explanation: A sixth program check has occurred during execution of the system dump formatting program.

System action: The system dump formatting program terminates abnormally. A system dump is produced if a SYSABEND or SYSUDUMP DD statement is provided.

User response: This abend is preceded by five DFHPD0123 messages, one for each of the five earlier program checks. See the description of this message for more guidance.

Module: DFHPD

03xx (DFHCSDUP) abend codes

0300

Explanation: The SYSIN data set has not opened successfully.

System action: The CSD batch update utility terminates abnormally. If a SYSABEND or SYSDUMP DD statement is provided, a system dump is produced.

User response: Ensure that the JCL is correct and that the SYSIN data set exists in sequential form. If necessary, examine the SYSIN DD statement to determine the cause of the error.

Module: DFHCSDUP

0301

Explanation: The RECFM parameter specified in the SYSIN data set is invalid.

System action: The CSD batch update utility terminates abnormally. If a SYSABEND or SYSUDUMP DD statement is provided, a system dump is produced.

User response: Ensure that the RECFM parameter in the SYSIN data set is either F or V.

Module: DFHCSDUP

0302

Explanation: The record length specified in the SYSIN data set is invalid.

System action: The CSD batch update utility terminates abnormally. If a SYSABEND or SYSUDUMP DD statement is provided, a system dump is produced.

User response: Ensure that the record length specified in the SYSIN data set is no greater than 80.

Module: DFHCSDUP

0303

Explanation: The SYSPRINT data set did not open successfully.

System action: The CSD batch update utility terminates abnormally. If a SYSABEND or SYSUDUMP DD statement is provided, a system dump is produced.

User response: Ensure that the SYSPRINT data set exists. If necessary, examine the SYSPRINT DD statement to determine the cause of the error.

Module: DFHCSDUP

0304

Explanation: DFHCSDUP has found an unrecognized resource type code in a CSD record. The unrecognized code does not match any of the function codes in the language definition table. This can occur for one of the following reasons:

1. You are using a CICS release that does not support a type of definition that was created on the CSD file by a later CICS release.
2. The language definition table (DFHEITSP or DFHEITCU) is invalid for this CICS release.

3. The CSD manager (DFHDMP) has passed an invalid CSD record buffer to DFHPUP. This is a CICS internal logic error.

System action: The CSD batch update utility terminates abnormally. If a SYSABEND or SYSUDUMP DD statement is provided, a system dump is produced.

User response: Determine which of the possible reasons caused the error. If you can eliminate reasons 1 and 2, you can assume that reason 3 applies.

Take action corresponding to the reason you have established as follows:

1. Ignore the message.
2. Ensure that the library contains versions of DFHEITSP and DFHEITCU that are valid for the CICS release you are running.
3. You need further assistance from IBM to resolve this problem. See *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHCSDUP

0305

Explanation: An unexpected return code was received either while trying to close the alternate SYSIN and SYSPRINT DCBs (CLOSEDCB) or while trying to free the task local storage (FREETLS).

System action: The CSD batch update utility terminates abnormally. If a SYSABEND or SYSUDUMP DD statement is provided, a system dump is produced.

User response: You need further assistance from IBM to resolve this problem. See *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHCSDUP

0307

Explanation: An attempt to print the input command failed. Since messages cannot be issued, the utility must terminate.

System action: The CSD batch update utility terminates abnormally. If a SYSABEND or SYSUDUMP DD statement is provided, a system dump is produced.

User response: You need further assistance from IBM to resolve this problem. See *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHCSDUP

0308

Explanation: During the migration of a TCT table, a bad command sequence was found. This can occur for one of the following reasons:

- TYPETERM was not preceded by TERMINAL
- TERMINAL was not followed by TYPETERM

System action: The CSD batch update utility terminates abnormally. If a SYSABEND or SYSUDUMP DD statement is provided, a system dump is produced.

User response: Correct the TCT table to be migrated and rerun the job.

Module: DFHCSDUP

0309

Explanation: DFHCSDUP has found an unrecognized function code in a command. This is a CICS internal logic error.

System action: The CSD batch update utility terminates abnormally. If a SYSABEND or SYSUDUMP DD statement is provided, a system dump is produced.

User response: You need further assistance from IBM to resolve this problem. See *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHCSDUP

0321

Explanation: An internal error has occurred in module DFHCSDUP when invoked by a CSD utility command.

System action: Message DFH5100 is issued and the CSD batch update utility terminates abnormally. If a SYSABEND or SYSUDUMP DD statement is provided, a system dump is produced.

User response: You need further assistance from IBM to resolve this problem. See *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHCSDUP

0322

Explanation: While processing a MIGRATE command, the specified table to be migrated could not be loaded.

System action: Message DFH5601 is issued and the CSD batch update utility terminates abnormally. If a SYSABEND or SYSUDUMP DD statement is provided, a system dump is produced.

User response: You need further assistance from IBM to resolve this problem. See the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHCSDUP

0323

Explanation: While processing a command, VSAM detected an error.

System action: Message DFH5179 is issued preceded by either DFH5177 or DFH5178 depending on the error and the CSD batch update utility terminates abnormally. If a SYSABEND or SYSUDUMP DD

statement is provided, a system dump is produced.

User response: See the description of the issued messages to determine the cause of the error.

Module: DFHCSDUP

0325

Explanation: When the LIST command invoked DFHDMP to scan the objects on the CSD file, an error occurred during execution of the DFHDMP function.

System action: Message DFH5180 is issued and the CSD batch update utility terminates abnormally. If a SYSABEND or SYSUDUMP DD statement is provided, a system dump is produced.

User response: You need further assistance from IBM to resolve this problem. See the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHCSDUP

0326

Explanation: There has been an internal logic error in the DFHCSDUP utility program. The data in the back-translated output buffer is invalid. The length code may be out of range or the data fields in the wrong sequence. One or more of the data fields may be invalid.

System action: Message DFH5184 is issued and the CSD batch update utility terminates abnormally. If a SYSABEND or SYSUDUMP DD statement is provided, a system dump is produced.

User response: You need further assistance from IBM to resolve this problem. See the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHCSDUP

0327

Explanation: The language table DFHEITCU could not be loaded.

System action: The CSD batch update utility terminates abnormally. If a SYSABEND or SYSUDUMP DD statement is provided, a system dump is produced.

User response: Refer to the preceding message which should specify the reason for the failure. You need further assistance from IBM to resolve this problem. See the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHCSDUP

0328

Explanation: The language table DFHEITCU could not be unloaded.

System action: The CSD batch update utility terminates abnormally. If a SYSABEND or SYSUDUMP DD statement is provided, a system dump is produced.

User response: Refer to the preceding message which should specify the reason for the failure. You need further assistance from IBM to resolve this problem. See the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHCSDUP

0330

Explanation: The cross reference table size for the table being migrated is too small.

System action: The CSD batch update utility terminates abnormally. If a SYSABEND or SYSUDUMP statement is provided, a system dump is produced.

User response: You need further assistance from IBM to resolve this problem. See the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHCSDUP

0331

Explanation: DFHCSDUP was invoked to perform an EXTRACT command using a Language Environment-conforming HLL user exit, but the utility failed to initialize the CEE environment successfully.

System action: The CSD batch update utility terminates abnormally. If a SYSABEND or SYSUDUMP statement is provided, a system dump is produced. Register 15 contains the initialization return code.

User response: You need further assistance from IBM to resolve this problem. See the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHCSDUP

0332

Explanation: DFHCSDUP was invoked to perform an EXTRACT command using a Language Environment-conforming HLL user exit, but during execution the utility recived a bad return code from the Language Environment.

System action: The CSD batch update utility terminates abnormally. If a SYSABEND or SYSUDUMP statement is provided, a system dump is produced. Register 15 contains the Language Environment return code. code.

User response: You need further assistance from IBM to resolve this problem. See the *CICS Problem*

Determination Guide for guidance on how to proceed.

Module: DFHCSDUP

04xx (external CICS interface) abend codes

0401

Explanation: An external CICS interface (EXCI) request was issued using the CALL API or the EXEC API, and the EXCI stub DFHXCSTB link-edited with the application detected that it was running in AMODE 24. The external CICS interface only supports calls made in AMODE 31.

System action: The application terminates abnormally.

User response: Change the application so that EXCI calls are made in AMODE 31, or relink-edit the application AMODE 31.

Module: DFHXCSTB.

0402

Explanation: The external CICS interface module DFHXCPRH issued an MVS ESTAE macro to establish a recovery environment, but a nonzero return code was returned from MVS.

System action: The application terminates abnormally with a dump.

User response: Examine the dump and any associated MVS messages produced to determine why the MVS ESTAE request failed.

If the error occurred while processing an INITIALIZE_USER request on behalf of the application, an attempt to format the dump using the CICS IPCS dump formatter does not produce any formatted output. This is because the error occurred too early in EXCI initialization for there to be any control blocks.

Module: DFHXCPRH

0403

Explanation: The external CICS interface module DFHXCPRH issued an MVS GETMAIN request to obtain storage for its XCGLOBAL block, but a nonzero return code was returned from MVS.

System action: Module DFHXCPRH issues an MVS abend with abend code 0403 which invokes its ESTAE routine to clear up its environment. A SYSMDUMP is taken before returning control to the application. An application using the EXCI CALL API receives RESPONSE(SYSTEM_ERROR) REASON(XCGLOBAL_GETMAIN_ERROR) in its return area. The subreason1 field of the return area contains the R15 return code from MVS indicating why the GETMAIN failed. An application using the EXCI EXEC API receives RESP(LINKERR) RESP2(602).

User response: Use the MVS R15 return code obtained from the application or from the dump to determine why the MVS GETMAIN request failed. If the reason is insufficient storage, increase the region size of the batch application.

An attempt to format the SYSMDUMP produced with the CICS IPCS dump formatter does not produce any formatted output for the job because the error occurred too early in EXCI initialization for there to be any control blocks.

Module: DFHXCPRH

0404

Explanation: The external CICS interface module DFHXCPRH needed to take an MVS SDUMP for an earlier reported problem. However the error has occurred too early in EXCI initialization for EXCI dump services to be available.

System action: Module DFHXCPRH issues an MVS abend with abend code 0404 which invokes its ESTAE routine from which a SYSMDUMP is taken instead of an SDUMP to capture the earlier reported problem.

User response: Examine the SYSMDUMP to determine the cause of the earlier reported problem.

An attempt to format the SYSMDUMP produced with the CICS IPCS dump formatter does not produce any formatted output for the job because the error occurred too early in EXCI initialization for there to be any control blocks.

Module: DFHXCPRH

0405

Explanation: The external CICS interface module DFHXCPRH issued an IEFSSREQ SSI verify request to MVS to determine the number of the CICS SVC type 3 SVC to use. The SSI VERIFY request failed.

System action: Module DFHXCPRH issues an MVS abend with abend code 0405 which invokes its ESTAE routine to clear up its environment. A SYSMDUMP is taken before returning control to the application. An application using the EXCI CALL API receives RESPONSE(SYSTEM_ERROR) REASON(SSI_VERIFY_FAILED) in its return area. The subreason1 field of the return area contains the R15 return code from MVS indicating why the SSI verify failed. An application using the EXCI EXEC API receives RESP(LINKERR) RESP2(606).

User response: Use the MVS R15 return code obtained from the application or from the dump to determine why the SSI VERIFY request failed.

An attempt to format the SYSMDUMP produced with the CICS IPCS dump formatter does not produce any

formatted output for the job because the error occurred too early in EXCI initialization for there to be any control blocks.

Module: DFHXCPRH

0406

Explanation: The external CICS interface module DFHXCPRH called the CICS SVC to initialize the EXCI environment. The CICS SVC call failed.

System action: Module DFHXCPRH issues an MVS abend with abend code 0406 which invokes its ESTAE routine to clear up its environment. A SYSMDUMP is taken before returning control to the application. An application using the EXCI CALL API receives RESPONSE(SYSTEM_ERROR) REASON(CICS_SVC_CALL_FAILURE) in its return area. The subreason1 field of the return area contains the R15 return code from the CICS SVC indicating why it failed. An application using the EXCI EXEC API receives RESP(LINKERR) RESP2(607).

User response: Use the MVS R15 return code obtained from the application or from the dump to determine why the CICS SVC call failed.

An attempt to format the SYSMDUMP produced with the CICS IPCS dump formatter does not produce any formatted output for the job because the error occurred too early in EXCI initialization for there to be any control blocks.

Module: DFHXCPRH

0407

Explanation: The external CICS interface module DFHXCPRH issued a call to the CICS SVC to check whether the SVC in use is at the correct level to be used with the external CICS interface. The check failed indicating that the CICS SVC is not at the correct level.

System action: Message DFHEX0100 is output, and module DFHXCPRH issues an MVS abend with abend code 0407 which invokes its ESTAE routine to clear up its environment. A SYSMDUMP is taken before returning control to the application. An application using the EXCI CALL API receives RESPONSE(SYSTEM_ERROR) REASON(INCORRECT_SVC_LEVEL) in its return area. An application using the EXCI EXEC API receives RESP(LINKERR) RESP2(627).

User response: See the explanation of message DFHEX0100 for guidance.

An attempt to format the SYSMDUMP produced with the CICS IPCS dump formatter does not produce any formatted output for the job because the error occurred too early in EXCI initialization for there to be any control blocks.

Module: DFHXCPRH

0408

Explanation: The external CICS interface module DFHXCPRH issued an MVS GETMAIN request for its working storage but a nonzero return code was returned from MVS.

System action: Module DFHXCPRH issues an MVS abend with abend code 0408 which invokes its ESTAE routine to clear up its environment. A SYSMDUMP is taken before returning control to the application. An application using the EXCI CALL API receives RESPONSE(SYSTEM_ERROR) REASON(WS_GETMAIN_ERROR) in its return area. The subreason1 field of the return area contains the R15 return code from MVS indicating why the GETMAIN failed. An application using the EXCI EXEC API receives RESP(LINKERR) RESP2(601).

User response: Use the MVS R15 return code obtained from the application or from the dump to determine why the MVS GETMAIN request failed. If the reason is insufficient storage, increase the region size of the batch application.

An attempt to format the SYSMDUMP produced with the CICS IPCS dump formatter does not produce any formatted output for the job because the error occurred too early in EXCI initialization for there to be any control blocks.

Module: DFHXCPRH

0409

Explanation: The external CICS interface module DFHXCPRH issued an MVS GETMAIN request for storage required for its SSI VERIFY request, but a nonzero return code was returned from MVS.

System action: Module DFHXCPRH issues an MVS abend with abend code 0409 which invokes its ESTAE routine to clear up its environment. A SYSMDUMP is taken before returning control to the application. An application using the EXCI CALL API receives RESPONSE(SYSTEM_ERROR) REASON(VERIFY_BLOCK_GM_ERROR) in its return area. The subreason1 field of the return area contains the R15 return code from MVS indicating why the GETMAIN failed. An application using the EXCI EXEC API receives RESP(LINKERR) RESP2(605).

User response: Use the MVS R15 return code obtained from the application or from the dump to determine why the MVS GETMAIN request failed. If the reason is insufficient storage, increase the region size of the batch application.

An attempt to format the SYSMDUMP produced with the CICS IPCS dump formatter does not produce any formatted output for the job because the error occurred too early in EXCI initialization for there to be any control blocks.

Module: DFHXCPRH

0410

Explanation: The external CICS interface module DFHXCPRH issued an MVS GETMAIN request for an XCUSER block but a nonzero return code was returned from MVS.

System action: Module DFHXCPRH issues an MVS abend with abend code 0410 which invokes its ESTAE routine to clear up its environment. A SYSMDUMP is taken before returning control to the application. An application using the EXCI CALL API receives RESPONSE(SYSTEM_ERROR) REASON(XCUSER_GETMAIN_ERROR) in its return area. The subreason1 field of the return area contains the R15 return code from MVS indicating why the GETMAIN failed. An application using the EXCI EXEC API receives RESP(LINKERR) RESP2(603).

User response: Use the MVS R15 return code obtained from the application or from the dump to determine why the MVS GETMAIN request failed. If the reason is insufficient storage, increase the region size of the batch application.

Module: DFHXCPRH

0411

Explanation: The external CICS interface dump module DFHXCDMP was attempting to call the CICS SVC in order for an MVS SDUMP to be taken to capture an earlier problem. DFHXCDMP was unable to call the SVC as no SVC number was available. DFHXCDMP issued an 0411 abend in order that the callers ESTAE routine is invoked which takes a SYSMDUMP instead.

System action: A SYSMDUMP is taken instead of an SDUMP for an earlier reported problem.

User response: Use the SYSMDUMP produced to diagnose the earlier reported problem.

An attempt to format the SYSMDUMP produced with the CICS IPCS dump formatter does not produce any formatted output for the job because the error occurred too early in EXCI initialization for there to be any control blocks.

Module: DFHXCDMP

0412

Explanation: The external CICS interface dump module DFHXCEIP was processing an EXCI EXEC API request and detected that the EXEC parameter list passed to it contained a function that is not supported by the external CICS interface.

System action: The application is abnormally terminated with a dump.

User response: This error indicates the parameter list being passed to the EXCI has not been generated by the CICS translator. The translator should always be used. Correct the application to specify the correct EXCI EXEC API command.

An attempt to format the SYSMDUMP produced with the CICS IPCS dump formatter may not produce any formatted output for the job if this was the first EXCI request for this TCB.

Module: DFHXCEIP

0413

Explanation: The external CICS interface dump module DFHXCEIP was processing an EXCI EXEC API request and detected that the EXEC parameter list passed to it did not require the mandatory RETCODE parameter in which return codes are returned to the application.

An attempt to format the SYSMDUMP produced with the CICS IPCS dump formatter may not produce any formatted output for the job if this was the first EXCI request for this TCB.

System action: The application is abnormally terminated with a dump.

User response: This error indicates the parameter list being passed to the EXCI has not been generated by the CICS translator. The translator should always be used. Correct the application to specify RETCODE.

Module: DFHXCEIP

0414

Explanation: The external CICS interface module DFHXCEIP issued an MVS ESTAE macro to establish a recovery environment but a nonzero return code was returned from MVS.

System action: The application terminates abnormally with a dump.

User response: Examine the dump and any associated MVS messages to determine why the MVS ESTAE request failed.

An attempt to format the SYSMDUMP produced with the CICS IPCS dump formatter may not produce any formatted output for the job if this was the first EXCI request for this TCB.

Module: DFHXCEIP

0415

Explanation: The external CICS interface module DFHXCEIP detected an error early in EXCI initialization before EXCI dump services were available. DFHXCEIP issues abend 0415 so that its ESTAE routine is invoked from where an SYSMDUMP is taken instead to capture the error.

System action: The application terminates abnormally with a dump.

User response: Examine the SYSMDUMP to determine the cause of the earlier reported error.

An attempt to format the SYSMDUMP produced with the CICS IPCS dump formatter does not produce any formatted output for the job because the error occurred too early in EXCI initialization for there to be any control blocks.

Module: DFHXCEIP

05xx CICS JVM Interface abend codes

0501

Explanation: Either a JCICS Java Class method or a CICS Domain call was invoked from a Java application running under control of a JVM and executing on a thread other than the initial process thread (IPT). CICS requests can only be issued when executing under the initial process thread.

System action: The thread is abended with a MVS 0501 user abend code causing the initial process thread to be abnormally terminated. Language environment recovery processing is driven causing a 4xxx abend to be issued under the J8 TCB on which the JVM is running. CICS recovery processing terminates the JVM and abnormally terminates the transaction with an ASRB abend code.

User response: If issued from a JCICS call, change the application so that these requests are issued when running under the initial process thread. Otherwise contact your local IBM support centre for assistance.

Module: DFHCALLA, DFHCDKRN, DFHMSGIF, DFHTRCIF

0505

Explanation: This abend occurs when a request for MVS storage waits for storage for a time longer than the global timeout value specified in SMVPA (storage management anchor).

CICS has determined that there is a shortage of MVS storage available for supporting JVMs, and has previously issued message DFHSM0139. Threads requiring MVS storage which cannot be satisfied are queued until MVS storage becomes available. If such a thread waits for a time longer than the global timeout value, then CICS abends the thread with MVS abend code 0505, so forcing the requesting transaction to terminate, and release its resources.

System action: CICS will abend the requesting transaction which might help to relieve the shortage of MVS storage.

User response: You should decrease the MAXJVMTCBS parameter, to reduce the number of concurrent JVMs which may be requesting storage. For more information about how to do this, see the *CICS Performance Guide*.

Module: DFHSMVP

0555

Explanation: A program check occurred, or an operating system or CICS abend was issued within the CICS JVM interface. CICS recovery processing issues an MVS 555 user abend in order to drive the language environment ESTAE routine, which is still active, as part of its cleanup and termination of the CICS task.

System action: The 555 abend code drives language environment recovery processing. The JVM is terminated and the CICS task is abnormally terminated with the abend code that first initiated CICS recovery processing.

User response: None. The 555 abend is an internal mechanism to ensure that CICS and Language environment recovery facilities correctly terminate the CICS task and the JVM environment.

Module: DFHAPLJ

4xxx LE/370 abend codes

Abend codes in the range 4000 to 4095 are issued by LE/370 runtime library modules for LE enabled applications running on CICS.

When LE/370 detects an unrecoverable error, LE/370 terminates the transaction with an EXEC CICS abend with an abend code numbered from 4000-4095. A write-to-operator (WTO) is performed to write a CEE1000S message to the system console. This message contains the abend code and the reason code associated with the abend.

Some of these abends can occur when the system is under stress and LE/370 is unable to acquire the resources required to report a previous abend or failure. In this case there will usually be other symptoms that the system is under stress (for

example short on storage messages or other transactions being purged with AEXY or AKC3 abends), and inspection of the transaction dump should allow identification of the original abend.

LE/370 abend codes and run-time messages are described in *IBM Language Environment for MVS and VM Debugging Guide and Run-Time Messages*.

Chapter 4. DFH messages - DFHN to DFHZ

CICS produces different types of messages for different users of the product. The messages are intended as a quick reference to get started with problem determination.

While CICS is running, it can produce several types of messages:

- Console messages advise the system operator of execution progress, or request a decision.
- Certain CICS-supplied support programs communicate directly with terminal operators.
- CICS management modules and support programs log significant events and error occurrences to transient data destinations; for example, to the control system master terminal (CSMT), or to the CICS database control log (CDBC) for the CICS-DBCTL interface.
- The CICS message switching program (DFHMSP) generates message switching responses, as described in CMSG - message switching in CICS Supplied Transactions.
- CICS directs informational macro notes (mnotes) to programmers. These are not documented.
- Messages produced by CICS utility programs such as DFH£MOLS and DFHMNDUP. These messages are self-explanatory and are not documented.

With the exception of the AXM messages, a small number of numeric abends and the transaction dump codes, the messages can also be viewed online using the CICS transaction CMAC. For guidance on using CMAC, see ../com.ibm.cics.ts.systemprogramming.doc/transactions/cmac/dfha72g.dita#dfha72g.

The messages in volume 2 range from DFHN to DFHZ. If you want to look up messages from DFH01 to DFHM, see CICS messages and codes overview in Messages and Codes Vol 1.

CICS DFH message Identifiers

Message identifiers are of two types.

DFHnnnn identifiers

These consist of the prefix “DFH” followed by a four digit message number. “DFH” is the IBM assigned identifier for CICS modules. The first two digits are the CICS module reference code as follows:

01 DFHSSIN

42 DFHZCNR

51 DFHCSDUP

52 DFHCSDUP

55 DFHCSDUP

56 DFHCSDUP

7x Command-level translators

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The last two digits are assigned by CICS to identify the message or group of messages within an assembled program.

DFHccnnnn identifiers

These consist of the prefix "DFH" followed by a two-letter component identifier (*cc*), and a four-digit message number (*nnnn*). The component identifier shows the domain or the component which issues the message. Here is a list of component identifiers with associated domains and components:

AC Abnormal condition program component

AD CICS Development Deployment Tool messages

AI Auto-install terminal model manager (AITM)

AM RDO allocation manager

AP Application domain

BA CICS business transaction services (BTS) domain

BR Bridging to 3270 transactions

CA RDO command utility routine

CC CICS catalog domain (local and global)

CE Sign on program component

CF CICS coupling facility data tables server

CP CPI Communications component

CQ CQ console messages

CR ISC remote scheduler component

CZ CICS class libraries domain

DB CICS database control component

DD Directory manager

DH Document handler component

DM Domain manager domain

DP Debugging profile domain

DS Dispatcher domain

DU Dump domain

DX CICS database control component

EJ Enterprise Java domain

EM Event Manager domain

ER User backout program

EX External CICS interface

FC File control component

FE FE terminal test program component

IC Interval control program

IE IP ECI domain

II CORBA and IIOP domain

IN Indoubt testing tool

IR Interregion component

IS Intersystem component

JC Online journal control component

KC Transaction/profile manager

KE Kernel domain

LD Loader domain

LG Logger domain

LM Lock manager domain

MC BMS message control program component

ME Message domain

MN Monitor domain

MQ WebSphere MQ domain

MU Message editing utility program

MV MVS RESMGR exit stub

NC Named counter sequence number server

NQ Enqueue manager domain

OT Object Transaction Services domain

PA Parameter manager domain

PC Program control program component

PD Print dump exit routine DFHPDX

PG Program manager domain

PI Pipeline manager domain

PR Partner resource manager

PS System spooler interface control module component

RD RDO allocation manager

RM Recovery manager

RP CICS ONC RPC

RS Communications resynchronization program

RT ISC transaction routing component

RU Recovery utility program

RX RRS-coordinated EXCI domain

RZ Request Streams domain

SH Scheduler domain

SI System initialization component

SJ Scaleable Java domain

SK Sub task control program component

SM Storage manager domain

SN Signon component

SO CICS Sockets domain

SR System recovery component

ST Statistics domain

SZ Front end programming interface (FEPI)

TC Terminal control program component

TD Transient data component

TF Terminal facility manager

TI Timer domain

TM System termination program component

TO Terminal object resolution program component

TP BMS terminal page retrieval program component

TR Trace domain

TS Temporary storage domain

UP Measured usage license charging support macro

US User domain

WB CICS Web support domain

W2 Web 2.0 domain

XA XRF alternate component

XC XRF CICS availability manager

XG XRF general component

XM Transaction manager

XO XRF CICS availability manager

XQ Shared temporary storage queue pool server

XS CICS security component

ZC Terminal control working set component

ZE TCP error message writer component

ZN Syncpoint component

For example, the CICS message DFHAP0002 is issued from the application domain, identified by the two-character identifier AP.

Action codes

Certain messages (for example, DFHDB8208D) include an action code after the message identifier. Action codes give guidance to the operator of the type of action needed when the message appears on the system console. The following action codes are used:

A Immediate action (for example, mount a tape)

D Immediate decision (reply to a request, for example, enter "GO" or "CANCEL")

E Eventual – action is required, but does not have to be taken immediately

I No action required (If issued via the message domain, these messages can be suppressed by specifying MSGLVL=0 as a system initialization override.)

Severity codes

Certain messages, especially those associated with messages to terminal operators and messages which come from CICS utilities, have a severity code. (DFHST0210 I, is an example.) A severity code indicates to the operator whether a message is associated with an error, and if so, how serious it is. The following severity codes are used:

E Error. Something has gone wrong and action is required of the user before CICS processing can continue.

I Information only. No action is required.

W Alert. Something may have gone wrong, a program loop for example, but CICS processing continues.

S Severe error. Something serious has gone wrong and immediate action is required. CICS processing is suspended until action has been taken.

Format of message information

Information about each message is presented in the following format:

- **Message identifier** – in the form DFH*nnnn* or DFH*ccnnnn*
- **Message text** – the words and inserts that make up the message as displayed in CICS
- **Explanation** – the events leading to or following the production of the message
- **System action** – the action that has been or will be taken by CICS
- **User response** – the action recommended for the user (the console or terminal operator or system programmer)
- **Destination** – the device or log to which the message is sent. This is one of the following:
  - Console – refers to a terminal type attached to CICS. (Route codes are 2 and 11 unless otherwise stated.)
  - Terminal end user
  - TERMCDBC – terminals running the CDBC transaction.
  - SYSPRINT (System printer)
  - One of the following transient data queues:

    CADL z/OS Communications Server resource definition log

    CADO CICS Development Deployment Tool messages

    CAIL Autoinstall terminal model manager (AITM) log

    CCPI Common programming interface for communications (CPI Communications) messages

    CCZM CICS classes

CDBC CICS-DBCTL interface log

CDB2 CICS DB2 messages

CDUL Transaction dump messages

CECO Event capture and emission messages

CEJL Java

CEPO Event processing messages

CIEO IP ECI messages

CIIL CORBA and IIOP messages

CISL IPCONN resource definition log

CISO IPIC messages

CJRM JRas logging and tracing facility messages (Java)

CKQQ
CICS-MQ connection messages

CMIG Migration log for messages reporting the use of functions that are no longer supported

CMLO
Markup language messages

CMQM
CICS-MQ messages

CPIO CICS SOAP messages

CRDI Log for installed resource definitions

CRLO Resource lifecycle messages

CRPO ONC RPC messages

CSBA BA domain message queue

CSBR Bridge facility messages

CSCC CICS client error log

CSCS Sign on/off security log

CSDH Document handler

CSDL CEDA command log

CSFL File allocation and related messages

CSJE Redirected error output from CICS JVM

CSJO Redirected output from CICS JVM

CSKL Log for transaction and profile resource definitions

CSLB LIBRARY resource definition log

CSML Sign on/off messages

CSMT Write term errors and abends from DFHTACP and DFHACP

CSNE Terminal error messages issued from DFHZNAC.

CSOO Sockets domain message queue

CSPL Log for program resource definitions

CSQL TDQUEUE messages

CSRL Log for partner resource definitions

CSSH Scheduler services

CSSL Statistics log

CSTL Term I/O error messages from DFHTACP

CSZL FEPI message queue

CSZX FEPI event queue

CWBO
CICS Web support messages

CWBW
HTTP warning headers on messages received by CICS Web support

Note: Destination CXRF is used by the alternate CICS system in an XRF environment until the other destinations are made available during the takeover.

- **Module(s)** – the name(s) of the module or modules that determined that the message should be sent. (This is not necessarily the module that issued the macro to write the message.)

XMEOUT parameters

Messages that can drive the XMEOUT global user exit include a list of XMEOUT parameters. The XMEOUT exit allows you to suppress or reroute messages that use the message domain.

A number of console messages should not be rerouted to a transient data queue. These include all DFHTD*nnnn* messages and certain DFHMEXM*nnnn* and DFHUS*nnnn* messages. A note to this effect is included in the descriptions of these messages.

For programming information about the XMEOUT user exit see the Message domain exit XMEOUT in the *CICS Customization Guide*.

Route codes

Console messages can be sent to a number of console types. The type of console to which a particular message is sent is determined by the MVS route code. Each route code maps onto one console type. The meanings of the route codes normally used by CICS are as follows:

Code	Meaning
1	Master console action – indicates a change in system status demanding operator action
2	Master console information – indicates a change in system status (system default)
3	Tape pool status or other tape related information
4	Direct access pool status or other related information
5	Tape library information
6	Disk library information
7	Unit record pool information

8 Teleprocessing control status

9 System security checking

Note: This route code suppresses the operator's reply on the screen and on SYSLOG

10 System error or maintenance information

11 Programmer information for the MVS log

Unless otherwise stated, console messages have the route codes '2' and '11'.

Message editing

You can use the message editing utility to change the text or language of those CICS messages that are issued by the message domain.

Messages that cannot be changed using the utility include a note to this effect before the message destination. See the *CICS Operations and Utilities Guide* for more information about the message editing utility.

Console message reformatting

The "console message handling facility" is an optional feature of the CICS subsystem that can affect the appearance of CICS messages displayed on an MVS console. It is effective when you specify FORMATMSG=YES as an initialization parameter for the CICS subsystem, as described in the *CICS Transaction Server for z/OS Installation Guide*.

Terminal identifiers

Some messages include a terminal identifier (*termid*) in the message text. This is normally shown as a 4-character identifier. However, when CICS cannot completely identify a terminal – for example, when intersystem communication is taking place, the terminal identifier is prefixed by the application identification (*applid*) of the system owning the terminal.

Abend code inserts

The transaction abend code insert (*abcode*) in some CICS messages is displayed as *'????'* when neither the EXEC CICS ABEND request nor the DFHPC TYPE=ABEND macro request specifies an abend code.

Dumps

A dump is generally available for printing when a CICS system abend or abnormal termination occurs, provided the relevant data set has been specified. The dump can be used for problem determination.

Terminology

The terms "abnormally terminates" and "abnormal termination" are frequently used in a general sense to relate, as applicable, to one of the following:

- The termination of CICS as a result of an MVS ABEND macro. (The term "abend" may also be used.)
- The termination of a transaction (task) as a result of a CICS transaction ABEND macro.

Katakana terminal devices

Old-style Katakana terminals that support only single-byte character sets (SBCS) cannot display lower-case Western characters. Therefore, because of the requirement on CICS to issue certain messages in mixed-case, CICS cannot support display or terminal devices that are restricted to the SBCS Katakana part only of code page 930.

MVS user abend codes

DFH messages which accompany a CICS system, utility, or subtask abend have an associated MVS user abend code. Where possible, the value of this code is the numeric part of the corresponding DFH message. Thus DFH0305 has an 0305 user abend code. If an MVS abend code is issued but not the associated CICS message, the problem probably does not originate with CICS. See the description of the MVS abend code in the MVS *System Codes* manual for further information.

The highest possible value of an MVS user abend code is 4095, therefore any DFH message with a number higher than 4095 has an MVS user abend code that does not follow the above convention. The following are lists of the abend codes for messages with numbers above 4095, in order of abend code, and in order of message number.

Ordered by abend code

- 0108 DFH5263
- 0121 DFH5100
- 0123 DFH5175
- 0125 DFH5180
- 0126 DFH5184
- 0127 DFH5148
- 0147 DFH5721
- 0148 DFH5722
- 0149 DFH5723
- 0150 DFHER5724
- 0151 DFHER5725
- 0152 DFH5754
- 0161 DFHAK5802
- 0162 DFHAK5803
- 0170 DFHPS5394
- 0184 DFHJC4534
- 0185 DFHJC4530
- 0190 DFHXG6450
- 0191 DFHXG6451
- 0192 DFHXG6452
- 0193 DFHXG6453
- 0194 DFHXG6454
- 0195 DFHXG6440
- 0196 DFHXG6441
- 0197 DFHXG6442

- 0198 DFHXG6443
- 0200 DFHXA6540
- 0201 DFHXA6541
- 0202 DFHXG6444
- 0203 DFHXG6430
- 0204 DFHXA6530
- 0205 DFHXG6439
- 0206 DFHXG6415
- 0207 DFHXA6523
- 0209 DFHXG6427
- 0210 DFHXA6528
- 0211 DFH6529
- 0213 DFHXG6524
- 0214 DFHXA6580
- 0220 DFHXO6700
- 0221 DFHXO6704
- 0222 DFHXO6702
- 0223 DFHXO6703
- 0224 DFHXO6720

Ordered by message identifier

- DFHAK5802 0161
- DFHAK5803 0162
- DFHER5724 0150
- DFHER5725 0151
- DFHJC4530 0185
- DFHJC4534 0184
- DFHPS5394 0170
- DFHXA6523 0207
- DFHXA6528 0210
- DFHXA6530 0204
- DFHXA6540 0200
- DFHXA6541 0201
- DFHXA6580 0214
- DFHXG6415 0206
- DFHXG6427 0209
- DFHXG6430 0203
- DFHXG6439 0205
- DFHXG6440 0195
- DFHXG6441 0196
- DFHXG6442 0197
- DFHXG6443 0198
- DFHXG6444 0202
- DFHXG6450 0190
- DFHXG6451 0191

- DFHXG6452 0192
- DFHXG6453 0193
- DFHXG6454 0194
- DFHXG6524 0213
- DFHXO6700 0220
- DFHXO6702 0222
- DFHXO6703 0223
- DFHXO6704 0221
- DFHXO6720 0224
- DFH5100 0121
- DFH5148 0127
- DFH5175 0123
- DFH5180 0125
- DFH5184 0126
- DFH5263 0108
- DFH5721 0147
- DFH5722 0148
- DFH5723 0149
- DFH5754 0152
- DFH6529 0211

Note:

1. All messages which appear in the JES job log are prefixed by a time stamp and job number. Because of this, some messages will have their message text truncated. If the full message text is required, consult the MVS log as all messages in the JES log are duplicated in the MVS system log.
2. User abend 0225 is internal to CICS. It is issued by DFHDTES when, during backout, an entry in a hash table has been marked empty where it should not be possible. This causes the CICS region to be abnormally terminated. If this abend occurs, you will need help to resolve the problem.

DFHNCnnnn messages

DFHNC0101I Named counter server initialization is in progress.

Explanation: The named counter sequence number server program has started execution.

System action: Initialization continues.

User response: None.

Module: DFHNCMN

Destination: Console and SYSPRINT

DFHNC0102I Named counter server for pool *poolname* is now active.

Explanation: The named counter sequence number server for the named pool has completed initialization and is now ready to accept connections.

System action: The server waits for connection requests or operator commands.

User response: None.

Module: DFHNCMN

Destination: Console and SYSPRINT

DFHNC0103 Named counter server initialization failed because the POOLNAME parameter was not specified.

Explanation: The named counter sequence number server program needs to know the name of the associated named counter pool in order to complete initialization, but no pool name was specified in the SYSIN or PARM field parameters.

System action: The server is terminated.

User response: Ensure that the parameter **POOLNAME=***name* is specified either in the SYSIN parameters or in the PARM field of the JCL for the server.

Module: DFHNCMN

Destination: Console and SYSPRINT

DFHNC0104 Named counter server initialization failed because program DFHNCMN is not APF authorized.

Explanation: The named counter sequence number server main program DFHNCMN cannot complete initialization because it is not running with APF authorization.

System action: The server is terminated.

User response: Ensure that the named counter sequence number server program DFHNCMN is loaded from an APF authorized library and has been link-edited with the option AC(1).

Module: DFHNCMN

Destination: Console and SYSPRINT

DFHNC0111I Named counter server for pool *poolname* **is terminating.**

Explanation: The named counter sequence number server has started termination processing, so no further requests will be processed.

System action: Termination continues.

User response: None.

Module: DFHNCMN

Destination: Console and SYSPRINT

DFHNC0112I Named counter server has terminated, return code *retcode***, reason code** *rsncode***.**

Explanation: The named counter sequence number server has completed termination processing. For normal termination, the return code and reason code are both zero. If the termination was caused by an error, the return code will be 8 and the reason code will be the number of the previous DFHNCnnnn message giving the reason for termination.

System action: The named counter sequence number server program returns control (via the AXM termination routines) to MVS for job step termination.

User response: None.

Module: DFHNCMN

Destination: Console and SYSPRINT

DFHNC0113 Named counter server completion code is *cmpcode***, reason code** *rsncode***.**

Explanation: The named counter sequence number server has terminated after intercepting an abnormal termination (ABEND) request. If the completion code is a system completion code, it is shown as three hexadecimal digits, otherwise it is shown as four decimal digits for a user completion code. Any associated reason code is shown as a four byte hexadecimal value, which will be zero if no reason code was provided.

System action: The named counter sequence number server program returns control (via the AXM termination routines) to MVS for job step termination.

User response: None.

Module: DFHNCMN

Destination: Console and SYSPRINT

DFHNC0121I Automatic restart support is not available because &SYSCLONE may not be unique within the sysplex.

Explanation: The server attempted to generate a default ARM element identifier to use for automatic restart registration, using the one or two character &SYSCLONE value to identify the MVS system. Normally, MVS verifies during start-up that &SYSCLONE is unique within the sysplex. However, the server is running on a level of MVS where this check is optional and has not been performed, so the server is unable to generate a unique element identifier.

System action: The server is terminated.

User response: Servers should not normally be run on a level of MVS which does not enforce unique &SYSCLONE values. However, the problem can be bypassed by specifying an ARM element name explicitly on the server ARMELEMENT parameter.

Module: DFHNCRS

Destination: Console and SYSPRINT

DFHNC0122 IXCARM REQUEST=*reqtype* **failed, return code** *retcode***, reason code** *rsncode***.**

Explanation: A request to the MVS automatic restart manager (ARM) gave an unexpected return code. The return code and reason code are shown in hexadecimal notation.

System action: The server is terminated.

User response: See the IXCARM macro in *z/OS MVS Programming: Sysplex Services Guide* for the explanation of the return and reason code.

Module: DFHNCRS

Destination: Console and SYSPRINT

DFHNC0123 IXCARM REQUEST=*reqtype* **failed, return code** *retcode***, reason code** *rsncode***.**

Explanation: Automatic restart support is not available. The MVS automatic restart manager (ARM) gave a return code and reason code which indicates that ARM services are not available, but the reason could possibly be intentional or unavoidable, so the server is being allowed to continue execution without automatic restart support. The return code and reason code are shown in hexadecimal notation.

System action: The server continues initialisation without automatic restart support.

User response: See the IXCARM macro in *OS/390 MVS Programming Sysplex Services Reference* (GC28-1772) for the explanation of the return and reason code.

Module: DFHNCRS

Destination: Console and SYSPRINT

DFHNC0201I Processing *type parameters*

Explanation: The named counter sequence number server parameter processing routine is interpreting the specified parameter string. The first word gives the type of parameter (SYSIN/PARM/SET/DISPLAY/PRINT) and the rest is the specified parameters optionally followed by descriptive comment text after one or more spaces. If the parameters start with an asterisk or a space, the whole line is taken as descriptive comments.

System action: Any specified parameters will be processed.

User response: None.

Module: DFHNCPR

Destination: Console and SYSPRINT

DFHNC0202 Unknown parameter keyword: *keyword*

Explanation: This parameter keyword did not match any of the defined parameter keywords for the named counter sequence number server.

System action: Processing of the current parameter string (command parameter list, PARM field or SYSIN input line) is terminated. For an initialization parameter specified in SYSIN or the PARM field, a return code is set which will cause the server to terminate when initialization parameter processing is complete.

User response: Correct the parameter keyword (or remove the incorrect parameter) and reenter the command or restart the server.

Module: DFHNCPR

Destination: Console and SYSPRINT

DFHNC0203 Value *value* **for parameter** *keyword* **is incorrect. It must be a name of up to** *maxlength* **characters.**

Explanation: The value of this named counter sequence number server parameter should have been specified as a name containing not more than the indicated number of characters.

System action: Processing of the current parameter string (command parameter list, PARM field or SYSIN input line) is terminated. For an initialization parameter specified in SYSIN or the PARM field, a return code is set which will cause the server to terminate when initialization parameter processing is complete.

User response: Correct the parameter value and reenter the command or restart the server.

Module: DFHNCPR

Destination: Console and SYSPRINT

DFHNC0204 Value *value* **for parameter** *keyword* **is incorrect. It must be a decimal number.**

Explanation: The value of this named counter sequence number server parameter should have been specified as a decimal number but was not in a valid format. (Numeric parameters can optionally be followed by the letter K, M, G or T to denote the appropriate powers of 1024).

System action: Processing of the current parameter string (command parameter list, PARM field or SYSIN input line) is terminated. For an initialization parameter specified in SYSIN or the PARM field, a return code is set which will cause the server to terminate when initialization parameter processing is complete.

User response: Correct the parameter value and reenter the command or restart the server.

Module: DFHNCPR

Destination: Console and SYSPRINT

DFHNC0205 Value *value* **for parameter** *keyword* **is greater than the maximum allowed value** *maximum***.**

Explanation: The value of this named counter sequence number server parameter exceeded the maximum allowed value, given in the message. This message also occurs if the numeric part of a decimal value exceeds the maximum unsigned 32-bit integer (4294967295) even if a larger value is allowed to be specified by using a suffix "K", "M", "G" or "T".

System action: Processing of the current parameter string (command parameter list, PARM field or SYSIN input line) is terminated. For an initialization parameter specified in SYSIN or the PARM field, a return code is set which will cause the server to terminate when initialization parameter processing is complete.

User response: Correct the parameter value and reenter the command or restart the server.

Module: DFHNCPR

Destination: Console and SYSPRINT

DFHNC0206 Value *value* for parameter *keyword* is less than the minimum allowed value *minimum*.

Explanation: The value of this named counter sequence number server parameter was less than the minimum allowed value, given in the message.

System action: Processing of the current parameter string (command parameter list, PARM field or SYSIN input line) is terminated. For an initialization parameter specified in SYSIN or the PARM field, a return code is set which will cause the server to terminate when initialization parameter processing is complete.

User response: Correct the parameter value and reenter the command or restart the server.

Module: DFHNCPR

Destination: Console and SYSPRINT

DFHNC0207 Value *value* for parameter *keyword* is incorrect. It should be a time hh:mm:ss or hh:mm or a number of seconds.

Explanation: The value of this named counter sequence number server parameter did not conform to the correct syntax for a time interval.

System action: Processing of the current parameter string (command parameter list, PARM field or SYSIN input line) is terminated. For an initialization parameter specified in SYSIN or the PARM field, a return code is set which will cause the server to terminate when initialization parameter processing is complete.

User response: Correct the parameter value and reenter the command or restart the server.

Module: DFHNCPR

Destination: Console and SYSPRINT

DFHNC0208 Parameter keyword *keyword* is not supported for *command*.

Explanation: A named counter sequence number server parameter keyword was specified in a context where it is not valid, such as an attempt to **SET** a parameter which can only be specified at initialization time, or to specify at initialization time a parameter which is only valid on **DISPLAY**.

System action: Processing of the current parameter string (command parameter list, PARM field or SYSIN input line) is terminated. For an initialization parameter specified in SYSIN or the PARM field, a return code is set which will cause the server to terminate when initialization parameter processing is complete.

User response: If the error occurred at initialization, remove the incorrect parameter and restart the server. If it occurred on a server command, check that the command and parameter were correctly entered.

Module: DFHNCPR

Destination: Console and SYSPRINT

DFHNC0209 Parameter text contains invalid character: *text*

Explanation: The named counter sequence number server parameter processing routine found some unexpected text when attempting to process parameters.

System action: Processing of the current parameter string (command parameter list, PARM field or SYSIN input line) is terminated. For an initialization parameter specified in SYSIN or the PARM field, a return code is set which will cause the server to terminate when initialization parameter processing is complete.

User response: Correct the parameters (or remove the incorrect parameter) and reenter the command or restart the server.

Module: DFHNCPR

Destination: Console and SYSPRINT

DFHNC0210 Parameter keyword *keyword* should not have a value for *command*.

Explanation: A named counter sequence number server parameter keyword was specified in the form *keyword=value* in a context where it was not expected, for example on a **DISPLAY** command.

System action: Processing of the current line of parameters is terminated.

User response: Reenter the command without specifying a value for the parameter to be displayed.

Module: DFHNCPR

Destination: Console and SYSPRINT

DFHNC0211I Parameter value: *keyword=value*

Explanation: This message is issued to show the current value of a named counter sequence number server parameter setting in response to a **DISPLAY** or **PRINT** command.

System action: Processing continues normally.

User response: None.

Module: DFHNCPR

Destination: Console and SYSPRINT

DFHNC0212 Value *value* for parameter *keyword* is incorrect. It must be one of *validlist*.

Explanation: The value of this named counter sequence number server parameter was not recognized. It should have been specified as one of the indicated list of values.

System action: Processing of the current parameter string (command parameter list, PARM field or SYSIN input line) is terminated. For an initialization parameter specified in SYSIN or the PARM field, a return code is set which will cause the server to terminate when initialization parameter processing is complete.

User response: Correct the parameter value and reenter the command or restart the server.

Module: DFHNCPR

Destination: Console and SYSPRINT

DFHNC0213 Value for parameter *keyword* is missing. The correct form is keyword=value.

Explanation: A parameter keyword was specified without an associated parameter value on a named counter sequence number server **SET** command or in a SYSIN or PARM parameter string. Note that the only character which should appear between the parameter keyword and its intended value is the equals sign, without any extra spaces.

System action: Processing of the current parameter string (command parameter list, PARM field or SYSIN input line) is terminated. For an initialization parameter specified in SYSIN or the PARM field, a return code is set which will cause the server to terminate when initialization parameter processing is complete.

User response: Reenter the parameter specification in the correct form *keyword=value*.

Module: DFHNCPR

Destination: Console and SYSPRINT

DFHNC0301I Console operator *consname* issued command: *command*

Explanation: A named counter sequence number server operator command has been issued via the MVS **MODIFY** or **STOP** command. This message identifies the console name (or TSO userid) from which the command was issued and the text of the command.

System action: Processing continues.

User response: None.

Module: DFHNCOP

Destination: SYSPRINT

DFHNC0302I *command* command ignored because no valid parameters were given.

Explanation: A named counter sequence number server command was issued which had no valid parameters on it but was otherwise syntactically valid. The command has had no effect.

System action: Processing continues normally.

User response: Ensure that the command was entered correctly.

Module: DFHNCOP

Destination: Console and SYSPRINT

DFHNC0303I *command* command has been processed.

Explanation: A named counter sequence number server command has been processed successfully.

System action: Processing continues.

User response: None.

Module: DFHNCOP

Destination: Console and SYSPRINT

DFHNC0304I STOP command is waiting for connections to be closed. Number of active connections = *connections*.

Explanation: A named counter sequence number server **STOP** command has been issued (either via an MVS **STOP** command or via an MVS **MODIFY** command with the text **STOP**) but there are still active connections to the server, so the **STOP** command has not yet taken effect.

System action: The server rejects any further attempts to establish new connections, but continues processing requests for existing connections. Each time a connection is terminated, this message will be repeated as long as there are more active connections.

User response: Further information about the connections which are still active may be obtained using the command **DISPLAY CONNECTIONS**.

If the server needs to be shut down without waiting for connections to be closed, issue the server **CANCEL** command. Note that this will immediately terminate any active connections, causing any further requests for that server to be given a SYSIDERR indication. (The MVS **CANCEL** command can also be used, but should preferably be avoided because it will prevent the server from producing its normal closedown statistics and reports).

Note that if a CICS region is abnormally terminated while server connect or disconnect processing is in progress, or is terminated without going through end of task processing (for example using the **FORCE** command) there is a slight chance that the server will

not be notified that the connection has been terminated. In this case the server will not be able to be closed down with the server **STOP** command, but only with the server **CANCEL** command.

Module: DFHNCOP

Destination: Console and SYSPRINT

DFHNC0305I STOP command has been processed.

Explanation: Processing of a named counter sequence number server **STOP** command has now been successfully completed. This means that there are no longer any active connections and the server is ready to close down.

System action: The named counter sequence number server starts termination processing.

User response: None.

Module: DFHNCOP

Destination: Console and SYSPRINT

DFHNC0306 Named counter server does not support this command: *command*

Explanation: An operator command was addressed to the named counter sequence number server using the MVS **MODIFY** command, but the first word of the **MODIFY** parameter text is not a recognized server command (**SET**, **DISPLAY**, **PRINT**, **STOP**, **CANCEL** or an accepted abbreviation for one of these).

System action: The command is ignored.

User response: Correct and reenter the command.

Module: DFHNCOP

Destination: Console and SYSPRINT

DFHNC0307I CANCEL *parm* **command has been processed. Number of active connections =** *connections***.**

Explanation: A named counter sequence number server **CANCEL** command has been issued, either from an operator console or internally by the server in response to a severe error such as coupling facility failure. This message includes any restart parameter specified on the command and the number of active connections which may be affected by this command.

System action: The server terminates immediately, without waiting to close connections.

User response: None.

Module: DFHNCOP

Destination: Console and SYSPRINT

DFHNC0308 Named counter server does not support CICS commands. To close it down, you can use the STOP command.

Explanation: An operator command which appears to be a CICS command (a four-character transaction code of the form 'CExx') was addressed to the named counter sequence number server using the MVS **MODIFY** command.

System action: The command is ignored.

User response: Correct and reenter the command. If the intention is to close down the server, use the server **STOP** or **CANCEL** command.

Module: DFHNCOP

Destination: Console and SYSPRINT

DFHNC0309 Parameter *parm* **on CANCEL command is incorrect. The only valid parameters are RESTART=YES or RESTART=NO.**

Explanation: A named counter sequence number server **CANCEL** command was issued with a parameter which did not match the valid parameter keywords.

System action: The command is ignored.

User response: Correct and reenter the command.

Module: DFHNCOP

Destination: Console and SYSPRINT

DFHNC0310 Parameter *parm* **on STOP command is incorrect. No parameters should be specified.**

Explanation: A named counter sequence number server **STOP** command was issued with parameters, but the **STOP** command does not support any parameters.

System action: The command is ignored.

User response: Correct and reenter the command.

Module: DFHNCOP

Destination: Console and SYSPRINT

DFHNC0351I Connection: Job *jobname* **Applid** *applid* **Idle** *idletime*

Explanation: This describes a single connection from a CICS region to the named counter sequence number server, in response to the server command **DISPLAY CONNECTIONS** or **PRINT CONNECTIONS**. The information shows the job name, the generic APPLID and the time in hours, minutes and seconds since the most recent request was issued using the connection.

System action: A message in this form is issued for each active connection to the current server, then

message DFHNC0352I is issued to show the total number of active connections.

User response: None.

Module: DFHNCCN

Destination: Console and SYSPRINT

DFHNC0352I Total connections to this server: *connections*.

Explanation: This describes the total number of active connections from CICS regions to the named counter sequence number server, in response to the server command **DISPLAY CONNECTIONS** or **PRINT CONNECTIONS**.

System action: Processing continues.

User response: None.

Module: DFHNCCN

Destination: Console and SYSPRINT

DFHNC0361I Counter names: *counter1 counter2*

Explanation: This message lists one or two counter names in response to the named counter sequence number server command **DISPLAY COUNTERS** or **PRINT COUNTERS**.

System action: This message is issued as many times as is necessary to list all current counter names, then message DFHNC0362I is issued to show the total number of counters.

User response: None.

Module: DFHNCRQ

Destination: Console and SYSPRINT

DFHNC0362I The total number of named counters in the pool is *counters*.

Explanation: This describes the total number of counters within the the pool, in response to the named counter sequence number server command **DISPLAY COUNTERS** or **PRINT COUNTERS**.

System action: Processing continues.

User response: None.

Module: DFHNCRQ

Destination: Console and SYSPRINT

DFHNC0363I Details for named counter *counter*

Explanation: This message shows counter details in response to the named counter sequence number server command **DISPLAY COUNTER=***name* or **PRINT COUNTER=***name*.

The detailed message layout is as follows

```
9'.
Current value  Minimum value  Maximum value
          n              n              n
Options: x y
```

System action: Processing continues.

User response: The output shows the current counter value, the minimum counter value that can be assigned and the maximum counter that can be assigned. If the maximum value has just been assigned, the counter will be at its limit value, which is one greater than the maximum value that can be assigned.

Module: DFHNCRQ

Destination: Console and SYSPRINT

DFHNC0364 No named counter was found matching *counter*.

Explanation: A counter name specified on the named counter sequence number server command **DISPLAY COUNTER=***name* or **PRINT COUNTER=***name* did not match any existing counter in the pool.

System action: The command is ignored.

User response: Ensure that the counter name was entered correctly, and that the command was addressed to the correct pool server.

Module: DFHNCRQ

Destination: Console and SYSPRINT

DFHNC0365I The number of named counters in the pool matching *counter* **is** *counters*.

Explanation: This indicates the number of matching named counters within the pool for which details were displayed in response to the named counter sequence number server command **DISPLAY COUNTERS** or **PRINT COUNTERS** where the counter name contained one or more wild card characters.

System action: Processing continues.

User response: None.

Module: DFHNCRQ

Destination: Console and SYSPRINT

DFHNC0401I Connected to CF structure *strname*.

Explanation: The named counter sequence number server has successfully established a connection to the coupling facility list structure for the named counter pool, using the IXLCONN macro.

System action: Processing continues.

User response: None.

Module: DFHNCCF

Destination: Console and SYSPRINT

DFHNC0402I CF structure *strname* was allocated by this connection.

Explanation: The named counter pool list structure did not previously exist and was allocated as part of the connection process.

System action: List structure initialization will be performed if necessary.

User response: None.

Module: DFHNCCF

Destination: Console and SYSPRINT

DFHNC0403 Connection to CF structure *strname* failed, IXLCONN return code *retcode*, reason code *rsncode*.

Explanation: The IXLCONN macro to connect the named counter sequence number server to its pool list structure failed.

System action: The named counter sequence number server is terminated.

User response: See the documentation of the IXLCONN macro in *z/OS MVS Programming: Assembler Services Reference, Volume 1* for the explanation of the return and reason code. If the reason code is of the form `xxxx0C08`, indicating structure allocation failure, this message will be followed by message DFHNC0409 giving the facility reason code for each coupling facility in which allocation was attempted.

Module: DFHNCCF

Destination: Console and SYSPRINT

DFHNC0404 CF structure *strname* cannot be used because it has been allocated with attribute *attribute*.

Explanation: The named counter sequence number server has successfully connected to its pool list structure but has found that the structure has been allocated using an IXLCONN structure attribute keyword which is not supported by the server.

System action: The server is terminated.

User response: This probably indicates that the structure has been allocated or modified by some program other than the named counter sequence number server program. In this case, the incorrect structure should be deleted (using the MVS **SETXCF FORCE** command) so that it will be reallocated correctly when the server is restarted.

Module: DFHNCCF

Destination: Console and SYSPRINT

DFHNC0406 Initialization failed for CF structure *strname* with response *response*.

Explanation: The named counter sequence number server processing to initialize the pool list structure failed with an abnormal internal response code.

System action: The server is terminated.

User response: If the response code is 6 (I/O error), it indicates that an IXLLIST macro gave an abnormal return code, in which case a previous DFHNC0441 message will have been issued giving the IXLLIST return code and reason code. If this response code is any other value, this indicates that the list structure is in a state which should not occur, probably indicating that it was allocated or modified by a program other than the named counter sequence number server. In this case the structure may need to be deleted (using the MVS **SETXCF FORCE** command) so that it will be reallocated when the server is restarted.

Module: DFHNCCF

Destination: Console and SYSPRINT

DFHNC0407 CF structure *strname* is not available for shared use.

Explanation: The named counter sequence number pool is currently locked for exclusive use by some other job such as a pool unload or reload job. (This serialization uses an MVS ENQ with scope SYSTEMS, major name 'SYSZDFH' and minor name equal to the structure name, 'DFHNCLS_poolname').

System action: The server is terminated.

User response: Check whether a pool maintenance job is currently running. If it is, wait until it has finished before trying to start the server again. You can find out what jobs are currently using the pool using this MVS command

```
DISPLAY GRS,RES=(SYSZDFH,'DFHNCLS_poolname')
```

Note that for this command the pool name must be exactly eight characters, padded with trailing spaces if necessary.

Module: DFHNCCF

Destination: Console and SYSPRINT

DFHNC0408 CF structure *strname* is not available for exclusive use.

Explanation: The current named counter sequence number unload or reload job requires exclusive use of the pool, but some other job is running which already has shared or exclusive use of the pool. (This serialization uses an MVS ENQ with scope SYSTEMS, major name 'SYSZDFH' and minor name equal to the structure name, 'DFHNCLS_poolname').

System action: The server is terminated.

User response: Check whether a named counter sequence number server or maintenance job is currently running. If it is, wait until it has finished before trying to run the current job again. You can find out what jobs are currently using the pool using this MVS command

```
DISPLAY GRS,RES=(SYSZDFH,'DFHNCLS_poolname')
```

Note that for this command the pool name must be exactly eight characters, padded with trailing spaces if necessary.

Module: DFHNCCF

Destination: Console and SYSPRINT

DFHNC0409 CF structure *strname* **could not be allocated in facility** *cfname***, reason code** *rsncode***.**

Explanation: If a previous named counter sequence number server message DFHNC0403 indicated an IXLCONN failure because the structure could not be allocated, this message is issued for each coupling facility in which allocation was attempted to show the facility reason code indicating why structure allocation failed. If the reason code is known to the server, the name of the reason code is given (as defined in the MVS macro IXLYCONA, but without the 'ConaRsn' prefix), otherwise its decimal value is shown.

If the response indicates InvalidStructureSize, this means that the initial list structure size (specified on the server **POOLSIZE** parameter or in the CFRM policy **INITSIZE** parameter) is not large enough to contain the required structure control information. The size of the control information is affected by the maximum structure size specified in the CFRM policy.

System action: The server is terminated.

User response: If further details are required, see the descriptions of the reason codes in the source of the MVS macro IXLYCONA which maps the connect answer area.

If the response was InvalidStructureSize, increase the initial structure size specification in the server **POOLSIZE** parameter or the CFRM policy **INITSIZE** parameter to ensure that there is enough space for data in addition to the structure control information. Also, check that the maximum structure size specified in the CFRM policy is not unnecessarily large. See the CICS *System Definition Guide* for more information on how to estimate pool sizes.

Module: DFHNCCF

Destination: Console and SYSPRINT

DFHNC0411I CF structure *strname* **now has** *percentage***% of entries in use.**

Explanation: This message is issued by the named counter sequence number server when the percentage of list entries in use within the list structure increases past certain set threshold levels, or when it decreases past a threshold level after previously being at a higher level. This message is also issued immediately after a structure alter request has completed in order to show how the percentage has been affected by changes in the structure size. The percentage is calculated using information that is returned by successful coupling facility access requests, so if the message was triggered by structure alter completion and the current server has not processed any successful requests recently, the information may not be accurate.

System action: The warning threshold is increased to the next higher level (normally 5% higher if less than 95%, otherwise 1% higher), or decreased to the previous lower level depending on whether the usage is increasing or decreasing.

User response: Note that the structure may soon become full, preventing new counters from being created. If the structure is currently allocated at less than its maximum size and the coupling facility has enough free space, the size of the structure can be increased dynamically using the MVS **SETXCF** command with the **START,ALTER** option, and any active servers will be able to use the increased space immediately.

Module: DFHNCCF

Destination: Console and SYSPRINT

DFHNC0417I Alter request completed normally for CF structure *strname***.**

Explanation: The named counter sequence number server has been notified by the system that a structure alter request has completed normally.

System action: New values for the structure size and number of entries are stored. This message is followed by message DFHNC0411 to indicate the new usage percentage.

User response: None.

Module: DFHNCCF

Destination: Console and SYSPRINT

DFHNC0418I Alter request ended abnormally for CF structure *strname* **with status** *status***.**

Explanation: The named counter sequence number server has been notified by the system that a structure alter request has ended abnormally. The two bytes of status information in this message are taken from EEPLALTERENDSTATEFLAGS in the event exit parameter list (defined in the MVS macro IXLYEEPL).

System action: No action is taken as a result of this notification, but any problem which caused the alter request to fail may result in other related problems.

User response: If further information is required, look for MVS messages on the system log indicating the reason for the structure alter request failure. For further information about the status flags, see the source of the MVS macro IXLYEEPL.

Module: DFHNCCF

Destination: Console and SYSPRINT

DFHNC0419I Alter request ended normally for CF structure *strname* but target was not attained.

Explanation: The named counter sequence number server has been notified by the system that a structure alter request has ended normally but the target size was not attained.

System action: New values for the structure size and number of entries are stored. This message is followed by message DFHNC0411 to indicate the new usage percentage.

User response: None.

Module: DFHNCCF

Destination: Console and SYSPRINT

DFHNC0424 Connectivity has been lost to CF structure *strname*. The named counter server cannot continue.

Explanation: The named counter sequence number server has been notified by the system that connectivity has been lost to the coupling facility containing the pool list structure.

System action: The server issues an internal **CANCEL** command to terminate itself immediately.

User response: Restart the server when connectivity to the coupling facility from the current system has been reestablished. If connectivity is still available from other systems, CICS transactions which require access to the affected pool should be diverted to those systems if possible.

Module: DFHNCCF

Destination: Console and SYSPRINT

DFHNC0425 CF structure *strname* has failed. The named counter server cannot continue.

Explanation: The named counter sequence number server has been notified by the system that the named counter pool list structure has been lost due to coupling facility structure failure. All named counters in the pool have been lost.

System action: Each server for the affected pool issues an internal **CANCEL** command to terminate itself immediately.

User response: If another coupling facility is available and is included in the CFRM preference list for the failed structure, restart the servers to cause a fresh copy of the list structure to be allocated on the alternate coupling facility. If no other coupling facility is available, wait until the original coupling facility has been made available again before restarting the servers.

Module: DFHNCCF

Destination: Console and SYSPRINT

DFHNC0431I Access statistics for CF structure *strname*

Explanation: This message gives a summary of coupling facility access statistics. It is issued in response to a named counter sequence number server **DISPLAY** or **PRINT** command which includes the **CFSTATS** parameter, and may also be produced on the SYSPRINT file during interval statistics if the statistics options include print file output.

The detailed message layout is as follows

```
9'.
Requests: Create Get Set Delete Inquire Browse
               n   n   n      n       n      n
Responses: Asynch Unavail
                  n       n
Normal Not fnd Vers chk List chk Str Full I/O err
     n       n        n        n        n       n
```

System action: Processing continues.

User response: The statistics are described in detail in the DFHNCS4D data area. The individual fields have the following meanings

- Response counts

  Asynch
  Number of requests for which completion was asynchronous.

  Unavail
  Number of times requests were deferred because the structure was temporarily unavailable, for example because system-managed rebuild was in progress.

  Normal
  Number of normal responses.

  Not fnd
  The specified entry (table or item) was not found.

  Vers chk
  A version check failed for an entry being updated. This occurs when a duplicate name is found while creating a new entry, or when an assign request finds the counter has reached its limit, or when a compare

and swap type request (assign with increment, rewind or update) finds that the counter changed before the attempt to set the new value, in which case the request is retried until successful.

List chk
A list authority comparison failed. This should only be possible during server initialization.

Str full The list structure became full.

I/O err Some other error code was returned by IXLLIST.

Module: DFHNCCF

Destination: Console and SYSPRINT

DFHNC0432I Pool statistics for CF structure *strname*

Explanation: This message gives a summary of the usage statistics for the named counter pool list structure. It is issued in response to a named counter sequence number server **DISPLAY** or **PRINT** command which includes the **POOLSTATS** parameter, and may also be produced on the SYSPRINT file during interval statistics if the statistics options include print file output.

The detailed message layout is as follows

```
9'.
Structure: Size  Max size
             nK        nK
Entries: Total  In use  Max used  Free  Min free
             n       n         n     n          n
          100%      n%        n%    n%        n%
```

System action: Processing continues.

User response: The statistics are described in detail in the DFHNCS6D data area. Pool usage statistics are calculated from information returned by recent coupling facility requests, and are not always very accurate, especially if the pool has not been accessed recently by the current server.

The individual fields have the following meanings

- Structure

  Size Current allocated size of the list structure.

  Max size
  Maximum size to which this structure could be altered.

- Entries

  Total Total entries in the currently allocated structure (initially set at structure connection time and updated on completion of any structure alter request).

  In Use Number of entries currently in use.

  Max Used
  Maximum number in use (since last reset).

  Free Number of entries currently free (total minus used).

  Min Free
  Minimum number of free entries (since last reset).

Module: DFHNCCF

Destination: Console and SYSPRINT

DFHNC0441 CF structure *strname* **request failed, IXLLIST return code** *retcode*, **reason code** *rsncode*.

Explanation: A coupling facility access request issued by the named counter sequence number server using the IXLLIST macro gave an abnormal return code.

System action: The failing request is given a return code indicating a coupling facility access error.

User response: See the documentation of the IXLLIST macro in *z/OS MVS Programming: Sysplex Services Guide* for the explanation of the return and reason code.

Module: DFHNCCF

Destination: Console and SYSPRINT

DFHNC0442 CF structure *strname* **request failed, structure is full.**

Explanation: A coupling facility access request issued by the named counter sequence number server using the IXLLIST macro failed because there is no free entry to create a new named counter.

System action: The failing request is given a return code indicating that there is no space available in the pool. This message will not be issued for further failures until the the number of entries in use has fallen well below the warning threshold.

User response: Any named counters which are no longer in use should be deleted so that the space can be reused. If the structure is currently allocated at less than its maximum size and the coupling facility has enough free space, the size of the structure can be increased dynamically using the MVS **SETXCF** command with the **START,ALTER** option, and any active servers will be able to use the increased space immediately. However, if this action is possible it should normally have been taken in response to earlier warning message before the structure became full.

Module: DFHNCCF

Destination: Console and SYSPRINT

DFHNC0451 Purge for CF structure *strname* **failed, IXLPURGE return code** *retcode*, **reason code** *rsncode*.

Explanation: A named counter sequence number access request was terminated abnormally and the

server issued an IXLPURGE macro to ensure any active IXLLIST request was purged before releasing the I/O buffer, but the IXLPURGE macro gave a non-zero return code.

System action: The error is ignored because this only occurs when a request is already being terminated abnormally.

User response: See the documentation of the IXLPURGE macro in *z/OS MVS Programming: Sysplex Services Guide* for the explanation of the return and reason code.

Module: DFHNCCF

Destination: Console and SYSPRINT

DFHNC0461I Disconnected from CF structure *strname***.**

Explanation: The named counter sequence number server has successfully disconnected from the pool list structure (using the IXLDISC macro) during termination.

System action: Processing continues.

User response: None.

Module: DFHNCCF

Destination: Console and SYSPRINT

DFHNC0462 Disconnect from CF structure *strname* **failed, IXLDISC return code** *retcode***, reason code** *rsncode***.**

Explanation: The IXLDISC macro to disconnect the named counter sequence number server from its pool list structure failed.

System action: The error is ignored, as disconnection only occurs when the server is already terminating.

User response: See the documentation of the IXLDISC macro in *z/OS MVS Programming: Sysplex Services Guide* for the explanation of the return and reason code.

Module: DFHNCCF

Destination: Console and SYSPRINT

DFHNC0481I Waiting for structure *strname* **to become available.**

Explanation: The named counter sequence number server was unable to connect to its coupling facility structure because of an environmental error, such as the structure being unavailable, as described in a previous DFHNC0403 message. The server is now waiting for this problem to be fixed, and will retry the connection request when it is notified via the ENF facility that the specific structure may now be available or that some change has occurred in the status of general coupling facility resources.

System action: The server waits to be notified of a relevant event.

User response: No action is required, but the waiting server can optionally be terminated using the MVS **CANCEL** command if it is no longer required.

Module: DFHNCEN

Destination: Console and SYSPRINT

DFHNC0482I Retrying connection to structure *strname***.**

Explanation: The named counter sequence number server has been notified via ENF that its list structure may now be available or that a change has occurred in the status of some general coupling facility resources, so it is about to make another attempt to connect to the structure.

System action: The original IXLCONN request is retried.

User response: None.

Module: DFHNCEN

Destination: Console and SYSPRINT

DFHNC0491 ENFREQ ACTION=*action* **failed, return code** *retcode***.**

Explanation: An ENF request issued by the named counter sequence number server gave an unexpected return code.

System action: If this occurs on the ENFREQ ACTION=LISTEN request and the server is subsequently unable to connect to the list structure, the server will be terminated instead of waiting for the structure to become available.

User response: See the documentation of the ENFREQ macro in *z/OS MVS Programming: Assembler Services Reference, Volume 2* for the explanation of the return and reason code.

Module: DFHNCEN

Destination: Console and SYSPRINT

DFHNC0601I Starting statistics collection for interval since *lasttime***.**

Explanation: The named counter sequence number server is about to collect interval, end of day or closedown statistics. This message identifies the start of the time interval to which the statistics apply, which is either the time that the server was started up or the time of the last reset, which occurs whenever interval or end of day statistics are produced. The format of the timestamp is yyyy-mm-dd hh:mm:ss.

System action: The server proceeds with statistics collection.

User response: None.

Module: DFHNCST

Destination: SYSPRINT

DFHNC0602I Statistics collection completed, reset performed.

Explanation: Named counter sequence number server statistics have been collected and counters have been reset. This occurs for interval or end of day statistics.

System action: Processing continues.

User response: None.

Module: DFHNCST

Destination: SYSPRINT

DFHNC0603I Statistics collection completed.

Explanation: Named counter sequence number server statistics have been collected but counters have not been reset. This normally occurs at server closedown.

System action: Processing continues.

User response: None.

Module: DFHNCST

Destination: Console and SYSPRINT

DFHNC0604 Timer SET failed, return code *retcode*, **reason code** *rsncode*.

Explanation: The statistics subtask in the named counter sequence number server tried to set up a timer wait interval but failed.

System action: The interval statistics function is terminated with message DFHNC0606.

User response: Check the return code and reason code. A return code of 4 indicates an attempt to set up more than one concurrent timer interval, which indicates a logic error in the server. The reason code in this case is the MVS STIMERM identifier for the existing timer interval. A return code of 8 indicates that the MVS STIMERM macro failed, in which case the reason code indicates the return code received from STIMERM SET.

Module: DFHNCST

Destination: Console and SYSPRINT

DFHNC0605 Timer CANCEL failed, return code *retcode*, **reason code** *rsncode*.

Explanation: The statistics subtask in the named counter sequence number server tried to cancel a timer wait interval but failed.

System action: The interval statistics function is terminated with message DFHNC0606.

User response: Check the return code and reason code. A return code of 4 indicates an attempt to cancel a nonexistent timer interval, which indicates a logic error in the server. A return code of 8 indicates that the MVS STIMERM macro failed, in which case the reason code indicates the return code received from STIMERM CANCEL.

Module: DFHNCST

Destination: Console and SYSPRINT

DFHNC0606 Statistics collection function is no longer available.

Explanation: The statistics collection subtask in the named counter sequence number server was unable to continue processing and has terminated. The reason will have been indicated by an earlier message.

System action: The interval statistics subtask terminates and no further interval statistics or end of day statistics will be produced for this run of the server.

User response: See the earlier message indicating the reason for the termination of the subtask.

Module: DFHNCST

Destination: Console and SYSPRINT

DFHNC0610I Statistics written to SMF, return code was *retcode*.

Explanation: Named counter sequence number server statistics have been sent to SMF. The return code from the SMFEWTM macro is indicated in this message. A non-zero return code usually indicates that SMF recording was suppressed because of current SMF options or an installation exit.

System action: Processing continues.

User response: If the return code is non-zero but SMF statistics were expected to be successfully written, see the documentation of the SMFEWTM macro in *z/OS MVS System Management Facilities (SMF)* for more information about return codes.

Module: DFHNCST

Destination: SYSPRINT

DFHNC0701I Named counter pool *poolname* **is to be unloaded.**

Explanation: The named counter sequence number server program has been started with the **UNLOAD** option requesting that the named counter pool is unloaded to a sequential data set.

System action: The server starts to process the unload request. In this case, the rest of cross-memory server initialization is bypassed as it will not be needed.

User response: None.

Module: DFHNCUL

Destination: Console and SYSPRINT

DFHNC0702I Named counter pool *poolname* **has been successfully unloaded.**

Explanation: The named counter pool has been unloaded successfully.

System action: The server closes down normally.

User response: None.

Module: DFHNCUL

Destination: Console and SYSPRINT

DFHNC0703I Number of unloaded counters: *counters***. Blocks written** *blocks***.**

Explanation: This message provides additional information about the results of the named counter pool unload process, giving the number of named counters which were unloaded and the number of 4K data blocks written to the unloaded named counter pool data set.

System action: Server termination continues.

User response: None.

Module: DFHNCUL

Destination: Console and SYSPRINT

DFHNC0704 DFHNCUL data set for unload could not be opened.

Explanation: The data set to contain the unloaded named counter pool could not be opened.

System action: Unload processing is terminated and the server is closed down with message DFHNC0706.

User response: Check that the DFHNCUL DD statement is present in the JCL for the unload job.

Module: DFHNCUL

Destination: Console and SYSPRINT

DFHNC0705 Unload access to CF structure *strname* **failed with response** *response***.**

Explanation: The named counter pool unload process failed because of a problem with coupling facility access.

System action: Unload processing is terminated and the server is closed down with message DFHNC0706.

User response: If the response code is 6, this indicates that an unexpected IXLLIST error occurred, for which a previous message DFHNC0441 will have been issued. Any other response code indicates an internal logic error.

Module: DFHNCUL

Destination: Console and SYSPRINT

DFHNC0706 Unload for named counter pool *poolname* **was unsuccessful.**

Explanation: The named counter pool unload process failed. The reason will have been described in a previous message.

System action: The server is terminated.

User response: See the previous message giving the reason for the unload failure. Note that any unload data set produced in this case will be incomplete and will not be valid for reload purposes.

Module: DFHNCUL

Destination: Console and SYSPRINT

DFHNC0801I Named counter pool *poolname* **is to be reloaded.**

Explanation: The named counter sequence number server program has been started with the **RELOAD** option requesting that the named counter pool is to be reloaded from a sequential data set produced using the **UNLOAD** option.

System action: The server starts to process the reload request. In this case, the rest of cross-memory server initialization is bypassed as it will not be needed.

User response: None.

Module: DFHNCRL

Destination: Console and SYSPRINT

DFHNC0802I Named counter pool *poolname* **has been successfully reloaded.**

Explanation: The named counter pool has been reloaded successfully.

System action: The server closes down normally.

User response: None.

Module: DFHNCRL

Destination: Console and SYSPRINT

DFHNC0803I Counters reloaded: *counters***. Counters bypassed** *duplicates***. Blocks read:** *blocks***.**

Explanation: This message provides additional information about the results of the named counter pool reload process. Named counters on the unloaded data set are bypassed during reload processing if they already exist in the pool (for example as a result of a

previous reload which could not be completed due to lack of space).

System action: Server termination processing continues.

User response: None.

Module: DFHNCRL

Destination: Console and SYSPRINT

DFHNC0804 DFHNCRL data set for reload could not be opened.

Explanation: The data set containing the named counter pool to be reloaded could not be opened.

System action: Reload processing is terminated and the server is closed down with message DFHNC0808.

User response: Check that the DFHNCRL DD statement is present in the JCL for the reload job.

Module: DFHNCRL

Destination: Console and SYSPRINT

DFHNC0805 Reload access to CF structure *strname* **failed with response** *response***.**

Explanation: The named counter pool reload process failed because of a problem with coupling facility access.

System action: Reload processing is terminated and the server is closed down with message DFHNC0808.

User response: If the response code is 6, this indicates that an unexpected IXLLIST error occurred, for which a previous message DFHNC0441 will have been issued. Any other response code indicates an internal logic error.

Module: DFHNCRL

Destination: Console and SYSPRINT

DFHNC0806 Unexpected end of file encountered on reload data set.

Explanation: End of file was encountered on the data set containing the unloaded named counter pool before the logical end of the unloaded data was encountered.

System action: Reload processing is terminated and the server is closed down with message DFHNC0808.

User response: This indicates that the unloaded data set is incomplete, perhaps because the unload process was abnormally terminated.

Module: DFHNCRL

Destination: Console and SYSPRINT

DFHNC0807 Reload data set contains incorrect data near block *block***, offset** *offset***.**

Explanation: The named counter pool reload process failed because the unloaded pool data set is not in the correct format.

System action: Reload processing is terminated and the server is closed down with message DFHNC0808.

User response: Check that the correct data set is being used and that the unload process completed normally.

Module: DFHNCRL

Destination: Console and SYSPRINT

DFHNC0808 Reload for named counter pool *poolname* **was unsuccessful.**

Explanation: The named counter pool reload process could not be completed. The reason will have been described in a previous message.

System action: The program is terminated.

User response: See the previous message giving the reason for the reload failure.

Module: DFHNCRL

Destination: Console and SYSPRINT

DFHNC0809 Reload for CF structure *strname* **failed, structure is full.**

Explanation: Named counter pool reload processing failed because there are insufficient free entries or elements to store the new data in the structure.

System action: Reload processing is terminated and the server is closed down with message DFHNC0808.

User response: If the structure is currently allocated at less than its maximum size and the coupling facility has enough free space, the size of the structure can be increased dynamically using the MVS **SETXCF** command with the **START,ALTER** option, and the reload job can then be run again as soon as the alter request completes, in which case it will skip over duplicate information which has already been successfully reloaded. If the structure is at its maximum size, use the MVS **SETXCF FORCE** command to delete the structure, then increase the **SIZE** and **INITSIZE** parameters in the current CFRM policy and activate the updated policy, and rerun the reload job. The approximate amount of information which could not be reloaded can be estimated by comparing the numbers of blocks read and named counters reloaded, as described by following message DFHNC0803, with the corresponding numbers from message DFHNC0703 in the unload job.

Module: DFHNCRL

Destination: Console and SYSPRINT

DFHNC0911I R12=*prv* **RQ Entry** *function* **Name=***counter* **Job=***region* **Task=***task*

Explanation: Named counter sequence number server request tracing is active and information from the NCRQ parameter list is being traced on entry to the request module DFHNCRQ.

System action: Processing continues.

User response: This message is intended primarily for diagnostic use as advised by your IBM Support Center.

Module: DFHNCRQ

Destination: SYSPRINT

DFHNC0912I R12=*prv* **RQ Exit** *response* **Name=***counter* **Job=***region* **Task=***task*

Explanation: Named counter sequence number server request tracing is active and information from the NCRQ parameter list is being traced on exit from the request module DFHNCRQ.

System action: Processing continues.

User response: This message is intended primarily for diagnostic use as advised by your IBM Support Center.

Module: DFHNCRQ

Destination: SYSPRINT

DFHNC0913I R12=*prv* **RQ** *parameter* **Hex=***hex* **Dec=***decimal*

Explanation: Named counter sequence number server request tracing is active and a parameter or result value from the NCRQ parameter list is being traced in hexadecimal and decimal notation by the request module DFHNCRQ.

System action: Processing continues.

User response: This message is intended primarily for diagnostic use as advised by your IBM Support Center.

Module: DFHNCRQ

Destination: SYSPRINT

DFHNC0914I R12=*prv* **RQ Options** *options*

Explanation: Named counter sequence number server request tracing is active and an options parameter or result value from the NCRQ parameter list is being traced by the request module DFHNCRQ.

System action: Processing continues.

User response: This message is intended primarily for diagnostic use as advised by your IBM Support Center.

Module: DFHNCRQ

Destination: SYSPRINT

DFHNC0941I R12=*prv* **CF Entry** *request* **Name=***counter* **R1=***parmlst*

Explanation: Named counter sequence number server tracing of coupling facility accesses is active and information from the request interface parameter list is being traced on entry to the coupling facility interface module DFHNCCF.

- CF interface requests

  INI Initialize server connection

  CRE Create counter

  GET Assign and increment counter

  SET Set counter to a new value

  DEL Delete counter

  KEQ Inquire on single counter

  KGE Inquire browse

System action: Processing continues.

User response: This message is intended primarily for diagnostic use as advised by your IBM Support Center.

Module: DFHNCCF

Destination: SYSPRINT

DFHNC0942I R12=*prv* **CF IXLLIST REQUEST=***request* **REASON=***rsncode*

Explanation: Named counter sequence number server tracing for coupling facility accesses is active and the result from an IXLLIST macro is being traced. The information traced includes an abbreviation of the type of request being performed and the reason code returned by the macro.

System action: Processing continues.

User response: This message is intended primarily for diagnostic use as advised by your IBM Support Center.

Module: DFHNCCF

Destination: SYSPRINT

DFHNC0943I R12=*prv* **CF IXLLIST** *keyword=value*

Explanation: Named counter sequence number server tracing for coupling facility accesses is active and an IXLLIST parameter or result value (key, authority value, version or adjunct area) is being traced in hex and (if relevant) character format.

System action: Processing continues.

User response: This message is intended primarily for diagnostic use as advised by your IBM Support Center.

Module: DFHNCCF

Destination: SYSPRINT

DFHNC0944I R12=*prv* CF Exit *response* Name=*counter*

Explanation: Named counter sequence number server tracing for coupling facility accesses is active and information from the request interface parameter list is being traced on exit from the CF request module DFHNCCF.

- Response codes

  OK Normal completion.

  LEN ERROR
  Data to be read exceeds buffer length.

  NOT FOUND
  No entry was found with the given key.

  DUPLICATE
  Add was rejected because counter name already exists.

  WRONG VER
  Change was rejected because version did not match.

  AUTH FAIL
  List authority value did not match.

  I/O ERROR
  IXLLIST error other than any of the above.

System action: Processing continues.

User response: This message is intended primarily for diagnostic use as advised by your IBM Support Center.

Module: DFHNCCF

Destination: SYSPRINT

DFHNC0999I Trace *text*

Explanation: This message is used by the named counter sequence number server for non-specific debugging traces in multiple modules, for use by service personnel. It should not appear in normal execution unless debugging traces were deliberately activated, or an internal logic error was encountered.

System action: Processing continues.

User response: This message is intended primarily for diagnostic use as advised by your IBM Support Center.

Module: various

Destination: SYSPRINT

DFHNQnnnn messages

DFHNQ0001 *applid* An abend (code *aaa/bbbb*) has occurred at offset *X'offset'* in module *modname*.

Explanation: An abnormal end (abend) or program check has occurred in module *modname*. This implies that there may be an error in the CICS code. Alternatively, unexpected data has been input, or storage has been overwritten.

The code *aaa/bbbb* is a 3-digit hexadecimal MVS code (if applicable), followed by a 4-digit alphanumeric CICS code. The MVS code is a system completion code (for example, 0C1 or D37). If an MVS code is not applicable, this field is filled with three hyphens. The CICS code is an abend code or a number referring to a CICS message (for example, AKEA is a CICS abend code; 1310 refers to message DFHTS1310).

System action: An exception entry is made in the trace table. A system dump is taken, unless you have specifically suppressed dumps in the dump table.

CICS continues unless you have specified in the dump table that CICS should terminate.

Message DFHME0116 should be produced containing the symptom string for this problem.

User response: If CICS is still running, it is necessary to decide whether to terminate CICS.

Look up the MVS code, if there is one, in the relevant MVS codes manual which is detailed in the book list in the front of this manual.

Next, look up the CICS alphanumeric code in this manual. for further guidance.

If module *modname* is not crucial to the running of your CICS system, you may decide to continue to run and bring CICS down at a convenient time to resolve the problem.

If you cannot run without the full use of module *modname* you should bring CICS down in a controlled shutdown.

You need further assistance from IBM to resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHNQDM, DFHNQED, DFHNQIB, DFHNQNQ

XMEOUT Parameters: *applid, aaa/bbbb, X'offset', modname*

Destination: Console

DFHNQ0002 *applid* A severe error (code *X'code'*) has occurred in module *modname*.

Explanation: An error has been detected in module *modname*. The code X'*code* is the exception trace point id which uniquely identifies what the error is and where the error was detected.

System action: An exception entry (code X'*code* in the message) is made in the trace table. A system dump is taken, unless you have specifically suppressed dumps in the dump table.

CICS continues unless you have specified in the dump table that CICS should terminate.

Message DFHME0116 should be produced containing the symptom string for this problem.

User response: This indicates a possible error in CICS code. The severity of its impact depends on the importance of the function being executed at the time of the error.

CICS may not have been terminated. If the message occurs once and module *modname* is not crucial to the running of your CICS system, you may decide to continue to run and bring CICS down at a convenient time to resolve the problem.

If the message recurs or if you cannot run without the full use of module *modname*, you should bring CICS down in a controlled shutdown.

You need further assistance from IBM to resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHNQDM, DFHNQED, DFHNQIB, DFHNQNQ

XMEOUT Parameters: *applid, X'code',modname*

Destination: Console

DFHNQ0004 *applid* **A possible loop has been detected at offset** *X'offset'* **in module** *modname***.**

Explanation: A CICS function is taking more time to process than CICS expects. A possible loop has been detected in module *modname* at offset X'*offset*. This is the offset of the instruction which happened to be executing at the time when the error was detected.

System action: An exception entry is made in the trace table.

A system dump is taken unless you have specifically suppressed the dump (by a user exit program at the XDUREQ exit, in the dump table or by global system dump suppression). CICS processing continues unless you have specified in the dump table that CICS should terminate.

Message DFHME0116 should be produced containing the symptom string for this problem.

User response: If CICS has not been terminated, it is necessary to decide whether the problem is serious enough to bring CICS down.

Since some CICS functions can use a lot of CPU time, this message may have been caused by a long-running function. So there may not be an error. Usually, CICS purges a CICS function which exceeds the runaway task time interval which you have specified in the SIT (this is the ICVR which is measured in milliseconds). This means that execution of module *modname* is terminated and CICS continues.

If you have specified ICVR=0 in the SIT and you consider that module *modname* has gone into a loop, you have to terminate CICS in order to terminate the runaway function.

If the runaway has occurred in module DFHNQIB, it is probably the result of a long-running UOWENQ browse. If there are many enqueues in the system (particularly if many are owned by the same task), CICS can take a long time to process the browse. This can be resolved by increasing the runaway interval associated with the task performing the browse. To do this change the RUNAWAY attribute of the associated transaction definition.

If CICS has terminated module *modname*, and you consider that it was not a runaway, you should increase the ICVR time interval in the SIT. You have to bring CICS down at a suitable time to do this permanently. But you can change the ICVR time interval temporarily online using the CEMT transaction.

If raising the ICVR time does not solve the problem, you may need further assistance from IBM to resolve the problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHNQDM, DFHNQED, DFHNQIB, DFHNQNQ

XMEOUT Parameters: *applid, X'offset', modname*

Destination: Console

DFHNQ0101 *date time applid* **ENQMODEL** *model* **has been installed.**

Explanation: The ENQMODEL resource *model* has been installed on the local system.

System action: The enqmodel is installed and CICS continues normally.

User response: None required.

Module: DFHNQRN

XMEOUT Parameters: *date, time,applid, model*

Destination: CSMT

DFHNQ0102 *date time applid* **ENQMODEL** *model* **has been discarded.**

Explanation: The ENQMODEL resource *model* has been discarded from the local system.

System action: The enqmodel is discarded and CICS continues normally.

User response: None required.

Module: DFHNQRN

XMEOUT Parameters: *date, time,applid, model*

Destination: CSMT

DFHNQ0103 *date time applid* **The limit for the number of concurrent sysplex resource ENQ requests has been reached. Transaction** *tran* **detected return code** *X'code'* **from MVS ENQ.**

Explanation: Code X'*code* was returned by MVS when transaction *tran* attempted to Enqueue on a sysplex-wide resource. This indicates that the limit for the number of concurrent sysplex resource ENQ requests has been reached.

System action: The task does not have control of the resource. The task issuing the EXEC ENQ request is abended ABCODE ANQC.

User response: Retry the transaction one or more times. If the problem persists, consult your system programmer, who might be able to tune the system so that the limit is no longer exceeded.

Module: DFHNQED

XMEOUT Parameters: *date, time,applid, tran, X'code'*

Destination: CSMT

DFHNQ0104 *applid* **MVS returned code** *X'code'* **when transaction** *tran* **attempted to enqueue on a sysplex-wide resource. This in dicates that an unexpected environmental error has been detected.**

Explanation: Code *code* was returned by MVS when transaction *tran* attempted to Enqueue on a sysplex-wide resource. This indicates that an unexpected environmental error has been detected.

System action: The task does not have control of the resource. The task issuing the EXEC ENQ request is abended ABCODE ANQD.

User response: Retry the transaction one or more times. If the problem persists, consult your system programmer.

Module: DFHNQED

XMEOUT Parameters: *applid, X'code',tran*

Destination: Console

DFHNQ0105 *date time applid* **ENQMODEL** *model* **was either disabled or in the waiting state when transaction** *tran* **attempted to enqueue on a matching resource name.**

Explanation: An EXEC ENQ has been issued on a resource for which the enqmodel is either disabled or in the waiting state.

System action: The ENQ request is rejected, and the issuing task abended abcode ANQE ENQ_DISABLED.

User response: To avoid multiple transaction abends, such transactions should be disabled before disabling the enqmodel.

Module: DFHNQRN

XMEOUT Parameters: *date, time,applid, model, tran*

Destination: CSMT

DFHNQ0106 *date time applid* **ENQMODEL** *model* **has been replaced.**

Explanation: The ENQMODEL resource *model* has been replaced on the local system.

System action: The enqmodel is replaced and CICS continues normally.

User response: None required.

Module: DFHNQRN

XMEOUT Parameters: *date, time,applid, model*

Destination: CSMT

DFHNQ0107 *date time applid* **ENQMODEL** *model1* **must be disabled before enabling ENQMODEL** *model2***.**

Explanation: An attempt to enable an enqmodel failed, because a less specific enqmodel is enabled. Enqmodels forming nested generic enqnames must be enabled in order, from the most to the least specific.

ENQMODEL *model1* must be disabled before enabling ENQMODEL *model2*.

System action: The enqmodel is not installed, but CICS continues normally.

User response: Review the enqmodel definitions. If an enqmodel containing AB* is enabled, it must be disabled before enabling one with ABCD*. If enqmodels containing AB* and ABC* are installed, one must be discarded before installing an enqmodel with ABCD*.

Module: DFHNQRN

XMEOUT Parameters: *date, time,applid, model1, model2*

Destination: CSMT

DFHOTnnnn messages

DFHOT0001 *applid* **An abend (code** *aaa/bbbb***) has occurred at offset** *X'offset'* **in module** *modname***.**

Explanation: An abnormal end (abend) or program check has occurred in module *modname*. This implies that there may be an error in CICS code.

Alternatively
- Unexpected data has been input,
- Storage has been overwritten, or
- There has been a program check within a user program.

The code *aaa* is, if applicable, a 3-digit hexadecimal MVS system completion code (for example, 0C1 or D37). If an MVS code is not applicable, this field is filled with three hyphens. The 4-digit code *bbbb*, which follows *aaa*, is a user abend code produced either by CICS or by another product on the user's system.

If X'*offset* contains the value X'FFFF, then module *modname* was in control at the time of the abend, but the program status word (PSW) was not addressing this module.

System action: An exception entry is made in the trace table. A system dump is taken, unless you have specifically suppressed dumps in the dump table.

Either this is a critical error and CICS is terminated, even if you have specified in the dump table that CICS should not terminate.

Or CICS will continue unless you have specified in the dump table that CICS should terminate. Message DFHME0116 should be produced containing the symptom string for this problem.

User response: Notify the system programmer.

Look up the MVS code *aaa*, if there is one, in the relevant MVS codes manual which is detailed in the book list in the front of this manual.

If the *modname* insert contains the value *????*, then CICS was unable to determine which module has abnormally terminated. In this case, examine the system dump to determine which area of code has caused the program check.

The user should examine other messages to determine what the module which issued this message was doing at the time the abend occurred. From these messages they can deduce which product has produced the abend code *bbbb*. If *bbbb* is identified as a CICS code, it may be either alphameric or numeric.
- If the CICS code is alphameric (for example AKEA) then it is a CICS transaction abend code.
- If the CICS code is numeric (for example 1310), it refers to a CICS message (DFHTS1310 in our example).

If the user abend code is from another product (for example, IMS), refer to the appropriate messages and codes manual to determine the cause of the abend.

The entries in the appropriate manuals will give the user guidance regarding the nature of the error, and may also give some guidance concerning the appropriate user response. The program check may have occurred in a user program. If this is the case, the program check is usually followed by an ASRA or an ASRB transaction abend and a transaction dump.

If you want to suppress system dumps that precede ASRA and ASRB abends, you must specify this on an entry in the dump table, using either CEMT or an EXEC CICS command. Further guidance on suppressing system dumps can be found in the *CICS System Definition Guide*.

You may need further assistance from IBM to resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHOTxx

XMEOUT Parameters: *applid, aaa/bbbb, X'offset', modname*

Destination: Console

DFHOT0002 *applid* **A severe error (code** *X'code'***) has occurred in module** *module***.**

Explanation: The OT domain has received an unexpected error response from some other part of CICS. The operation requested by OT is described by code X'*code*.

For further information about CICS exception trace entries, refer to the *CICS Problem Determination Guide*.

System action: A system dump is taken and the system attempts to continue operation unless specifically inhibited by dump table entries.

Message DFHME0116 should be produced containing the symptom string for this problem.

User response: Investigate the cause of the problem as follows

1. Determine if the problem can be explained by any previous messages issued from some other CICS component.
2. Examine the symptom string.
3. Examine the dump.

If you cannot resolve the problem, you will need further assistance from IBM. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHOTDM, DFHOTTR, DFHOTCO, DFHOTSU

XMEOUT Parameters: *applid, X'code',module*

Destination: Console

DFHOT0004 *applid* **A possible loop has been detected at offset** *X'offset'* **in module** *modname***.**

Explanation: A CICS function is taking more time to process than CICS expects. A possible loop has been detected in module *modname* at offset X'*offset*. This is the offset of the instruction which was executing at the time the error was detected.

System action: An exception entry is made in the trace table. A system dump is taken, unless you have specifically suppressed dumps in the dump table.

Either this is a critical error and CICS is terminated, even if you have specified in the dump table that CICS should not terminate.

Or CICS will continue unless you have specified in the dump table that CICS should terminate.

User response: Notify the system programmer. If CICS has not been terminated, it will be necessary to decide whether the problem is serious enough to bring CICS down.

This may not be an error as some CICS functions can use a lot of processor time, and this message may have been caused by a long-running function.

Usually, CICS will purge a CICS function which exceeds the runaway task time interval which you have specified in the SIT (this is the ICVR parameter, which is measured in milliseconds). This means that the module *modname* will be terminated and CICS will continue.

If you have declared ICVR=0 in the SIT and you consider that module *modname* has gone into a loop, you will have to terminate CICS in order to terminate the runaway function.

If CICS has terminated module *modname*, and you consider that it was not a runaway function, you should increase the ICVR time interval in the SIT. You will have to bring CICS down at a suitable time to do this permanently. You can change the ICVR time interval temporarily online, using the CEMT transaction.

If raising the ICVR time does not solve the problem, you need further assistance from IBM to resolve this problem.

Module: DFHOTRM

XMEOUT Parameters: *applid, X'offset', modname*

Destination: Console

DFHOT0101 *applid* **A severe error has occurred. The description is '** *description***'. The error occurred in class** *classname/methodname***.**

Explanation: A Java class of the OT domain has detected an unexpected error condition. The description of the error is described in *description*. The class and method are described in *classname* and *methodname*.

For further information about CICS exception trace entries, refer to the *CICS Problem Determination Guide*.

System action: A system dump is taken and the system attempts to continue operation unless specifically inhibited by dump table entries.

Message DFHME0116 should be produced containing the symptom string for this problem.

User response: Investigate the cause of the problem as follows

1. Determine if the problem can be explained by any previous messages issued from some other CICS component.
2. Examine the symptom string.
3. Examine the dump.

If you cannot resolve the problem, you will need further assistance from IBM. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHOTDM, DFHOTTR, DFHOTCO, DFHOTSU, dfhjjts.jar

XMEOUT Parameters: *applid, description, classname/methodname*

Destination: Console

DFHOT0102 *applid* **Task running transaction** *tranid* **could not be purged for OTS timeout. Transaction token:***X'tran_token'***.**

Explanation: The task with transaction token *tran_token* has been executing with an inflight OTS transaction for a period of time exceeding its timeout value. An attempt was made to purge the task, but this failed either because the task was protected from being purged at this time, or the transaction definition for *tranid* specifies SPURGE(NO).

System action: The task continues to execute with no further attempts to purge the task.

Message DFHME0116 should be produced containing the symptom string for this problem.

User response: Consider making the transaction definition for *tranid* specify SPURGE(YES). See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHOTIS2

XMEOUT Parameters: *applid, tranid,X'tran_token'*

Destination: Console

DFHOT0103 *applid* **A system exception has occurred while processing a GIOP request. The server that was processing the request can be identified by the hostname** *hostname***.**

Explanation: A system exception was thrown while a GIOP request was being processed by this server. The *hostname* identifies the server.

System action: The system exception is returned to the client of the GIOP request.

User response: Investigate the cause of the problem as follows

1. Determine if the problem can be explained by any previous messages issued from some other CICS component. Look especially for DFHEJxxx or DFHIIxxx messages.
2. If a trace is available look for OT, EJ or II exception trace points.

   Also look for II trace points 0132, 0714 and 0201. II 0132 and 0714 trace GIOP requests and replies. If a reply contains a system exception the II 0132 or 0714 is followed by an II 0201 with SYSTEM_EXCEPTION in the trace interpretation.

If you cannot resolve the problem, you need further assistance from IBM. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: dfhjjts.jar

XMEOUT Parameters: *applid, hostname*

Destination: Console

DFHOT0105 *applid* **Task running transaction** *tranid* **has been purged as it exceeded its specified OTS timeout. Transaction token:***X'tran_token'***.**

Explanation: The task with transaction token *tran_token* has been executing with an inflight OTS transaction for a period of time exceeding its timeout value.

System action: The task is purged.

Message DFHME0116 should be produced containing the symptom string for this problem.

User response: Investigate why the transaction exceeded the OTSTimeout value specified in the transaction definition. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHOTIS2

XMEOUT Parameters: *applid, tranid,X'tran_token'*

Destination: Console

DFHPAnnnn messages

DFHPA0001 *applid* **An abend (code** *aaa/bbbb***) has occurred at offset** *X'offset'* **in module** *modname***.**

Explanation: An unexpected program check or operating system abend with abend code *aaa/bbbb* occurred at offset X'*offset*' in module *modname*. This can be caused by corruption of CICS code or control blocks.

During initialization, CICS might not have access to the user's *applid* coded in the SIT. If CICS produces this message in these circumstances, it uses the default *applid* value DBDCCICS.

System action: A system dump is taken unless suppressed for this system abend code, and the system attempts to continue operation unless termination has been requested through the dump table.

Message DFHME0116 contains the symptom string for this problem.

User response: Investigate the cause of the abend or program check; Use the dump, abend code, trace table, and any other diagnostic messages that have been generated.

Module: DFHPAGP, DFHPADM, DFHPAIO, DFHPAIN

XMEOUT Parameters: *applid, aaa/bbbb, X'offset', modname*

Destination: Console

DFHPA0002 *applid* **A severe error (code** *X'code'***) has occurred in module** *modname***.**

Explanation: An error has been detected in module *modname*

The code X'*code*' is the exception trace point id which uniquely identifies what the error is and where the error was detected.

During initialization, CICS may not have access to the user's *applid* coded in the SIT. If CICS produces this message in these circumstances, it uses the default *applid* value DBDCCICS.

System action: An exception entry (code X'*code*' in the message) is made in the trace table. A system dump is taken, unless you have specifically suppressed dumps in the dump table.

CICS continues unless you have specified in the dump

table that CICS should terminate.

If appropriate, an error return code is sent to the caller of this domain. In this case, CICS could be terminated by the caller (for example, the domain manager, DFHDMDM). A message is issued to this effect.

Message DFHME0116 should be produced containing the symptom string for this problem.

User response: This indicates a possible error in CICS code. The severity of its impact depends on the importance of the function being executed at the time of the error.

CICS may not have been terminated.

If the message occurs once and module *modname* is not crucial to the running of your CICS system, you may decide to continue to run and bring CICS down at a convenient time to resolve the problem.

If the message recurs or if you cannot run without the full use of module *modname*, you should bring CICS down in a controlled shutdown.

For further information about CICS exception trace entries, refer to the *CICS Problem Determination Guide*.

You need further assistance from IBM to resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHPADM

XMEOUT Parameters: *applid, X'code',modname*

Destination: Console

DFHPA0004 *applid* **A possible loop has been detected at offset** *X'offset'* **in module** *modname***.**

Explanation: A CICS function is taking more time to process than CICS expects. A possible loop has been detected in module *modname* at offset X'*offset*'. This is the offset of the instruction which was processing when the error was detected.

During initialization, CICS might not have access to the user's *applid* coded in the SIT. If CICS produces this message in these circumstances, it uses the default *applid* value DBDCCICS.

System action: An exception entry is made in the trace table. A system dump is taken, unless you have suppressed dumps in the dump table.

CICS continues unless you have specified in the dump table that CICS terminates.

Message DFHME0116 contains the symptom string for this problem.

User response: If CICS has not been terminated, it is necessary to decide whether the problem is serious enough to stop CICS.

Because some CICS functions use a large amount of processor time, this message might have been caused by a long-running function. So there might not be an error here. CICS purges a CICS function which exceeds the runaway task time interval which you have specified in the SIT (the ICVR measured in milliseconds). This means that the CICS module identified in the message is terminated and CICS continues.

If you have declared ICVR=0 in the SIT and you consider that module *modname* has gone into a loop, terminate CICS to terminate the runaway module.

If CICS has terminated module *modname*, and you consider that it was not a runaway, increase the ICVR time interval in the SIT. Stop CICS at a suitable time to do this permanently. You can change the ICVR time interval temporarily online, using the CEMT transaction.

If raising the ICVR time does not solve the problem, request additional support from IBM. See Part 4 of the *CICS Problem Determination Guide* for more information.

Module: DFHPADM, DFHPAIN

XMEOUT Parameters: *applid, X'offset', modname*

Destination: Console

DFHPA1100 *applid* **OVERRIDE PARAMETERS FROM JCL EXEC STATEMENT** *parm*

Explanation: This message is displayed during CICS initialization to show the SIT overrides obtained from the PARM parameter of the JCL EXEC statement for the CICS job. If the parameter string *parm* contains 40 characters or less, it is shown on this message. Otherwise it is shown on a DFHPA1927 message following this message.

During initialization, CICS may not have access to the user's *applid* coded in the SIT. If CICS produces this message in these circumstances, it uses the default *applid* value DBDCCICS.

System action: System initialization continues.

User response: None.

Module: DFHPAIO

Destination: Console

DFHPA1101 *applid* **DFHSIT***xx* **IS BEING LOADED.**

Explanation: This is an informational message displayed during CICS initialization.

xx, if present, represents the 1- or 2-character suffix for the SIT being used.

During initialization, CICS may not have access to the user's *applid* coded in the SIT. If CICS produces this message in these circumstances, it uses the default *applid* value DBDCCICS.

System action: System initialization continues.

User response: None.

Module: DFHPADM

Destination: Console

DFHPA1102 *applid* **OVERRIDE PARAMETERS FROM SYSIN**

Explanation: This message is displayed during CICS initialization before displaying the SIT overrides obtained from the SYSIN data set. The message is followed by a series of DFHPA1927 messages that show the actual contents of the SYSIN records.

During initialization, CICS may not have access to the user's *applid* coded in the SIT. If CICS produces this message in these circumstances, it uses the default *applid* value DBDCCICS.

System action: System initialization continues.

User response: None.

Module: DFHPAIO

Destination: Console

DFHPA1103 *applid* **END OF FILE ON SYSIN.**

Explanation: This is an informational message displayed when CICS has reached the end of the SYSIN data set.

During initialization, CICS may not have access to the user's *applid* coded in the SIT. If CICS produces this message in these circumstances, it uses the default *applid* value DBDCCICS.

System action: System initialization continues.

User response: None.

Module: DFHPAIO

Destination: Console

DFHPA1104 *applid* **SPECIFY ALTERNATIVE SIT PARAMETERS, IF ANY, AND THEN TYPE '.END'.**

Explanation: If the word “CONSOLE” or “CN” was detected in either the parameter input stream on the EXEC statement of the CICS JCL, or in the SYSIN data set, then this prompt message will be displayed when the parameter (PA) manager is ready to accept console overrides.

System action: The system initialization program waits for a response from the operator.

User response: Enter the required parameter changes, separated by commas. Terminate your reply by entering '.END'.

Module: DFHPAIO

Destination: Console

DFHPA1105 *applid* **CONTINUE SPECIFYING SIT PARAMETERS AND THEN TYPE '.END'.**

Explanation: While SIT overrides are being entered on the console, this prompt message will be displayed to request more overrides if the previous line did not end with “.END”.

System action: The system initialization program waits for more override parameters to be entered by the operator.

User response: Continue entering the required parameter changes, separated by commas. Terminate your reply by entering '.END'.

Module: DFHPAIO

Destination: Console

DFHPA1106 *applid* **MODULE** *DFHSITxx* **COULD NOT BE LOADED. SPECIFY NEW SUFFIX, 'NONE'(UNSUFFIXED) OR 'CANCEL'.**

Explanation: During PA domain initialization, a SIT with a suffix of *xx* could not be loaded.

During initialization, CICS may not have access to the user's *applid* coded in the SIT. If CICS produces this message in these circumstances, it uses the default *applid* value DBDCCICS.

System action: The PA domain initialization routines wait for the operator to enter an alternative 1- or 2-character suffix, or YES to request the unsuffixed SIT, or CANCEL. If CANCEL is entered, CICS is abnormally terminated.

User response: Determine whether the suffix is correct. If it is not, enter the correct suffix or enter 'YES' for the unsuffixed version. Otherwise enter 'CANCEL', correct the error (by adding the module to the appropriate library) and restart CICS.

Module: DFHPADM

Destination: Console

DFHPA1107 *applid* **A** *level* **VERSION OF MODULE** *DFHSITxx* **WAS LOADED. CICS CAN ONLY INITIALIZE WITH THE CURRENT LEVEL SIT.**

Explanation: During PA domain initialization, a SIT with a suffix of *xx* and a release level of *level* was loaded. Since this version is not compatible with current CICS code, CICS is abnormally terminated.

During initialization, CICS may not have access to the user's *applid* coded in the SIT. If CICS produces this message in these circumstances, it uses the default *applid* value DBDCCICS.

System action: CICS terminates abnormally.

User response: To correct the error, reassemble the SIT at the current CICS level. Refer to the *CICS Transaction Server for z/OS Upgrading from CICS TS Version 4.1.* for guidance on changes to the SIT that may be required for the new release. CICS should then be restarted.

Alternatively, the system may have been pointing to the wrong SIT. To correct this second case, check the bring up JCL to make sure that the 'SIT=' override is correct. Refer to the *CICS System Definition Guide* for guidance on coding system initialization parameters. Furthermore, check the library search order to make sure that stray SITs, which may be unknowingly present, are removed or renamed.

Module: DFHPADM

Destination: Console

DFHPA1108 *applid* **DFHSIT***xx* **HAS BEEN LOADED. (GENERATED AT MM/DD=** *mm/dd* **HH/MM=** *hh/mm***).**

Explanation: This is an informational message displayed during CICS initialization. It displays the date and time that the loaded system initialization table was generated.

- *xx* is the suffix of the SIT being used.
- *mm/dd* is the date (month and day) that the SIT was generated.
- *hh/mm* is the time (hours and minutes of the 24 hour clock) that the SIT was generated.

System action: CICS Initialization continues.

User response: None.

Module: DFHPADM

Destination: Console

DFHPA1901 *applid modname* **COULD NOT BE FOUND OR IS IN A NON-APF LIBRARY/CONCATENATION. CICS IS TERMINATED.**

Explanation: An error has occurred while attempting to load either DFHPASYL or DFHPAIO.

During initialization, CICS may not have access to the user's *applid* coded in the SIT. If CICS produces this message in these circumstances, it uses the default *applid* value DBDCCICS.

System action: CICS terminates abnormally.

User response: Correct the problem with the module that failed to load.

For example, check that a module *modname* actually exists in the program libraries used by CICS. Check the JCL and that the correct name, the correct library and the correct member in the library are used.

Module: DFHPADM

Destination: Console

DFHPA1902 *applid* **UNABLE TO OPEN SYSIN DATA SET. CICS IS TERMINATED.**

Explanation: An error has occurred while attempting to open the SYSIN data set. This occurs if the SYSIN data set does not exist.

During initialization, CICS may not have access to the user's *applid* coded in the SIT. If CICS produces this message in these circumstances, it uses the default *applid* value DBDCCICS.

System action: CICS terminates abnormally.

User response: Ensure that the SYSIN data set exists and is correct.

Module: DFHPAIO

Destination: Console

DFHPA1903 *applid* **ERROR WHILE READING FROM SYSIN DATA SET. CICS IS TERMINATED.**

Explanation: An error has occurred while attempting to read a record from the SYSIN data set. This can occur if the SYSIN data set has been corrupted, or has been incorrectly defined (for example, has not been defined with a logical record length, LRECL, of 80).

During initialization, CICS may not have access to the user's *applid* coded in the SIT. If CICS produces this message in these circumstances, it uses the default *applid* value DBDCCICS.

System action: CICS terminates abnormally.

User response: Correct the problem in the SYSIN data set.

Module: DFHPAIO

Destination: Console

DFHPA1907 *applid* **DATA** *data* **IS INVALID FOR KEYWORD** *keyword***. KEYWORD IS IGNORED.**

Explanation: This message is displayed if the data specified, either for a keyword in the SIT or for a SIT override, is invalid, AND the PARMERR=IGNORE option is specified in the SIT or as an override. The message inserts are as follows

- *keyword* is the keyword for which the value is in error.
- *data* is the invalid data.

System action: The keyword is ignored. CICS will attempt to initialize without the keyword in error.

User response: Correct the error by specifying a valid value for the keyword wherever it has been specified, either in the SIT or in the CICS input JCL, prior to

restarting CICS. Refer to the *CICS System Definition Guide* for information on how to do this.

Module: DFHPAGP

Destination: Console

DFHPA1908 *applid* **DATA** *data* **IS INVALID FOR KEYWORD** *keyword***. CICS IS TERMINATED.**

Explanation: This message is displayed if the data specified, either for a keyword in the SIT or for a SIT override, is invalid, and the PARMERR=ABEND option is specified in the SIT or as an override. The message inserts are as follows
- *keyword* is the keyword for which the value is in error.
- *data* is the invalid data.

This message is issued only if the data for keyword MCT is in error.

System action: CICS terminates abnormally.

User response: Correct the error by specifying a valid value for the keyword wherever it has been specified, either in the SIT or in the CICS input JCL, prior to restarting CICS. Refer to the *CICS System Definition Guide*. for information on how to do this.

Module: DFHPAGP

Destination: Console

DFHPA1909 *applid* **DATA** *data* **IS INVALID FOR KEYWORD** *keyword***. RESPECIFY KEYWORD AND DATA.**

Explanation: This message is displayed if the data specified, either for a keyword in the SIT or for a SIT override, is invalid, and the PARMERR=INTERACT option is specified in the SIT or as an override. The message inserts are as follows
- *keyword* is the keyword for which the value is in error.
- *data* is the invalid data.

invalid keyword data.

System action: CICS waits for the corrected keyword and data to be entered as an override on the console by the operator, and analyzes this override.

User response: Enter the corrected SIT keyword and data on the console, or bypass by typing '.END', or just supply a blank line.

Refer to the *CICS System Definition Guide* for information on how to do this.

Module: DFHPAGP

Destination: Console

DFHPA1910 *applid* **SIT OVERRIDE** *keyword* **IS NOT RECOGNIZED. OVERRIDE IS IGNORED. (MODULE** *modname***).**

Explanation: This message is displayed if a keyword specified in the input override parameter stream is invalid, and the PARMERR=IGNORE option is specified in the SIT, or as an override. The insert *keyword* is the invalid keyword.

During initialization, CICS may not have access to the user's *applid* coded in the SIT. If CICS produces this message in these circumstances, it uses the default *applid* value DBDCCICS.

System action: The keyword is ignored, and CICS attempts to initialize without the keyword in error.

User response: Ensure the keyword specified is correct and update CICS input JCL with the corrected keyword prior to the next initialization of CICS.

Module: DFHPADM, DFHPAGP

Destination: Console

DFHPA1911 *applid* **SIT OVERRIDE** *keyword* **IS NOT RECOGNIZED. CICS IS TERMINATED.**

Explanation: This message is displayed if a keyword specified in the input override parameter stream is invalid, and the PARMERR=ABEND option is specified in the SIT, or as an override. the insert *keyword* is the invalid keyword.

During initialization, CICS may not have access to the user's *applid* coded in the SIT. If CICS produces this message in these circumstances, it uses the default *applid* value DBDCCICS.

System action: CICS terminates abnormally.

User response: Correct the error by specifying a valid keyword in the SIT overrides, then restart CICS. Refer to the *CICS System Definition Guide*. for information on how to do this.

Module: DFHPADM

Destination: Console

DFHPA1912 *applid* **SIT OVERRIDE** *keyword* **IS NOT RECOGNIZED. SPECIFY CORRECT SIT OVERRIDE.**

Explanation: This message is displayed if a keyword specified in the input override parameter stream is invalid, and the PARMERR=INTERACT option is specified in the SIT, or as an override. The insert *keyword* is the invalid keyword. Note that PARMERR=INTERACT is the default action for invalid SIT overrides.

During initialization, CICS may not have access to the user's *applid* coded in the SIT. If CICS produces this

message in these circumstances, it uses the default *applid* value DBDCCICS.

System action: CICS waits for the corrected override to be entered on the console by the operator, and analyzes this override.

User response: Enter the corrected SIT override on the console, or bypass by typing '.END', or just supply a blank line.

Module: DFHPADM

Destination: Console

DFHPA1913 *applid* **INVALID DATA HAS BEEN DETECTED FOR SIT OVERRIDE** *keyword* **BY MODULE** *modname***. OVERRIDE IS IGNORED.**

Explanation: This message can be issued in the following situations

- If the data supplied for a SIT override is syntactically invalid, and the PARMERR=IGNORE system initialization parameter is specified. The insert *keyword* is the keyword for which the value is in error.
- In response to invalid data when PARMERR=INTERACT is specified but the user has been attempting to correct a previous invalid SIT keyword or value. In this case, message DFHPA1912 or DFHPA1915 follows this message to prompt for the correction to the original error.
- When PARMERR=INTERACT is specified if invalid data has been passed in PARM or SYSIN for a keyword that cannot be entered from the console (and therefore cannot be corrected by interaction with the console). This typically applies to security keywords.

During initialization, CICS may not have access to the user's *applid* coded in the SIT. If CICS produces this message in these circumstances, it uses the default *applid* value DBDCCICS.

System action: The keyword is ignored, and CICS attempts to initialize without the keyword in error.

User response: Ensure the value specified is correct and update CICS input JCL with the corrected keyword prior to the next initialization of CICS.

Module: DFHPADM, DFHPAGP

Destination: Console

DFHPA1914 *applid* **INVALID DATA HAS BEEN DETECTED FOR SIT OVERRIDE** *keyword***. CICS IS TERMINATED.**

Explanation: This message is displayed if the data specified for a SIT override is syntactically invalid, and the PARMERR=ABEND option is specified in the SIT, or as an override.

The insert *keyword* is the keyword for which the value is in error.

During initialization, CICS may not have access to the user's *applid* coded in the SIT. If CICS produces this message in these circumstances, it uses the default *applid* value DBDCCICS.

System action: CICS terminates abnormally.

User response: Correct the error by specifying a valid value for the keyword in the SIT overrides, then restart CICS.

Refer to the *CICS System Definition Guide* for information on how to do this.

Module: DFHPADM

Destination: Console

DFHPA1915 *applid* **INVALID DATA HAS BEEN DETECTED FOR SIT OVERRIDE** *keyword***. RESPECIFY THE OVERRIDE.**

Explanation: This message is displayed if the data specified for a SIT override is syntactically invalid or is a numeric value of 2 gigabytes or greater. It is only displayed if the PARMERR=INTERACT option is specified in the SIT, or as an override.

The insert *keyword* is the keyword for which the value is in error.

invalid SIT overrides.

System action: CICS waits for the corrected override to be entered on the console by the operator, and then analyzes this override.

User response: Enter the corrected SIT override on the console, or bypass by typing '.END', or just supply a blank line.

Module: DFHPADM

Destination: Console

DFHPA1916 *applid* **SIT OVERRIDE DATA** *data* **IS OUT OF RANGE FOR KEYWORD** *keyword***. OVERRIDE IS IGNORED.**

Explanation: This message is displayed if the data supplied for a SIT override is out of range, and the PARMERR=IGNORE option is specified in the SIT, or as an override. The message inserts are as follows

- *keyword* is the keyword for which the value is in error.
- *data* is the invalid data.

System action: The keyword is ignored. CICS will attempt to initialize without the keyword in error.

User response: Ensure the value specified is correct and update CICS input JCL with the corrected keyword prior to the next initialization of CICS.

Module: DFHPAGP

Destination: Console

DFHPA1917 *applid* **SIT OVERRIDE DATA** *data* **IS OUT OF RANGE FOR KEYWORD** *keyword***. CICS IS TERMINATED.**

Explanation: This message is displayed if the data specified for a SIT override is out of range, and the PARMERR=ABEND option is specified in the SIT, or as an override. The message inserts are as follows
- *keyword* is the keyword for which the value is in error.
- *data* is the invalid data.

System action: CICS terminates abnormally.

User response: Correct the error by specifying a valid value for the keyword in the SIT overrides, and restart CICS.

Refer to the *CICS System Definition Guide* for information on how to do this.

Module: DFHPAGP

Destination: Console

DFHPA1918 *applid* **SIT OVERRIDE DATA** *data* **IS OUT OF RANGE FOR KEYWORD** *keyword***. RESPECIFY THE OVERRIDE.**

Explanation: This message is displayed if the data specified for a SIT override is out of range, and the PARMERR=INTERACT option is specified in the SIT, or as an override. The message inserts are as follows
- *keyword* is the keyword for which the value is in error.
- *data* is the invalid data.

Note: PARMERR=INTERACT is the default action for invalid SIT overrides.

System action: CICS waits for the corrected override to be entered on the console by the operator, and analyzes this override.

User response: Enter the corrected SIT override on the console, or bypass by typing '.END', or just supply a blank line.

Module: DFHPAGP

Destination: Console

DFHPA1919I *applid* **SPECIFIED DATA IS INCORRECT. ALL SUBSEQUENT OVERRIDES ON THIS LINE IGNORED.**

Explanation: An invalid value for a keyword has been entered after message DFHPA1912 or DFHPA1915 has been issued. CICS has been unable to analyze the overrides following the invalid one.

During initialization, CICS may not have access to the user's *applid* coded in the SIT. If CICS produces this message in these circumstances, it uses the default *applid* value DBDCCICS.

System action: CICS continues to prompt for the corrected override using either message DFHPA1912 or message DFHPA1915.

User response: Enter the corrected SIT override, ensuring that the data is in the valid range for that keyword.

You cannot suppress this message with the system initialization parameter MSGLVL=0.

Module: DFHPADM

Destination: Console

DFHPA1920I *applid* **SIT KEYWORD** *keyword* **AND ALL SUBSEQUENT OVERRIDES ON THIS LINE IGNORED.**

Explanation: An invalid keyword has been entered in response to message DFHPA1912 or DFHPA1915. CICS has been unable to analyze the overrides following the invalid one.

The insert *keyword* is the invalid keyword.

During initialization, CICS may not have access to the user's *applid* coded in the SIT. If CICS produces this message in these circumstances, it uses the default *applid* value DBDCCICS.

System action: CICS continues to prompt for the corrected keyword using message DFHPA1912 or message DFHPA1915.

User response: Enter the corrected SIT override, ensuring that the keyword is valid.

Refer to the *CICS System Definition Guide* for information on how to do this.

You cannot suppress this message with the SIT parameter, MSGLVL=0.

Module: DFHPADM

Destination: Console

DFHPA1921 *applid* **PLEASE SPECIFY THE REQUIRED SIT SUFFIX, OR SPECIFY 'NONE'(UNSUFFIXED).**

Explanation: The System Initialization Table (SIT) holds information needed for CICS to initialize. This is loaded during preinitialization. The user specifies a 1- or 2-character suffix to identify which SIT to load. To use the unsuffixed default SIT, reply with 'SIT=NO'.

During initialization, CICS may not have access to the user's *applid* coded in the SIT. If CICS produces this message in these circumstances, it uses the default *applid* value DBDCCICS.

System action: The system loads and uses the

specified SIT if it can be found. Otherwise the user is prompted to enter a valid suffix.

User response: Type 'SIT=*xx*' in response to the message, where *xx* represents the SIT suffix to be used. (A suffix of 'NO' causes the system to load an unsuffixed SIT).

Module: DFHPADM.

Destination: Console

DFHPA1922I *applid* **SPECIAL KEYWORD** *keyword* **HAS BEEN REPEATED AND IS IGNORED.**

Explanation: There are 2 special keywords, each with an abbreviation. The first is SYSIN, which has the abbreviation SI. The second is CONSOLE, which has the abbreviation CN. These keywords direct CICS to read SIT overrides from the SYSIN data stream and from the console respectively.

The system has found a duplication of one of these keywords. The JCL should be amended.

During initialization, CICS may not have access to the user's *applid* coded in the SIT. If CICS produces this message in these circumstances, it uses the default *applid* value DBDCCICS.

System action: System initialization continues.

User response: Correct the JCL by removing the second occurrence of the special keyword specified. (Refer to the *CICS Operations and Utilities Guide* for more information on coding CICS system initialization parameters).

You cannot suppress this message with the system initialization parameter MSGLVL=0.

Module: DFHPADM

Destination: Console

DFHPA1923I *applid* **SPECIAL KEYWORD** *keyword* **HAS BEEN DEFINED OUT OF CONTEXT.**

Explanation: There are 2 special keywords, each with an abbreviation. The first is SYSIN, which has the abbreviation SI. The second is CONSOLE, which has the abbreviation CN. These keywords direct CICS to read SIT overrides from the SYSIN data stream and from the console respectively.

SYSIN cannot be specified from either the SYSIN data stream, or from the console. CONSOLE cannot be specified from the console.

The system has found the specified keyword *keyword* in one of the situations described above, and so the JCL should be amended.

During initialization, CICS may not have access to the user's *applid* coded in the SIT. If CICS produces this message in these circumstances, it uses the default *applid* value DBDCCICS.

System action: System initialization continues.

User response: Correct the JCL by removing the special keyword specified (Refer to the *CICS Operations and Utilities Guide* for more information on coding CICS system initialization parameters).

You cannot suppress this message with the system initialization parameter MSGLVL=0.

Module: DFHPADM

Destination: Console

DFHPA1924I *applid* **Initialization parameter** *parm1* **exceeds** *parm2***. Both are defaulted. (module** *modname***).**

Explanation: One of two situations may have occurred

- In the first, parameter *parm1* has been set as greater than parameter *parm2* by override.
- In the second, parameter *parm1* may have been set to a certain level in the SIT macro, but parameter *parm2* has been changed by override so that it is now less than parameter *parm1*.

In either case, the condition is invalid, and so default values are applied to both parameters.

System action: Both parameters are set to their default values and system initialization continues.

User response: The system initialization parameters should be altered so that *parm2* is greater than *parm1* for the next bring up of CICS. (Refer to the *CICS System Definition Guide* for more information about system initialization parameters.)

CICS initialization continues with the default values. The user can then change the defaulted values using the CICS supplied transaction.

You cannot suppress this message with the system initialization parameter, MSGLVL=0, unless it has been issued from DFHPAGP via the message domain.

Module: DFHPADM, DFHPAGP

XMEOUT Parameters: *applid, parm1,parm2, modname*

Destination: Console

DFHPA1926 *applid* **A MISSING DELIMITER HAS BEEN DETECTED FOR OVERRIDE** *keyword* **(MODULE** *modname***).**

Explanation: The data supplied for a SIT override *keyword* has not been delimited correctly.

System action: CICS terminates abnormally.

User response: Correct the specified override in the SYSIN data set by entering the opening or the closing delimiter on its data.

Restart CICS.

Refer to the *CICS System Definition Guide* for the required delimiter for keyword *keyword*.

Module: DFHPADM

Destination: Console

DFHPA1927 *applid text*

Explanation: This message is displayed during CICS initialization to show parameters that will override the system initialization parameters coded on the DFHSIT macro. If it is preceded by message DFHPA1100, *text* shows the contents of the PARM parameter from the JCL EXEC statement. If it is preceded by message DFHPA1102, *text* shows the contents of a record read from the SYSIN data set.

During initialization, CICS may not have access to the user's *applid* coded in the SIT. If CICS produces this message in these circumstances, it uses the default *applid* value DBDCCICS.

System action: System initialization continues.

User response: None.

Module: DFHPAIO

Destination: Console

DFHPA1928 *applid* **IF XRF=YES, THE GENERIC AND SPECIFIC APPLIDS MUST BE DIFFERENT. CICS IS TERMINATED.**

Explanation: In an XRF CICS system, a generic and a specific *applid* must be defined. They must also be unique.

This message is displayed and CICS is terminated if both these *applid*s, which are defined as SIT overrides, are found to be identical in an XRF environment.

This message is also displayed if only the generic *applid* is defined.

System action: CICS terminates abnormally.

User response: Correct the error by defining both the generic and the specific *applid*s as SIT overrides. Ensure that they are unique. Refer to the *CICS System Definition Guide* for further information on how to do this.

Module: DFHPADM

Destination: Console

DFHPA1929 *applid* **CSDBKUP=DYNAMIC REQUIRES CSDRECOV=ALL. CSDBKUP HAS BEEN DEFAULTED TO STATIC.**

Explanation: When the value DYNAMIC is specified for the CSDBKUP keyword the CSDRECOV keyword must have the value ALL. However, the override parameter stream has overridden the SIT values and this requirement has not been fulfilled.

System action: To enable initialization to continue, CSDBKUP is set to the default value STATIC. Because CSDBKUP is set to STATIC, the CICS CSD as defined in the input JCL, or by dynamic allocation, is not eligible for backup while open for update.

User response: Update CICS input JCL with the correct values for CSDBKUP and CSDRECOV keywords prior to the next initialization of CICS.

Module: DFHPADM

Destination: Console

DFHPA1930 *applid* **CSDFRLOG=***nn* **HAS BEEN IGNORED AS CSDRECOV=ALL HAS NOT BEEN SPECIFIED.**

Explanation: When a forward recovery log value is specified for the CSDFRLOG keyword, the CSDRECOV keyword must have the value ALL. However, the override parameter stream has overridden the SIT values and this requirement has not been fulfilled.

System action: To enable initialization to continue, the CSDFRLOG value has been ignored. Because CSDFRLOG is ignored, the CICS CSD as defined in the input JCL, or by dynamic allocation, is not eligible for forward recovery logging.

User response: Update CICS input JCL with the correct values for the CSDFRLOG and CSDRECOV keywords prior to the next initialization of CICS.

Module: DFHPADM

Destination: Console

DFHPA1931 *applid keyword* **IS A SECURITY KEYWORD AND CANNOT BE ENTERED AT THE CONSOLE. THE KEYWORD IS IGNORED.**

Explanation: A SIT override has been entered at the console which is deemed to be a member of the set of security system initialization parameters. Security system initialization parameters cannot be entered at the console.

During initialization, CICS might not have access to the user's *applid* coded in the SIT. If CICS produces this message in these circumstances, it uses the default *applid* value DBDCCICS.

System action: CICS ignores the security SIT override, and initialization continues.

User response: Update CICS input JCL so that security keywords are included in the SIT, SYSIN or PARM prior to the next initialization of CICS.

Module: DFHPADM

Destination: Console

DFHPA1932 *applid* **A PSDINT VALUE GREATER THAN ZERO WAS SPECIFIED WITH XRF=YES. PSDINT HAS BEEN RESET TO 0.**

Explanation: A conflict of options has been detected. You have requested Persistent Session Support by specifying a nonzero value for the PSDINT system initialization parameter. This parameter is used to set the Persistent Sessions delay interval. However, you have also requested XRF support by specifying XRF=YES. Persistent Sessions Support and XRF are mutually exclusive.

System action: The PSDINT value defaults to 0. CICS attempts to continue with XRF support.

User response: Before you next initialize CICS, alter the system initialization parameters so that either PSDINT=0 or XRF=NO. See the *CICS System Definition Guide* for further information.

Module: DFHPADM

Destination: Console

DFHPA1934I *applid* **START TYPE CHANGED TO** *type***.**

Explanation: The start type specified in the SIT has been changed to that shown in the message.

System action: Initialization continues with the new start type.

User response: None.

Module: DFHPAGP

Destination: Console

DFHPA1935 *applid keyword* **IS A SECURITY KEYWORD. THIS KEYWORD AND ALL SUBSEQUENT KEYWORDS ON THIS LINE ARE IGNORED.**

Explanation: A SIT override has been entered at the console which is deemed to be a member of the set of security system initialization parameters. Security system initialization parameters cannot be entered at the console. CICS has been unable to analyze the overrides following the security keyword.

During initialization, CICS might not have access to the user's *applid* coded in the SIT. If CICS produces this message in these circumstances, it uses the default *applid* value DBDCCICS.

System action: CICS ignores the security SIT override and all subsequent overrides entered on this line. Initialization continues.

User response: Update CICS input JCL so that security keywords are included in the SIT, SYSIN or PARM prior to the next initialization of CICS.

Module: DFHPADM

Destination: Console

DFHPA1936 *applid* **A VALUE WAS SPECIFIED FOR GRNAME WITH XRF=YES. GRNAME HAS BEEN RESET TO BLANKS.**

Explanation: A conflict of options has been detected. You have requested generic resource support by specifying a value for the GRNAME system initialization parameter. This parameter is used to register CICS as a z/OS Communications Server generic resource. However, you have also requested XRF support by specifying XRF=YES. Generic resource support and XRF are mutually exclusive.

System action: The GRNAME value is reset to blanks. CICS attempts to continue with XRF support but without generic resource support.

User response: Before you next initialize CICS, alter the system initialization parameters so that either GRNAME is not specified or XRF=NO. See the *CICS System Definition Guide* for further information.

Module: DFHPADM

Destination: Console

DFHPA1937 *applid* **GRNAME SPECIFIED WITH SPECIFIC AND GENERIC APPLIDS. THE GENERIC APPLID HAS BEEN SET EQUAL TO THE SPECIFIC.**

Explanation: A conflict of options has been detected. You have requested generic resource support by specifying a value for the GRNAME system initialization parameter. This parameter is used to register CICS as a z/OS Communications Server generic resource. However, you have also specified different values for the generic and specific applids. Generic resource support requires that only one value should be specified for the APPLID parameter.

System action: The generic applid is set to the value of the specific. CICS continues and attempts to register as a z/OS Communications Server generic resource.

User response: If you intended that CICS should register as a z/OS Communications Server generic resource, take no action. If you did not, remove the GRNAME parameter before you next initialize the system.

Module: DFHPADM

Destination: Console

DFHPA1938 *applid* **GRNAME AND APPLID ARE THE SAME. GRNAME RESET TO BLANKS.**

Explanation: A conflict of options has been detected. You have requested generic resource support by

specifying a value for the GRNAME system initialization parameter. This parameter is used to register CICS as a z/OS Communications Server generic resource. However, the value specified for GRNAME is the same as the CICS applid. z/OS Communications Server requires that the generic resource name must be different from the CICS applid.

System action: The generic resource name is set to blanks. CICS will not attempt to register as a z/OS Communications Server generic resource.

User response: If you intended that CICS should register as a z/OS Communications Server generic resource, specify the correct GRNAME when you next initialize the system.

Module: DFHPADM

Destination: Console

DFHPA1940 *applid* **CSDINTEG=CONSISTENT AND CSDINTEG=REPEATABLE REQUIRE CSDRLS=YES. CSDINTEG HAS BEEN SET TO UNCOMMITTED.**

Explanation: Read integrity on the CICS system definition (CSD) file has been requested by specifying either CSDINTEG=CONSISTENT or CSDINTEG=REPEATABLE. However, these read integrity options are not available because the CSD has been defined to be opened in non-RLS mode. Read integrity is only available to files defined in RLS mode.

System action: CICS startup continues. The CSD is read without read integrity.

User response: Do one of the following to correct the error

- Specify CSDRLS=YES to make the CSD eligible to be opened in RLS mode.
- Remove the CSDINTEG keyword if you do not wish to open the CSD in RLS mode.

Module: DFHPADM

XMEOUT Parameter: *applid*

Destination: Console

DFHPA1941 *applid* **VTAM=NO HAS BEEN SPECIFIED BUT NO UOWNETQL PARAMETER HAS BEEN SPECIFIED. A DEFAULT UOWNETQL WILL BE USED.**

Explanation: VTAM=NO has been specified as a system initialization parameter but the UOWNETQL system initialization parameter is missing.

On a non-z/OS Communications Server system, CICS requires the UOWNETQL parameter in order to construct a default qualified LUNAME to be passed to the recovery manager domain. On a z/OS Communications Server system, the name is obtained at OPEN ACB time. Recovery manager uses the default qualified LUNAME when constructing unit of work (UOW) identifiers.

System action: If this is an initial start, CICS continues processing using a dummy default UOWNETQL of '9UNKNOWN'. This dummy UOWNETQL is invalid because the first character is a number. UOWNETQL is given this invalid name to highlight the problem.

If this is a cold, warm or emergency start, the name used on the previous run is restored and used.

User response: Specify a valid UOWNETQL system initialization parameter.

Module: DFHPADM

Destination: Console

DFHPA1942 *applid* **CSDRLS=YES BUT RLS=NO. CSDRLS=NO WILL BE USED.**

Explanation: The system initialization parameter CSDRLS=YES has been specified but RLS=YES has not been specified. This means that if initialization were to continue with these parameter settings the open of the CSD in record level sharing (RLS) mode would fail because RLS is not available in the system.

CICS requires that if you specify CSDRLS=YES, RLS must be enabled by specifying RLS=YES.

System action: CICS continues processing but forces CSDRLS=NO.

User response: If CSDRLS is required, bring CICS up with RLS=YES.

Module: DFHPADM

Destination: Console

DFHPA1943 *applid* **START=COLD OR START=INITIAL MAY NOT BE SPECIFIED WITH OFFSITE=YES. CICS IS TERMINATED.**

Explanation: The system initialization override OFFSITE=YES has been specified but START=COLD or START=INITIAL has also been specified. OFFSITE=YES means that CICS is being restarted in offsite recovery mode, but recovery is not possible on a cold or initial start, so this combination of system initialization parameters is incompatible.

System action: CICS initialization is terminated.

User response: You should specify START=AUTO when restarting CICS in OFFSITE recovery mode.

If you intended to perform a cold or initial start, and specified OFFSITE=YES in error, either change the OFFSITE override to NO, or remove it and allow it to default to NO.

Module: DFHPADM

Destination: Console

DFHPA1944 *applid* **CSDRECOV=ALL CANNOT BE SPECIFIED WITHOUT A CSDFRLOG IF CSDRLS=NO. CICS IS TERMINATED.**

Explanation: The system initialization parameter CSDRECOV=ALL has been specified together with CSDRLS=NO, but CSDFRLOG has either not been specified, or has been specified as NO.

If the CSD is to be accessed in non-RLS mode (CSDRLS=NO) and forward recovery is specified (CSDRECOV=ALL), a forward recovery log must also be specified using the CSDFRLOG system initialization parameter.

If the CSD is to be accessed in RLS mode (CSDRLS=YES), the recovery attributes are obtained from the VSAM catalog and CSDRECOV and CSDFRLOG are ignored. For this reason, the check for CSDFRLOG when CSDRECOV=ALL is not carried out when CSDRLS=YES.

System action: CICS initialization is terminated.

User response: You should specify CSDFRLOG=*nn* when you specify CSDRECOV=ALL together with CSDRLS=NO, where *nn* is a number between 1 and 99.

If you want to access the CSD in non-RLS mode, but also choose to specify the recovery attributes for the CSD in the VSAM catalog, the system initialization parameters relating to CSD recovery attributes are not used. However, you are still required to have a consistent set of these parameters.

Module: DFHPADM

Destination: Console

DFHPA1945 *applid sitname* **MUST BE LINKEDITED WITH THE NORENT OPTION. CICS IS TERMINATED.**

Explanation: The system initialization table *sitname* has been link-edited with the RENT option, which means CICS will not have write access to it.

System action: CICS initialization is terminated.

User response: You should re-link the system initialization table with the NORENT option.

Module: DFHPADM

Destination: Console

DFHPA1946 *applid* **APPLID is already in use by another CICS in the sysplex. CICS is terminated.**

Explanation: The specific *applid* specified in the SIT or the SIT overrides is already in use by another CICS system in the sysplex. The specific applids for different CICS systems in the sysplex must be distinct.

System action: CICS initialization is terminated.

User response: You should ensure that a unique applid is provided for each CICS system within the sysplex.

Module: DFHPADM

XMEOUT Parameter: *applid*

Destination: Console

DFHPA1947 *applid* **A PSDINT VALUE GREATER THAN ZERO WAS SPECIFIED WITH PSTYPE=NOPS. PSDINT HAS BEEN RESET TO 0.**

Explanation:

A conflict has been detected. PSTYPE=NOPS has been specified dur
startup together with a non-zero value for PSDINT. PSTYPE=NOPS d
z/OS Communications Server persistent session support. Therefore
mutually exclusive with PSTYPE=NOPS.

System action:

The PSDINT value defaults to 0. CICS attempts to continue with z/
persistent session support disabled.

User response:

Before you next initialize CICS, alter the system initialization
parameters so that either PSDINT=0 or PSTYPE=SNPS or MNPS.
See the CICS System Definition Guide for further information.

Module:

DFHPADM

Destination: Console

DFHPA1948 *applid* **MORE THAN FOUR PARAMETERS SPECIFIED FOR SIT OVERRIDE GRPLIST. ADDITIONAL PARAMETERS ARE IGNORED.**

Explanation:

The system initialization parameter GRPLIST has been specified w
more than the permitted four parameters and the PARMERR=ABEND SI
option is not set.

System action:

The additional parameter(s) are ignored and system initializatio

User response:

Before you next initialize CICS, alter the GRPLIST system initia
parameters so that a maximum of four resource definition groups
specified.
See the CICS System Definition Guide for further information.

Module:

DFHPADM

Destination: Console

DFHPCnnnn messages

DFHPC0401 *applid* **Abend** *abcode* **issued by** *yyy* **task.**

Explanation: A CICS task has abnormally terminated with CICS transaction abend code *abcode*. *yyy* identifies the task, for example TCP (terminal control).

A task abend has been requested for a system task. CICS is abnormally terminated with a system dump.

System action: CICS terminates abnormally with a dump.

User response: See the description of abend *abcode* for further guidance.

Module: DFHABAB

XMEOUT Parameters: *applid, abcode,yyy*

Destination: Console

DFHPC0402 *applid* **Error with kernel error code** *errorcode* **has occurred while processing transaction abend** *abcode* **in transaction** *tranid*

Explanation: A program check, abend, loop, or a second transaction abend has occurred while processing a transaction abend and CICS is unable to complete the original transaction abend.

System action: CICS processing is terminated.

User response: This is a severe error in CICS internal processing. You need further assistance from IBM to resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHABAB

XMEOUT Parameters: *applid, errorcode, abcode, tranid*

Destination: Console

DFHPC0405 *applid* **Abend** *abcode2* **has been issued while processing abend** *abcode1* **for the same task, transaction** *tranid***.**

Explanation: Transaction *tranid* has abnormally terminated with abend code *abcode1*. While CICS was backing out transaction *tranid*, another abend (namely *abcode2*) occurred. CICS was unable to process the original *abcode* abend correctly.

System action: CICS is terminated with a dump.

User response: Investigate why abend *abcode1* occurred. It may be due to an error in CICS abend handling.

Module: DFHABAB

XMEOUT Parameters: *applid, abcode2,abcode1, tranid*

Destination: Console

DFHPC0408 *applid* **Abend** *abcode* **has been issued during post commit processing, transaction** *tranid***.**

Explanation: During post commit processing for transaction *tranid*, the transaction issued abend *abcode* An abend during transaction post commit processing implies that a resource manager cannot syncpoint correctly, and thus that data integrity is at risk.

System action: CICS terminates abnormally with a system dump.

User response: See the description of abend *abcode* for further guidance.

Module: DFHABAB

XMEOUT Parameters: *applid, abcode,tranid*

Destination: Console

DFHPC0409 *applid* **Abends** *abcode2* **and** *abcode3* **have been issued while processing abend** *abcode1* **for the same task, transaction** *tranid***.**

Explanation: A task has abnormally terminated with abend code *abcode1*. While processing this abend, the task abnormally terminated twice more (in CICS code) with abends *abcode2* and *abcode3* in that sequence. This may be a permanent abend loop.

System action: CICS terminates abnormally with a system dump.

User response: See the description of abend *abcode1* for further guidance. You may need further assistance from IBM to resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHABAB

XMEOUT Parameters: *applid, abcode2,abcode3, abcode1, tranid*

Destination: Console

DFHPDnnnn messages

DFHPD0101 **Pointer to** *xxxxxxxx* **at offset** *X'offset'* **is invalid.**

Explanation: A pointer to a block of type *xxxxxxxx*, whose address is at offset *offset* in the block just formatted, is invalid.

System action: Dump formatting continues after skipping any sections affected by the error.

User response: Either the pointer to the required area was corrupted, the pointer has not been initialized, or the address was valid but the area was not present in the dump. In the latter case, if the area is essential for diagnosing the problem, a fresh dump which includes the missing area has to be obtained.

It is possible that the storage is present in the dump, and the pointer has been initialized with its address, but the storage has not been referred to by CICS code. You can check this by browsing the storage in the dump at this address.

Module: DFHDUFFT, DFHDUFUT, DFHXRDUF

Destination: SYSPRINT

DFHPD0102 Pointer to *xxxxxxxx* **at offset** *X'offset'* **is zero.**

Explanation: A pointer to a block of type *xxxxxxxx*, whose address is at offset *offset* in the block just formatted, is zero.

System action: Dump formatting continues after skipping any sections affected by the error.

User response: The area may have been corrupted or not set up correctly. It is also possible that the zero value is valid. This depends on the circumstances or timing of the dumps collection; for example, a zero value is valid before the block is initialized.

Module: DFHDUFFT, DFHDUFUT, DFHXRDUF

Destination: SYSPRINT

DFHPD0103 *xxxxxxxx* **address** *X'address'* **is invalid.**

Explanation: The address *address* of a block of type *xxxxxxxx* is invalid.

System action: Dump formatting continues after skipping any sections affected by the error.

User response: Either the pointer to the required area was corrupted, the pointer has not been initialized, or the address was valid but the area was not present in the dump. In the latter case, if the area is essential for diagnosing the problem, a fresh dump which includes the missing area has to be obtained.

Module: DFHDUFFT, DFHDUFUT, DFHXRDUF

Destination: SYSPRINT

DFHPD0104 Address of *xxxxxxxx* **is zero.**

Explanation: The address of a block of type *xxxxxxxx* is zero.

System action: Dump formatting continues after skipping any sections affected by the error.

User response: The area may have been corrupted or not set up correctly. It is also possible that the zero value is valid. This depends on the circumstances or timing of the dumps collection; for example, a zero value is valid before the block is initialized.

Module: DFHDUFFT, DFHDUFUT, DFHXRDUF

Destination: SYSPRINT

DFHPD0105 A loop has been detected. *xxxxxxxx* **at address** *X'address'* **already encountered.**

Explanation: The formatting program avoids loops resulting from corrupted control block chains by checking for duplicate addresses. The block *xxxxxxxx* at address *address* has already been encountered and may already have been formatted.

System action: Dump formatting continues after skipping any sections affected by the error.

User response: Check the chain fields in control blocks of the same type which have already been processed. Otherwise the problem may be caused by the timing of the dumps collection, if for example this occurs before the block is initialized.

Module: DFHDUFFT, DFHDUFUT

Destination: SYSPRINT

DFHPD0106 An error has occurred while formatting *xxxxxxxx***.**

Explanation: An error has occurred during the formatting of a block of type *xxxxxxxx*.

System action: Dump formatting continues after skipping any sections affected by the error.

User response: If no data has been formatted for the block then the block address was probably invalid. In this case see message DFHPD0101.

If part of the block has been successfully formatted then it is possible that the length of the control block is incorrect. The length may have been overwritten which may provide a clue to the problem.

Module: DFHDUFUT, DFHDUFFT

Destination: SYSPRINT

DFHPD0107 Eyecatcher for *xxxxxxxx* **at** *X'address'* **is invalid.**

Explanation: The eyecatcher field of a control block of type *xxxxxxxx* at address *address* has an incorrect value.

System action: Dump formatting continues after skipping any sections affected by the error.

User response: Investigate why the eyecatcher has been overwritten or why the control block has not been set up correctly. For more information on how to solve storage overwrite problems, see the *CICS Problem Determination Guide*.

Module: DFHDUFFT, DFHDUFUT

Destination: SYSPRINT

DFHPD0108 Unable to start browse of *xxxxxxxx*.

Explanation: An error has occurred when attempting to start browsing a table of type *xxxxxxxx*.

System action: Dump formatting continues after skipping any sections affected by the error.

User response: This error may be due to the Table Manager Program (TMP) control blocks being invalid. Check the TMP control blocks for the table in question.

Module: DFHDUFUT

Destination: SYSPRINT

DFHPD0109 Unable to get next entry in *xxxxxxxx* table.

Explanation: An error has occurred when attempting to access the next entry in a table of type *xxxxxxxx*.

System action: Dump formatting continues after skipping any sections affected by the error.

User response: This error may be due to the Table Manager Program (TMP) control blocks being invalid. Check the TMP control blocks for the table in question.

Module: DFHDUFUT

Destination: SYSPRINT

DFHPD0110 Unable to access data for *xxxxxxxx*

Explanation: The Interactive Problem Control System (IPCS) service routine ADPLMEMA was unable to find the requested data for control block *xxxxxxxx* in the dump.

System action: Dump formatting continues after skipping any sections impacted by the lack of data.

User response: Either the pointer to the required area was corrupted, which may in itself be a clue to the problem, or the address was valid but the area was not present in the dump. In the latter case, if the area is essential for diagnosing the problem obtain a fresh dump which includes the missing area.

Module: DFHPDX1

Destination: SYSPRINT

DFHPD0111I Pointer to *xxxxxxxx* at offset *X'offset'* is zero.

Explanation: A pointer to a block of type *xxxxxxxx*, whose address is at offset *offset* in the block just formatted, is zero.

System action: Dump formatting continues after skipping any sections affected by the zero pointer.

User response: The message is informatory, indicating that the area was zero at the time the dump was taken.

Module: DFHDUFFT, DFHDUFUT, DFHXRDUF

Destination: SYSPRINT

DFHPD0112I Address of *xxxxxxxx* is zero.

Explanation: The address of a block of type *xxxxxxxx* is zero.

System action: Dump formatting continues after skipping any sections affected by the block.

User response: The message is informatory, indicating that the area did not contain an address at the time the dump was taken.

Module: DFHDUFFT, DFHDUFUT, DFHXRDUF

Destination: SYSPRINT

DFHPD0113 This block has already been processed.

Explanation: The block whose heading line has just been printed has already been formatted in this section of the dump.

System action: The block is formatted again then any sections which may be impacted by the probable control block chain loop are skipped.

User response: Check the chain fields in the control blocks processed so far. This may provide a clue to the problem.

Module: DFHPD670

Destination: SYSPRINT

DFHPD0114 Invalid keyword *keyword*

Explanation: The keyword *keyword* is not valid for the CICS670 verb.

System action: The keyword is ignored.

User response: Correct the keyword and retry.

Module: DFHPDKW

Destination: SYSPRINT

DFHPD0115 CICS job not found during ASCB scan.

Explanation: The dump formatting program searched the dump for CICS jobs satisfying the specified JOB criterion (if any), but found none.

System action: There is only a severe problem when this message is followed by message DFHPD0120.

User response: If this is a severe error, ensure that the dump is the correct one, that the JOB keyword is correctly specified, and that the dump contains the necessary MVS and CICS data areas.

Module: DFHPDX1

Destination: SYSPRINT

DFHPD0116 Cannot access the AFCB.

Explanation: The formatting program was unable to access data for the AFCB.

System action: No formatting is performed.

User response: Ensure that the dump is the correct one, and that the dump contains the necessary MVS data areas.

Module: DFHPDX1

Destination: SYSPRINT

DFHPD0117 An error has occurred while formatting *xxxxxxxx*.

Explanation: An error has occurred during the formatting of a block of type *xxxxxxxx*.

Either the user has performed a GETMAIN for the storage, but the storage has not been referenced. Unreferenced storage may not be present in the dump.

Or the block address is invalid,

Or the length of the control block is incorrect.

System action: Dump formatting continues after skipping any sections affected by the error.

User response: If no data has been formatted for the block then either the storage has not been referenced, or the block address was invalid. If the block address was invalid, refer to message DFHPD0101.

If part of the block has been successfully formatted then it is possible that the length of the control block is incorrect. The length may have been overwritten which may provide a clue to the problem.

Module: DFHDUFFT, DFHDUFUT

Destination: SYSPRINT

DFHPD0118 Invalid argument for JOB=, CURRENT assumed

Explanation: The argument for the JOB operand of the CICS670 verb is invalid.

System action: The keyword is ignored.

User response: Correct the invalid argument and retry.

Module: DFHPDKW

Destination: SYSPRINT

DFHPD0119 Duplicate keyword *keyword* found. Value *value* accepted

Explanation: The CICS670 keyword *keyword* has already been encountered.

System action: The value *value* specified in the message overrides any value previously specified for keyword *keyword*. Processing continues with the new value *value*.

User response: Remove the duplicate keyword specified on the CICS670 verb.

Module: DFHPDKW

Destination: SYSPRINT

DFHPD0120 CICS IPCS exit is terminating.

Explanation: The CICS exit is terminating.

System action: The exit is returning to the Interactive Problem Control System (IPCS) without performing the requested function. A previous message gives the reason for this.

User response: To determine what action is necessary, refer to the message immediately preceding this one on the dump.

Module: DFHPDX1

Destination: SYSPRINT

DFHPD0121I Formatting control blocks for job *jobname*

Explanation: This shows the job name for the CICS system from which the dump was taken.

System action: Processing continues.

User response: None.

Module: DFHPDX1

Destination: SYSPRINT

DFHPD0122I End of dump for job *jobname*

Explanation: This marks the end of the output from the CICS print dump exit.

System action: None. The formatting job has just completed.

User response: None.

Module: DFHPDX1

Destination: SYSPRINT

DFHPD0123 A program check has occurred while processing keyword *keyword*

Explanation: A program check has occurred during processing of the keyword identified in the message.

System action: Dump formatting continues after skipping any sections affected by the error.

Note that the maximum possible number of occurrences of this message is five. If a sixth program

check occurs, the dump formatting program terminates abnormally with a DFHPD670 abend code.

User response: A dump should accompany this message, but if no dump is produced, rerun the job with //DFHSNAP DD SYSOUT=A included in the JCL job stream.

You need further assistance from IBM to resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHPDX1

Destination: SYSPRINT

DFHPD0124 Storage violation detected at *X'address'*. Leading SAA is invalid.

Explanation: The Storage Accounting Area (SAA) in the first eight bytes of the user storage element at address X'*address*' has been found to be invalid. However, the trailing SAA is valid.

System action: Dump formatting continues after skipping any sections affected by the error.

User response: Investigate why the storage has been overwritten or has not been set up correctly. For more information on how to solve storage overwrite problems, refer to the *CICS Problem Determination Guide*.

Module: DFHDUFUT

Destination: SYSPRINT

DFHPD0125 Storage violation detected at *X'address'*. Trailing SAA is invalid.

Explanation: The Storage Accounting Area (SAA) in the first eight bytes of the user storage element at address X'*address*' has been found to be invalid. However, the leading SAA is valid.

System action: Dump formatting continues after skipping any sections affected by the error.

User response: Investigate why the storage has been overwritten or has not been set up correctly. For more information on how to solve storage overwrite problems, refer to the *CICS Problem Determination Guide*.

Module: DFHDUFUT

Destination: SYSPRINT

DFHPD0126 Storage violation detected at *X'address'*. Leading and trailing SAAs are invalid.

Explanation: The Storage Accounting Areas (SAAs) in the first and last eight bytes of the user storage element at address X'*address*' are invalid.

System action: Dump formatting continues after skipping any sections affected by the error.

User response: Investigate why the storage has been overwritten or has not been set up correctly. For more information on how to solve storage overwrite problems, refer to the *CICS Problem Determination Guide*.

Module: DFHDUFUT

Destination: SYSPRINT

DFHPD0127 Storage violation detected at *X'address'*. Leading and trailing SAAs differ.

Explanation: Although the Storage Accounting Areas (SAAs) in the first and last eight bytes of the user storage element at address X'*address*' are valid, they do not match.

System action: Dump formatting continues after skipping any sections affected by the error.

User response: Investigate why the storage has been overwritten or has not been set up correctly. For more information on how to solve storage overwrite problems, refer to the *CICS Problem Determination Guide*.

Module: DFHDUFUT

Destination: SYSPRINT

DFHPD0128 Invalid data length *X'length'* specified for address *X'address'*.

Explanation: The offline utility DFHPD670 has detected a request for a block of data of invalid length X'*length* while formatting a system dump.

System action: Dump formatting usually continues after skipping any sections affected by this error.

User response: This message indicates a probable error in CICS code. You need further assistance from IBM to resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHDUFUT, DFHDUFFT

Destination: SYSPRINT

DFHPD0129 CICS Domain Anchor Blocks not found for AFCB. Scan will continue.

Explanation: The dump formatter has attempted to find a CICS dump in a TCB chain but has failed. The scan will continue. This is because DFHPD670 could not find the addresses of the CICS domain anchor blocks in the kernel global storage. Possible causes for this are

- Scanning the wrong TCB on the TCB chain. The scan will continue.
- The kernel global storage being overwritten or freemained.
- The dump being taken so early on in CICS initialization that the kernel global storage has not yet been set up.

System action: There is only a severe problem when this message is followed by message DFHPD0120.

User response: If this is a severe error. Try to recreate the original error and produce a valid system dump against which the dump formatter can be rerun.

If the problem recurs, you will need further assistance from IBM. Collect the sysprint output from the dump formatter and note any relevant messages. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHPDX1

Destination: SYSPRINT

DFHPD0130 Keyword *keyword1* is no longer valid. Replace with keyword *keyword2*

Explanation: In CICS Transaction Server for z/OS, Version 4 Release 2 the keyword *keyword1* has been replaced by *keyword2* for the CICS670 verb.

For example, the keyword PCP has been replaced by PG.

System action: The keyword *keyword1* is ignored.

User response: Correct the keyword and retry.

Module: DFHPDKW

Destination: SYSPRINT

DFHPD0131 CICS job *jobname* is for CICS version *version1*. CICS IPCS exit is for CICS version *version2*.

Explanation: The CICS job *jobname* being processed by the dump formatting program was executing under CICS version *version1*, but the dump formatting program was the one distributed with CICS version *version2*.

System action: Dump formatting continues for the CICS job.

User response: Unless formatting MRO control blocks, retry dump formatting for the CICS job using the dump formatting program for CICS version *version1*.

Module: DFHPDX1

Destination: SYSPRINT

DFHPD0133 Specified task not found.

Explanation: No transaction could be found for the task identifier specified in the taskid keyword parameter.

System action: Dump formatting continues after skipping any sections affected by the error.

User response: Correct the invalid taskid and retry.

Module: DFHPD670

Destination: SYSPRINT

DFHPD0134 Link to module CEEERRIP has failed.

Explanation: While formatting dump data an attempt was made to link to the Language Environment IPCS Verbexit program CEEERRIP. The link failed.

System action: Dump formatting continues after skipping any sections affected by the error.

User response: CEEERRIP is supplied on SYS1.MIGLIB. Ensure that SYS1.MIGLIB is in the concatenation for the MVS linklist or LPA.

Module: DFHPD670

Destination: SYSPRINT

DFHPD0135 Program check occurred with CEEERRIP in control.

Explanation: While formatting dump data a program check occurred in the Language Environment IPCS verbexit module CEEERRIP.

System action: Dump formatting continues after skipping any sections affected by the error.

User response: A dump should accompany this message. You need further assistance from IBM to resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHPD670

Destination: SYSPRINT

DFHPGnnnn messages

DFHPG0001 *applid* An abend (code *aaa/bbbb*) has occurred at offset *X'offset'* in module *modname*.

Explanation: An abnormal end (abend) or program check has occurred in module *modname*. This implies that there may be an error in the CICS code. Alternatively, unexpected data has been input, or storage has been overwritten.

The code *aaa/bbbb* is a 3-digit hexadecimal MVS code (if applicable), followed by a 4-digit alphanumeric CICS code. The MVS code is a system completion code (for example, 0C1 or D37). If an MVS code is not applicable, this field is filled with three hyphens. The CICS code is an abend code or a number referring to a CICS message (for example, AKEA is a CICS abend code; 1310 refers to message DFHTS1310).

System action: An exception entry is made in the trace table. A system dump is taken, unless you have specifically suppressed dumps in the dump table.

CICS continues unless you have specified in the dump table that CICS should terminate. If appropriate, an error return code is sent to the caller of this domain. In this case CICS could be terminated by the caller (for example, the domain manager, DFHDMDM). A message is issued to this effect.

Message DFHME0116 should be produced containing the symptom string for this problem.

User response: Notify the system programmer. If CICS is still running, it is necessary to decide whether to terminate CICS.

Look up the MVS code, if there is one, in the relevant MVS codes manual which is detailed in the book list in the front of this manual.

Next, look up the CICS alphanumeric code in this manual. This tells you, for example, whether the error was a program check, an abend, or a runaway, and may give you some guidance concerning user response.

If module *modname* is not crucial to the running of your CICS system, you may decide to continue to run and bring CICS down at a convenient time to resolve the problem.

If you cannot run without the full use of module *modname*, you should bring CICS down in a controlled shutdown.

You need further assistance from IBM to resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHPGAI, DFHPGAQ, DFHPGDD, DFHPGDM, DFHPGEX, DFHPGHM, DFHPGIS, DFHPGLD, DFHPGLK, DFHPGLU, DFHPGPG, DFHPGRP, DFHPGST, DFHPGXM.

XMEOUT Parameters: *applid, aaa/bbbb, X'offset', modname*

Destination: Console

DFHPG0002 *applid* **A severe error (code** *X'code'***) has occurred in module** *modname***.**

Explanation: An error has been detected in module *modname*. The code X'*code*' is the exception trace point id which uniquely identifies what the error is and where the error was detected.

System action: An exception entry (code X'*code*' in the message) is made in the trace table. A system dump is taken, unless you have specifically suppressed dumps in the dump table.

CICS continues unless you have specified in the dump table that CICS should terminate. If appropriate, an error return code is sent to the caller of this domain. In this case, CICS could be terminated by the caller (for example, the domain manager, DFHDMDM). A message is issued to this effect.

Message DFHME0116 should be produced containing the symptom string for this problem.

User response: This indicates a possible error in CICS code. The severity of its impact depends on the importance of the function being executed at the time of the error.

CICS may not have been terminated. If the message occurs once and module *modname* is not crucial to the running of your CICS system, you may decide to continue to run and bring CICS down at a convenient time to resolve the problem.

If the message recurs or if you cannot run without the full use of module *modname*, you should bring CICS down in a controlled shutdown.

You need further assistance from IBM to resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHPGAI, DFHPGAQ, DFHPGDD, DFHPGDM, DFHPGEX, DFHPGHM, DFHPGIS, DFHPGLD, DFHPGLK, DFHPGLU, DFHPGPG, DFHPGRP, DFHPGST, DFHPGXM.

XMEOUT Parameters: *applid, X'code',modname*

Destination: Console

DFHPG0004 *applid* **A possible loop has been detected at offset** *X'offset'* **in module** *modname***.**

Explanation: A CICS function is taking more time to process than CICS expects. A possible loop has been detected in module *modname* at offset X'*offset*'. This is the offset of the instruction which was executing at the time the error was detected.

System action: An exception entry is made in the trace table. A system dump is taken, unless you have specifically suppressed dumps in the dump table.

CICS continues unless you have specified in the dump table that CICS should terminate. If appropriate, an error return code is sent to the caller of this domain. In this case CICS could be terminated by the caller (for example, the domain manager, DFHDMDM). A message is issued to this effect.

Message DFHME0116 should be produced containing the symptom string for this problem.

User response: Notify the system programmer. If CICS has not been terminated, it is necessary to decide whether the problem is serious enough to bring CICS down.

Since some CICS functions can use a lot of processor time, this message may have been caused by a long-running function. So there may not be an error here. Usually, CICS purges a CICS function which exceeds the runaway task time interval which you have specified in the SIT (this is the ICVR which is measured in milliseconds). This means that module *modname* in the message is terminated and CICS continues.

If you have declared ICVR=0 in the SIT and you consider that module *modname* has gone into a loop, you need to terminate CICS in order to terminate the runaway function.

If CICS has terminated module *modname*, and you consider that it was not a runaway, you should increase the ICVR time interval in the SIT. You have to bring CICS down at a suitable time to do this permanently. But you can change the ICVR time interval temporarily online, using the CEMT transaction.

If raising the ICVR time does not solve the problem, you will need further assistance from IBM. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHPGAI, DFHPGAQ, DFHPGDD, DFHPGDM, DFHPGEX, DFHPGHM, DFHPGIS, DFHPGLD, DFHPGLK, DFHPGLU, DFHPGPG, DFHPGRP, DFHPGST, DFHPGXM.

XMEOUT Parameters: *applid, X'offset', modname*

Destination: Console

DFHPG0101 *date time applid terminal userid tranid* **Resource definition for** *progname* **has been added.**

Explanation: This is an audit log message indicating that program entry *progname* has been added using the INSTALL command. Where

- *terminal* is the netname or termid of the terminal associated with the transaction issuing the message. If there is no terminal associated with the transaction, the terminal name is suppressed.
- *userid* is the user identifier of the user associated with the transaction issuing the message.
- *tranid* is the transaction issuing the message.

System action: The system continues normally.

User response: None.

Module: DFHPGDD

XMEOUT Parameters: *date, time,applid, terminal, userid, tranid, progname*

Destination: CSPL

DFHPG0102 *date time applid terminal userid tranid* **Resource definition for** *progname* **has been deleted.**

Explanation: This is an audit log message indicating that program entry *progname* has been deleted using the REMOVE command. Where

- *terminal* is the netname or termid of the terminal associated with the transaction issuing the message. If there is no terminal associated with the transaction, the terminal name is suppressed.
- *userid* is the user identifier of the user associated with the transaction issuing the message.
- *tranid* is the transaction issuing the message.

System action: The system continues normally.

User response: None.

Module: DFHPGDD

XMEOUT Parameters: *date, time,applid, terminal, userid, tranid, progname*

Destination: CSPL

DFHPG0103 *date time applid terminal userid tranid* **Resource definition for** *progname* **has been replaced.**

Explanation: This is an audit log message indicating that program entry *progname* has been replaced using the INSTALL command. Where

- *terminal* is the netname or termid of the terminal associated with the transaction issuing the message. If there is no terminal associated with the transaction, the terminal name is suppressed.
- *userid* is the user identifier of the user associated with the transaction issuing the message.
- *tranid* is the transaction issuing the message.

System action: The system continues normally.

User response: None.

Module: DFHPGDD

XMEOUT Parameters: *date, time,applid, terminal, userid, tranid, progname*

Destination: CSPL

DFHPG0104 *date time applid* **Program** *progname* **is defined with DATALOCATION(ANY) but is linkedited with AMODE(24).**

Explanation: Program entry *progname* has been loaded. It is defined (using RDO or by program autoinstall) with DATALOCATION(ANY), but was linkedited with AMODE(24). Addresses returned to the program by EXEC CICS commands using the SET option may be above the 16MB line and not accessible by the AMODE(24) program.

The definition is accepted as the program can pass the storage on to another program which is linkedited with AMODE(31). See the description of DATALOCATION in the *CICS Resource Definition Guide*.

This message is issued the first time the program is loaded, linked to or XCTLed to, after being defined.

System action: The system continues normally.

User response: None.

Module: DFHPGLD, DFHPGLE, DFHPGLK, DFHPGLU, DFHPGPG, DFHPGXE, DFHPGEX

XMEOUT Parameters: *date, time,applid, progname*

Destination: CSPL

DFHPG0201 *date time applid terminal userid tranid* **Program autoinstall exit** *urmname* **indicated that program** *progname* **should not be installed.**

Explanation: An attempt has been made to autoinstall a program during link, XCTL, load or exit processing but the autoinstall exit set a return code indicating that the program should not be installed. Where

- *terminal* is the netname or termid of the terminal associated with the transaction issuing the message. If there is no terminal associated with the transaction, the terminal name is suppressed.
- *userid* is the user identifier of the user associated with the transaction issuing the message.
- *tranid* is the transaction issuing the message.

System action: Control is returned to the caller with an error response. For EXEC commands, EIBRESP is set to PGMIDERR and EIBRESP2 is set to indicate the cause of the error.

User response: None

Module: DFHPGAI

XMEOUT Parameters: *date, time,applid, terminal, userid, tranid, urmname, progname*

Destination: CSPL

DFHPG0202 *date time applid terminal userid tranid* **Program autoinstall exit** *urmname* **has abended with code** *abcode***. The program autoinstall function has been disabled.**

Explanation: An attempt has been made to autoinstall a program during link, XCTL, load or exit processing but the program autoinstall exit program abended with code *abcode*. Where

- *terminal* is the netname or termid of the terminal associated with the transaction issuing the message. If there is no terminal associated with the transaction, the terminal name is suppressed.
- *userid* is the user identifier of the user associated with the transaction issuing the message.
- *tranid* is the transaction issuing the message.

System action: Control is returned to the caller with an error response. For EXEC commands, EIBRESP is set to PGMIDERR and EIBRESP2 is set to indicate the cause of the error. The autoinstall function is disabled.

User response: Continue processing without program autoinstall or correct the error in the autoinstall exit program and reenable the autoinstall function using CEMT or the SPI.

Module: DFHPGAI

XMEOUT Parameters: *date, time,applid, terminal, userid, tranid, urmname, abcode*

Destination: Console and Transient Data Queue CSPL

DFHPG0203 *date time applid terminal userid tranid* **Program autoinstall exit** *urmname* **failed, reason** *reason***. The program autoinstall function has been disabled.**

Explanation: An attempt has been made to autoinstall a program during link, XCTL, load, or exit processing but the program autoinstall exit program is incorrectly defined or cannot be found on the load libraries. Where

- *terminal* is the netname or termid of the terminal associated with the transaction issuing the message. If there is no terminal associated with the transaction, the terminal name is suppressed.
- *userid* is the user identifier of the user associated with the transaction issuing the message.
- *tranid* is the transaction issuing the message.
- *reason* is one of the following
  - Program not defined
  - Program not enabled
  - Program not loadable
  - Remote program
  - AMODE error
  - Invalid COMMAREA
  - Recursion in autoinstall exit.

System action: Control is returned to the caller with an error response. For EXEC commands, EIBRESP is set to PGMIDERR and EIBRESP2 is set to indicate the cause of the error. The autoinstall function is disabled.

User response: Continue processing without program autoinstall or correct the problem and reenable the autoinstall function using CEMT or the SPI. Take the appropriate action to correct the problem

Program not defined
Install the autoinstall exit program.

Program not enabled
Reset the status of the autoinstall exit program.

Program not loadable
Ensure that the autoinstall exit program is in the load libraries.

Remote program
Ensure that the autoinstall exit program is defined as a local program.

AMODE error
Ensure that the autoinstall exit program is AMODE 31.

Invalid COMMAREA
Ensure that if the program autoinstall exit program passes the COMMAREA to another program, the COMMAREA is correctly passed.

Recursion in autoinstall exit
The autoinstall user-replaceable module has attempted to link to XCTL or to load another program which is not defined. Autoinstall

cannot be attempted with the autoinstall exit. Ensure that the program being referred to is defined using RDO.

Module: DFHPGAI

XMEOUT Parameters: *date, time,applid, terminal, userid, tranid, urmname, reason*

Destination: Console and Transient Data Queue CSPL

DFHPG0204 *date time applid terminal userid tranid* **Autoinstall for program** *progname* **failed. Program autoinstall model** *modelname* **is not defined.**

Explanation: An attempt has been made to autoinstall a program during link, XCTL, load or exit processing but the model selected for the autoinstall is not defined. Where

- *terminal* is the netname or termid of the terminal associated with the transaction issuing the message. If there is no terminal associated with the transaction, the terminal name is suppressed.
- *userid* is the user identifier of the user associated with the transaction issuing the message.
- *tranid* is the transaction issuing the message.

System action: Control is returned to the caller with an error response. For EXEC commands, EIBRESP is set to PGMIDERR and EIBRESP2 is set to indicate the cause of the error.

User response: Ensure that all programs to be used as models for the autoinstall function have been defined.

Module: DFHPGAI

XMEOUT Parameters: *date, time,applid, terminal, userid, tranid, progname, modelname*

Destination: CSPL

DFHPG0205 *date time applid terminal userid tranid* **Invalid value:** *value* **returned by program autoinstall exit** *urmname* **for field** *fieldname***.**

Explanation: An attempt has been made to autoinstall a program during link, XCTL, load, or exit processing but the program autoinstall exit returned an invalid value for a program definition field or the return code via the commarea. Where

- *terminal* is the netname or termid of the terminal associated with the transaction issuing the message. If there is no terminal associated with the transaction, the terminal name is suppressed.
- *userid* is the user identifier of the user associated with the transaction issuing the message.
- *tranid* is the transaction issuing the message.
- *value* is the returned value. This may be invalid or there may be a conflict between the load attribute specified and the load type of the model program. If the program type is shared, the load attribute must be resident.

System action: Control is returned to the caller with an error response. For EXEC commands, EIBRESP is set to PGMIDERR and EIBRESP2 is set to indicate the cause of the error.

User response: Ensure that the data returned by the autoinstall exit program is correct.

Module: DFHPGAI

XMEOUT Parameters: *date, time,applid, terminal, userid, tranid, value, urmname, fieldname*

Destination: CSPL

DFHPG0206 *date time applid terminal userid tranid* **Autoinstall for program** *progname* **failed. Programs starting with 'DFH' cannot be defined as remote programs.**

Explanation: An attempt has been made to autoinstall a program during link, XCTL, load, or exit processing with remote attributes but the program starts with the characters 'DFH'. Where

- *terminal* is the netname or termid of the terminal associated with the transaction issuing the message. If there is no terminal associated with the transaction, the terminal name is suppressed.
- *userid* is the user identifier of the user associated with the transaction issuing the message.
- *tranid* is the transaction issuing the message.

System action: Control is returned to the caller with an error response. For EXEC commands, EIBRESP is set to PGMIDERR and EIBRESP2 is set to indicate the cause of the error.

User response: Ensure that the autoinstall model program selected for programs starting 'DFH' is defined as a local program and that no remote attributes are specified by the program autoinstall exit program.

Module: DFHPGAI

XMEOUT Parameters: *date, time,applid, terminal, userid, tranid, progname*

Destination: CSPL

DFHPG0207 *date time applid terminal userid tranid* **Autoinstall for program** *progname* **failed. The program name is not valid.**

Explanation: An attempt has been made to autoinstall a program during link, XCTL, load or exit processing but the program name includes invalid characters. Where

- *terminal* is the netname or termid of the terminal associated with the transaction issuing the message. If there is no terminal associated with the transaction, the terminal name is suppressed.
- *userid* is the user identifier of the user associated with the transaction issuing the message.
- *tranid* is the transaction issuing the message.

System action: Control is returned to the caller with an error response. For EXEC commands, EIBRESP is set to PGMIDERR and EIBRESP2 is set to indicate the cause of the error.

User response: Ensure that the program name is valid.

Module: DFHPGAI

XMEOUT Parameters: *date, time,applid, terminal, userid, tranid, progname*

Destination: CSPL

DFHPG0208 *date time applid terminal userid tranid* **Autoinstall for program** *progname* **failed.**

Explanation: An attempt has been made to autoinstall a program during link, XCTL, load, or exit processing but the install of the definition failed. Either the AMODE/RMODE combination is invalid or the load attribute and type combination is invalid. Where

- *terminal* is the netname or termid of the terminal associated with the transaction issuing the message. If there is no terminal associated with the transaction, the terminal name is suppressed.
- *userid* is the user identifier of the user associated with the transaction issuing the message.
- *tranid* is the transaction issuing the message.

System action: Control is returned to the caller with an error response. For EXEC commands, EIBRESP is set to PGMIDERR and EIBRESP2 is set to indicate the cause of the error.

User response: Ensure the AMODE and RMODE are compatible and the program attribute is specified as resident if the program type is shared.

Module: DFHPGAI

XMEOUT Parameters: *date, time,applid, terminal, userid, tranid, progname*

Destination: CSPL

DFHPG0209 *date time applid terminal userid tranid* **Resource definition for** *progname* **has been autoinstalled using model** *modelname***.**

Explanation: This is an audit log message indicating that program entry *progname* has been added by the AUTOINSTALL function using the model *modelname*.

Where

- *terminal* is the netname or termid of the terminal associated with the transaction issuing the message. If there is no terminal associated with the transaction, the terminal name is suppressed.
- *userid* is the user identifier of the user associated with the transaction issuing the message.
- *tranid* is the transaction issuing the message.

System action: The system continues normally.

User response: None.

Module: DFHPGAI

XMEOUT Parameters: *date, time,applid, terminal, userid, tranid, progname, modelname*

Destination: CSPL

DFHPG0210 *date time applid terminal userid tranid* **Resource definition for** *progname* **has been system autoinstalled.**

Explanation: This is an audit log message indicating that program entry *progname* has been added by the system AUTOINSTALL function.

Where

- *terminal* is the netname or termid of the terminal associated with the transaction issuing the message. If there is no terminal associated with the transaction, the terminal name is suppressed.
- *userid* is the user identifier of the user associated with the transaction issuing the message.
- *tranid* is the transaction issuing the message.

System action: The system continues normally.

User response: None.

Module: DFHPGAI

XMEOUT Parameters: *date, time,applid, terminal, userid, tranid, progname*

Destination: CSPL

DFHPG0211 *date time applid terminal userid tranid* **Autoinstall for program** *progname* **failed. Program autoinstall model** *modelname* **is disabled.**

Explanation: An attempt has been made to autoinstall a program during link, XCTL, load or exit processing but the model selected for the autoinstall is disabled. Where

- *terminal* is the netname or termid of the terminal associated with the transaction issuing the message. If there is no terminal associated with the transaction, the terminal name is suppressed.
- *userid* is the user identifier of the user associated with the transaction issuing the message.
- *tranid* is the transaction issuing the message.

System action: Control is returned to the caller with an error response. For EXEC commands, EIBRESP is set to PGMIDERR and EIBRESP2 is set to indicate the cause of the error.

User response: Ensure that all programs to be used as models for the autoinstall function are enabled.

Module: DFHPGAI

XMEOUT Parameters: *date, time,applid, terminal, userid, tranid, progname, modelname*

Destination: Console and Transient Data Queue CSPL

DFHPInnnn messages

DFHPI0001 *applid* **An abend (code** *aaa/bbbb***) has occurred at offset** *X'offset'* **in module** *modname***.**

Explanation: An abnormal end (abend) or program check has occurred in module *modname*. This implies that there may be an error in the CICS code. Alternatively, unexpected data has been input, or storage has been overwritten.

The code *aaa/bbbb* is a 3-digit hexadecimal MVS code (if applicable), followed by a 4-digit alphanumeric CICS code. The MVS code is a system completion code (for example, 0C1 or D37). If an MVS code is not applicable, this field is filled with three hyphens. The CICS code is an abend code or a number referring to a CICS message (for example, AKEA is a CICS abend code; 1310 refers to message DFHTS1310).

System action: An exception entry is made in the trace table. A system dump is taken, unless you have specifically suppressed dumps in the dump table.

CICS continues unless you have specified in the dump table that CICS should terminate. If appropriate, an error return code is sent to the caller of this domain. In this case CICS could be terminated by the caller (for example, the domain manager, DFHDMDM). A message is issued to this effect.

Message DFHME0116 should be produced containing the symptom string for this problem.

User response: Notify the system programmer. If CICS is still running, it is necessary to decide whether to terminate CICS.

Look up the MVS code, if there is one, in the relevant MVS codes manual.

Next, look up the CICS alphanumeric code. This tells you, for example, whether the error was a program check, an abend, or a runaway, and may give you some guidance concerning user response.

If module *modname* is not crucial to the running of your CICS system, you may decide to continue and bring CICS down at a convenient time to resolve the problem.

If you cannot continue without the full use of module *modname* you should bring CICS down in a controlled shutdown.

You need further assistance from IBM to resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHPIDM, DFHPIWT

XMEOUT Parameters: *applid, aaa/bbbb, X'offset', modname*

Destination: Console

DFHPI0002 *applid* **A severe error (code** *X'code'***) has occurred in module** *modname***.**

Explanation: An error has been detected in module *modname*. The code X'*code* is the exception trace point ID which uniquely identifies what the error is and where the error was detected. For further information about CICS exception trace entries, refer to the *CICS Problem Determination Guide*.

System action: An exception entry (code *code* in the message) is made in the trace table. A system dump is taken, unless you have specifically suppressed dumps in the dump table.

CICS will continue unless you have specified in the dump table that CICS should terminate. If appropriate, an error return code is sent to the caller of this domain. In this case, CICS could be terminated by the caller (for example, the domain manager, DFHDMDM). A message will be issued to this effect.

Message DFHME0116 should be produced containing the symptom string for this problem.

User response: Inform the system programmer. This indicates a possible error in CICS code. The severity of its impact will depend on the importance of the function being executed at the time of the error.

CICS may not have been terminated.

If the message occurs once and module *modname* is not crucial to the running of your CICS system, you may decide to continue to run and bring CICS down at a convenient time to resolve the problem.

If the message recurs or if you cannot run without the full use of module *modname*, you should bring CICS down in a controlled shutdown.

You need further assistance from IBM to resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHPIDM, DFHPIST, DFHPIWT

XMEOUT Parameters: *applid, X'code',modname*

Destination: Console

DFHPI0004 *applid* **A possible loop has been detected at offset** *X'offset'* **in module** *modname***.**

Explanation: A CICS function is taking more time to process than CICS expects. A possible loop has been detected in module *modname* at offset X'*offset*. This is the offset of the instruction which was executing at the time the error was detected.

System action: An exception entry is made in the trace table. A system dump is taken, unless you have specifically suppressed dumps in the dump table.

Either this is a critical error and CICS is terminated, even if you have specified in the dump table that CICS should not terminate.

Or CICS will continue unless you have specified in the dump table that CICS should terminate. Message DFHME0116 should be produced containing the symptom string for this problem.

User response: Notify the system programmer. If CICS has not been terminated, it will be necessary to decide whether the problem is serious enough to bring CICS down.

This may not be an error as some CICS functions can use a lot of processor time, and this message may have been caused by a long-running function.

Usually, CICS will purge a CICS function which exceeds the runaway task time interval which you have specified in the SIT (this is the ICVR parameter, which is measured in milliseconds). This means that the module *modname* will be terminated and CICS will continue.

If you have declared ICVR=0 in the SIT and you consider that module *modname* has gone into a loop, you will have to terminate CICS in order to terminate the runaway function.

If CICS has terminated module *modname*, and you consider that it was not a runaway function, you should increase the ICVR time interval in the SIT. You will have to bring CICS down at a suitable time to do this permanently. You can change the ICVR time interval temporarily online, using the CEMT transaction.

If raising the ICVR time does not solve the problem, you need further assistance from IBM to resolve this problem.

Module: DFHPIRM

XMEOUT Parameters: *applid, X'offset', modname*

Destination: Console

DFHPI0110 *date time applid* **An attempt to start transaction CPIH by something other than an attach request from web domain has been made. This is not allowed.**

Explanation: An attempt has been made to start transaction CPIH by some method other than a transaction attach from web domain. Transaction CPIH is a system task and cannot be entered from a terminal.

System action: The CPIH transaction has not been started.

User response: Do not attempt to enter CPIH from a terminal or from any other device. CICS will start the transaction if a PIPELINE request is made via a TCP/IP attached client. No user action is required.

Module: DFHPIDSH

XMEOUT Parameters: *date, time,applid*

Destination: CPIO

DFHPI0111 *date time applid tranid* **Call to Websphere MQ function** *function* **returned with reason code** *reason_code***. Transaction abended.**

Explanation: A Websphere MQ function call issued by transaction CPIL was unsuccessful and has set a non-zero reason code. The transaction CPIL is used to start a PIPELINE for a message received from Websphere MQ.

System action: The transaction is abended with abend code APIJ.

User response: Check the Websphere MQ reason code in the MQ Messages and Codes manual, and examine the trace to determine why the MQ function call failed. You may need help from IBM to resolve this problem.

Module: DFHPILSQ

XMEOUT Parameters: *date, time,applid, tranid, function, reason_code*

Destination: CPIO

DFHPI0112 *date time applid tranid* **Unable to locate URIMAP to match HOST** *hostname* **and PATH** *pathname***. Unable to process inbound MQ message.**

Explanation: A Websphere MQ message has been received on queue *hostname* and with targetService *pathname*, but no match was found when attempting to locate a URIMAP with this host and path. No pipeline processing can be done for this Websphere MQ message.

System action: The inbound message is placed on the Dead Letter Queue and a report message is sent to the ReplyTo queue.

User response: Define and install a suitable URIMAP to match this combination of host and path which will identify the PIPELINE (and optionally WEBSERVICE) to process requests using this combination of queue name and targetService.

Module: DFHPILSQ

XMEOUT Parameters: *date, time,applid, tranid, hostname, pathname*

Destination: CPIO

DFHPI0113 *date time applid tranid* **URIMAP** *urimapname* **has been located for HOST** *hostname* **and PATH** *pathname***, but does not have USAGE(PIPELINE). Unable to process inbound MQ message.**

Explanation: A Websphere MQ message has been received on queue *hostname* and with targetService *pathname*, and a matching URIMAP *urimapname* was found. However, this URIMAP was not defined with USAGE(PIPELINE). Therefore, no pipeline processing can be done for this Websphere MQ message.

System action: The inbound message is placed on the Dead Letter Queue and a report message is sent to the ReplyTo queue.

User response: Define and install a suitable URIMAP to match this combination of host and path with USAGE(PIPELINE) which will identify the PIPELINE (and optionally WEBSERVICE) to process requests using this combination of queue name and targetService.

Module: DFHPILSQ

XMEOUT Parameters: *date, time,applid, tranid, urimapname, hostname, pathname*

Destination: CPIO

DFHPI0114 *date time applid tranid* **The pipeline MQ transport mechanism failed because a call to Websphere MQ function** *function* **returned with reason code** *reason_code***.**

Explanation: A Websphere MQ function call issued by the pipeline MQ transport mechanism was unsuccessful and has set a non-zero reason code.

System action: The pipeline MQ transport mechanism returns an exception response to the pipeline manager which performs further error processing.

User response: Check the Websphere MQ reason code in the MQ Messages and Codes manual, and examine the trace to determine why the MQ function call failed. You may need help from IBM to resolve this problem.

Module: DFHPITQ1

XMEOUT Parameters: *date, time,applid, tranid, function, reason_code*

Destination: CPIO

DFHPI0115 *date time applid tranid* **The service provider pipeline has returned a response message to the MQ transport, but the inbound request did not expect a response. The response message is ignored.**

Explanation: The Websphere MQ transport module has been called by a provider pipeline to return a response. However, the inbound request did not expect a response, and was sent as a one-way request. There is no reply-to queue on which to place the response. There is probably a mismatch between the service requester and the service provider definitions of the service, as the service requester specified that the request was a one-way request.

System action: The response is ignored by the Websphere MQ transport module. The transport module returns control to the pipeline manager with no error indication, and pipeline processing will complete normally.

User response: Check the definitions of the web service in the service requester and service provider and ensure that both indicate one-way request, or both indicate a reply is expected.

Module: DFHPITQ1

XMEOUT Parameters: *date, time,applid, tranid*

Destination: CPIO

DFHPI0116 *date time applid* **A one-way request has been received as a Websphere MQ persistent message, but the provider pipeline has abended or backed out changes to recoverable resources. The BTS process** *processname* **of processtype** *processtype* **has completed with status ABENDED and this process can be re-tried or used to provide information for reporting the failure.**

Explanation: A one way SOAP message has been received as a persistent Websphere MQ message, but the provider pipeline has abended or forced a backout of changes to recoverable resources. As there is no reply to queue, there is no way of informing the requester of the failure. A BTS process “processname” in completion state ABENDED contains information about the original Websphere MQ message, and this process and its containers can be used to retry the failing provider pipeline, or to report the failure appropriately.

System action: CICS has kept the information necessary to retry the failing provider pipeline in the named process. CICS takes no further action for the process.

User response: A user written transaction can ACQUIRE the process named in the message and take appropriate installation defined action. This could include one or more of the following.

- retry the failing process by issuing RESET ACQPROCESS followed by RUN ACQPROCESS ASYNC. Of course, the process could fail again in exactly the same way, and so an installation might wish to limit the number of retries. This can be done by using a container to contain a retry count, which would be incremented on each attempt, and taking a

different action when the count exceeds an installation defined threshold.

- recover information about the original Websphere MQ message received and record this on an installation defined log file. There are a number of containers associated with the process, DFHMQORIGINALMSG contains the message as received from Websphere MQ, DFHMQMSG contains the inbound message with RFH2 header removed, that is, the SOAP message. DFHMQCONT contains the MQMD control block with data relating to the MQGET that was issued by CICS pipeline processing Websphere MQ transport. After recovering any necessary information for reporting or logging the failure, the process can be cancelled (CANCEL ACQPROCESS).

Module: DFHPIDSQ

XMEOUT Parameters: *date, time,applid, processname, processtype*

Destination: CPIO

DFHPI0117 *date time applid* **BTS Process** *processname* **of processtype** *processtype***, which has completed with status ABENDED, has been cancelled. A provider pipeline started with a persistent Websphere MQ message has abended or backed out, but a response has been sent to the requester.**

Explanation: A provider pipeline was started by a persistent Websphere MQ message, and so a BTS process was created to ensure the information was not lost on a system failure. The provider pipeline abended or backed out changes to recoverable resources, and the BTS process completed with status ABENDED. As a response message has been returned to the requester (a Websphere MQ message on the reply-to queue) the requester will be aware of the failure and can take appropriate action. The BTS process in the provider system has been cancelled as there is no longer any need to retain it. An earlier message DFHBA0104 reported the ABENDED state of the process.

System action: CICS cancels the process that had completed with status ABENDED. All the data associated with the process is removed.

User response: None. This is an informative message, indicating that the process which completed with status ABENDED has been cancelled. CICS has sent a response to the requester indicating the failure.

Module: DFHPIDSQ

XMEOUT Parameters: *date, time,applid, processname, processtype*

Destination: CPIO

DFHPI0118 *applid* **CICS has attempted to use BTS processes to support pipelines started with Websphere MQ persistent messages. This attempt failed. CICS will continue, using channel based containers for the pipeline, but there is a risk of data loss in the event of a system failure. Ensure that BTS processtype, repository and local request queue are correctly defined and installed.**

Explanation: A persistent Websphere MQ message has been received to start a CICS provider pipeline, and CICS has attempted to create a BTS process to reliably hold the message data until the provider pipeline completes. However an error occurred when attempting to create the BTS process. CICS will continue processing persistent Websphere MQ messages to start provider pipelines, using channel based containers, but there is a risk that data from the persistent message may be lost in the event of a system failure.

System action: CICS continues to process inbound Websphere MQ persistent messages to drive provider pipelines, but in the event of a system failure, data originating in the persistent messages may be lost. This message is issued once on the first occurrence of a failure to create a BTS process. It is not issued for every occurrence of such a failure.

User response: Check that the steps stated in the section "Configuring your CICS system for Web Services" in the *CICS Web Services Guide*

Module: DFHPILSQ

XMEOUT Parameter: *applid*

Destination: Console

DFHPI0119 *date time applid* **The XML Toolkit could not be loaded. Some configurations of the CICS Supplied WS-Security handler are not usable.**

Explanation: CICS has detected that the XML Toolkit for z/OS v1.10 is not available. Some configurations of the CICS supplied WS-Security handler are unusable.

System action: None.

User response: If you intend to use the CICS supplied WS-Security handler then you must install the XML Toolkit for z/OS v1.10 and make it available to CICS.

Module: DFHPIDM

XMEOUT Parameters: *date, time,applid*

Destination: CPIO

DFHPI0300 *date time applid* **CICS could not invoke WEBSERVICE** *WebService* **because it was unable to find container** *container_name***.**

Explanation: The WEBSERVICE *WebService* could not be invoked because the container *container_name* was not found. An exception response from the program which gets the container was received.

System action: An exception response will be returned to the exec interface module which requested the INVOKE WEBSERVICE.

User response: None.

Module: DFHPIIW

XMEOUT Parameters: *date, time,applid, WebService, container_name*

Destination: CPIO

DFHPI0301 *date time applid* **CICS was unable to link to PROGRAM** *program_name* **while attempting to invoke WEBSERVICE** *WebService***.** *{The program abended. | The program was not defined. | The program was not enabled. | The program was not loadable. | No further details are available.}*

Explanation: CICS was attempting to perform an INVOKE WEBSERVICE command for webservice *WebService* but was unable to link to the given program *program_name*, or the linked program *program_name* abended.

System action: The link is abandoned and the INVOKE WEBSERVICE command returns appropriate EIBRESP and EIBRESP2 codes to the application program. Error processing will continue.

User response: Ensure that the program definition for *program_name* is correct. Correct the problem identified in the message. If the message reports no further information is available then trace can be referred to.

Module: DFHPIIW

XMEOUT Parameters: *date, time,applid, program_name, WebService,{1=The program abended., 2=The program was not defined., 3=The program was not enabled., 4=The program was not loadable., 5=No further details are available.}*

Destination: CPIO

DFHPI0400 *date time applid tranid* **The CICS pipeline HTTP transport mechanism failed to send a request because** *{the request was using an invalid host codepage | there was a socket error | the URL was invalid |the connection was closed | a socket request timed out | a proxy error was detected | there was an HTTP error | an invalid media type was used | there was an authorization problem | there was a problem with the client certificate | there was a URIMAP problem | SSL is not supported in CICS | there was a error with exit XWBAUTH | the URIMAP is disabled}***. Problem occurred for URI** *URI* **.**

Explanation: The CICS pipeline HTTP transport mechanism was unable to successfully handle the outbound request because of one of the following reasons

- The transport mechanism encountered a socket error.
- The connection that the request was trying to use was closed.
- A socket request timed out.
- A write request failed because an invalid codepage was used.
- The URL being parsed was invalid because an invalid escape character was encountered on the URI specified as input.
- There was a problem communicating with the HTTP proxy.
- There was an HTTP protocol error.
- An invalid media type was encountered.
- The current user is not authorized to submit the request.
- There was a problem with the client SSL certificate.
- The URIMAP that was used cannot be found or is invalid.
- SSL has not been enabled for CICS.
- There was a problem with global user exit XWBAUTH.
- The URIMAP that was used is disabled.

System action: The request is not sent. Error processing will continue.

User response: Depending on the error indicated in the message, ensure the host codepage you are using is correct or check for any socket errors indicated by examining any exception trace entries issued from sockets (SO) domain, or check that the URI specified as input does not contain any invalid characters or null delimiters, or check the XWBAUTH user global exit program for problems handling this request.

Module: DFHPITH

XMEOUT Parameters: *date, time,applid, tranid, {1=the request was using an invalid host codepage, 2=there was a*

socket error, 3=the URL was invalid,4=the connection was closed, 5=a socket request timed out, 6=a proxy error was detected, 7=there was an HTTP error, 8=an invalid media type was used, 9=there was an authorization problem, 10=there was a problem with the client certificate, 11=there was a URIMAP problem, 12=SSL is not supported in CICS, 13=there was a error with exit XWBAUTH, 14=the URIMAP is disabled}, URI

Destination: CPIO

DFHPI0401 *date time applid tranid* **The CICS pipeline HTTP transport mechanism failed to send a response or receive a request because** *{the codepage was not found | there was a socket error | the connection was closed | the client codepage was invalid | an HTTP chunking error occurred}***.**

Explanation: The CICS pipeline HTTP transport mechanism was unable to successfully handle the inbound request due to one of four reasons as indicated in the message. For instance, the transport may be unable to send a response due to the connection being closed or a sockets error. Also, the error could be caused by the request specifying a codepage which was either invalid or not found.

System action: The response is not sent. Error processing will continue.

User response: Depending on the error indicated in the message, ensure that the codepage you are using is correct, the connection being used is open, or check for any socket errors indicated by examining any exception trace entries issued from sockets (SO) domain.

Module: DFHPITH

XMEOUT Parameters: *date, time,applid, tranid, {1=the codepage was not found, 2=there was a socket error, 3=the connection was closed, 4=the client codepage was invalid, 5=an HTTP chunking error occurred}*

Destination: CPIO

DFHPI0402 *date time applid tranid* **The CICS pipeline HTTP transport mechanism failed to send a request because the URI specified an unknown host:** *hostname***.**

Explanation: The CICS pipeline HTTP transport mechanism was unable to successfully handle the outbound request because the host *hostname* from the URI is unknown.

System action: The request is not sent. Error processing will continue.

User response: Ensure that the URI specifies a host which is known and available.

Module: DFHPITH

XMEOUT Parameters: *date, time,applid, tranid, hostname*

Destination: CPIO

DFHPI0403 *date time applid tranid* **The CICS pipeline HTTP transport mechanism failed to receive a response because** *{the socket receive was timed out | the task was purged}***. Problem occurred for URI** *URI***.**

Explanation: The CICS pipeline HTTP transport mechanism did not successfully receive a response to the outbound request due to the reason indicated in the message.

- The socket receive was timed out.
- The task was purged.

System action: The request is abandoned. Error processing will continue.

User response: For a timeout error Investigate why the remote server failed to respond in a timely manner. Consider changing the RESPWAIT value for the pipeline which processes these web service requests. For a task purged error: Use the transaction dump from the AEXY abend to establish why the task was purged.

Module: DFHPITH

XMEOUT Parameters: *date, time,applid, tranid, {1=the socket receive was timed out, 2=the task was purged}, URI*

Destination: CPIO

DFHPI0450 *date time applid tranid* **The CICS transport mechanism in the pipeline was unable to successfully handle the request because of an invalid URI.**

Explanation: The CICS transport mechanism in the pipeline was unable to successfully handle the request because of an invalid URI.

System action: The request is not sent. Error processing continues.

User response: Check that the URI does not contain any invalid characters or null delimiters.

XMEOUT Parameters: *date, time, applid, tranid*

DFHPI0451 *date time applid tranid* **The CICS Transport Manager DFHPITS encountered an error while trying to link to program** *program_name***.**

Explanation: The CICS Transport Manager, DFHPITS, was unable to link to the given program, or the linked program abended.

System action: The link is abandoned. Error processing will continue.

User response: Ensure that the program definition is correct.

XMEOUT Parameters: *date, time, applid, tranid, program_name*

DFHPI0452 *date time applid tranid* **The CICS transport manager encountered an error while trying to locate URIMAP with HOST=localhost and PATH=***urimap_path***.**

Explanation: The CICS transport manager, DFHPITS, was unable to locate a URIMAP with the given path.

System action: Error processing continues.

User response: Ensure that a URIMAP with HOST=localhost attribute and that the given PATH exists.

XMEOUT Parameters: *date, time, applid, tranid, urimap_path*

DFHPI0453 *date time applid tranid* **The CICS transport manager encountered an error while trying to use URIMAP** *urimap_name***.**

Explanation: The CICS transport manager, DFHPITS, was unable to use the URIMAP named in the message.

System action: Error processing continues.

User response: Ensure that the URIMAP is defined as USAGE=PIPELINE and is enabled.

XMEOUT Parameters: *date, time, applid, tranid, urimap_name*

DFHPI0454 *date time applid tranid* **The CICS transport manager encountered an error while trying to use provider pipeline** *pipeline_name***.**

Explanation: The CICS transport manager, DFHPITS, was unable to use the provider pipeline named in the message.

System action: Error processing continues

User response: Ensure that the pipeline is a provider pipeline and that the PIPELINE resource is enabled.

XMEOUT Parameters: *date, time, applid, tranid, pipeline_name*

DFHPI0455 *date time applid tranid* **The CICS transport manager encountered an error while trying to use requester pipeline** *pipeline_name***.**

Explanation: The CICS transport manager, DFHPITS, was unable to use the requester pipeline named in the message.

System action: Error processing continues.

User response: Ensure that the pipeline is a requester pipeline and that the PIPELINE resource is enabled.

XMEOUT Parameters: *date, time, applid, tranid, pipeline_name*

DFHPI0456 *date time applid tranid* **The CICS transport manager encountered an error with the input data being greater then the maximum COMMAREA length.**

Explanation: The CICS transport manager encountered an error with the input data being greater then the maximum COMMAREA length.

System action: The request is not sent. Error processing continues.

User response: Check that the input data is suitable for the target program and that the maximum COMMAREA length specified in the URI is correct.

XMEOUT Parameters: *date, time, applid, tranid*

DFHPI0457 *date time applid tranid* **The CICS transport manager was unable to successfully handle the request because of the missing targetServiceUri parameter in the URI.**

Explanation: The CICS transport manager was unable to successfully handle the request because of the missing targetServiceUri parameter in the URI.

System action: The request is not sent. Error processing continues.

User response: Check that the URI contains all required parameters for the specified destination type.

XMEOUT Parameters: *date, time, applid, tranid*

DFHPI0500 *date time applid tranid* **The CICS Pipeline Manager DFHPIPM encountered an error while trying to link to program** *program_name***.** *{The program abended. | The program was not defined. | The program was not enabled. | The program was not loadable. | No further details are available.}* **PIPELINE:** *pipeline***.**

Explanation: The CICS Pipeline Manager, DFHPIPM, was unable to link to the given program, or the linked program abended.

System action: The link is abandoned. Error processing will continue.

User response: Ensure that the program definition is correct. Correct the problem identified in the message. If the message reports no further information is available then trace can be referred to.

Module: DFHPIPM

XMEOUT Parameters: *date, time,applid, tranid, program_name,{1=The program abended., 2=The program was not defined., 3=The program was not enabled., 4=The*

program was not loadable., 5=No further details are available.}, pipeline

Destination: CPIO

DFHPI0501 *date time applid tranid* **The CICS Pipeline Manager cannot proceed as the pipeline is unusable.** *{The pipeline was not found. | The pipeline is disabled. | The pipeline was of the wrong type.}* **PIPELINE:** *pipeline***.**

Explanation: The CICS Pipeline Manager DFHPIPM was unable to begin processing as the pipeline it has been invoked for is unusable. If the message indicates that the pipeline is of the wrong type then this means that a Requester pipeline was used where a Provider pipeline was expected or a Provider pipeline was used in place of a Requester one.

System action: In the requester case the transaction is abended with abend code APIB. In the provider case the transaction is abended with abend code API1.

User response: Correct the problem identified in the message.

Module: DFHPIPM

XMEOUT Parameters: *date, time,applid, tranid, {1=The pipeline was not found., 2=The pipeline is disabled., 3=The pipeline was of the wrong type.}, pipeline*

Destination: CPIO

DFHPI0502 *date time applid tranid* **The CICS Pipeline Manager has failed to receive a request from the underlying transport. TRANSPORT** *transport***, PIPELINE:** *pipeline***.**

Explanation: The CICS Pipeline Manager DFHPIPM was unable to receive a request from the underlying transport. This is due to a error in that transport.

System action: The transaction is abended with abend code API2.

User response: Check the previous messages issued by the transport to identify the cause of the problem.

Module: DFHPIPM

XMEOUT Parameters: *date, time,applid, tranid, transport, pipeline*

Destination: CPIO

DFHPI0503 *date time applid tranid* **The CICS Pipeline Manager has failed to send a response on the underlying transport. TRANSPORT** *transport***, PIPELINE:** *pipeline***.**

Explanation: The CICS Pipeline Manager DFHPIPM was unable to send a response on the underlying transport. This is due to a previous error in that transport.

System action: The request is abandoned. Error processing will continue.

User response: Check the previous messages issued by the transport to identify the cause of the problem.

Module: DFHPIPM

XMEOUT Parameters: *date, time,applid, tranid, transport, pipeline*

Destination: CPIO

DFHPI0504 *date time applid tranid* **The CICS Pipeline Manager has failed to communicate with a remote server due to an error in the underlying transport. TRANSPORT:** *transport***, PIPELINE** *pipeline***.**

Explanation: The CICS Pipeline Manager DFHPIPM failed to communicate with a remote server due to an error in the underlying transport.

System action: The request is abandoned. Error processing will continue.

User response: Check the previous messages issued by the transport to identify the cause of the problem.

Module: DFHPIPM

XMEOUT Parameters: *date, time,applid, tranid, transport, pipeline*

Destination: CPIO

DFHPI0505 *date time applid tranid* **The CICS Pipeline Manager has failed to communicate with a remote server as no URI was provided. PIPELINE:** *pipeline***.**

Explanation: The CICS Pipeline Manager DFHPIPM failed to communicate with a remote server as no URI was provided. Before CICS can make and a request to a remote server it must be provided with a URI identifying that server. This URI must either be provided in the container 'DFHWS-URI' or in the Pipeline configuration file.

System action: An exception trace entry is written. Error processing continues.

User response: Correct either the application logic or the configuration file so that the URI is provided.

Module: DFHPIPM

XMEOUT Parameters: *date, time,applid, tranid, pipeline*

Destination: CPIO

DFHPI0506 *date time applid tranid* **The CICS Pipeline Manager has failed to communicate with a remote server due to an invalid URI scheme being specified. URI:** *uri*, **PIPELINE:** *pipeline*.

Explanation: The CICS Pipeline Manager DFHPIPM failed to communicate with a remote server as a URI with an invalid scheme was provided. Before CICS can make and a request to a remote server it must be provided with a URI identifying that server.

System action: An exception trace entry is written. Error processing continues.

User response: Correct either the application logic or the configuration file so that a URI with a supported scheme is provided.

Module: DFHPIPM

XMEOUT Parameters: *date, time,applid, tranid, uri, pipeline*

Destination: CPIO

DFHPI0507 *date time applid tranid* **The CICS Pipeline Manager has failed to receive a response from an application handling task.**{*The request timed out.* | *The application task abended.* | *The connection to the application task was closed.*} **PIPELINE** *pipeline*.

Explanation: The CICS Pipeline Manager DFHPIPM was unable to receive a response from an application task. A separate task was used for the application handler as a context switch was required. The message indicates the reason the response was not received.

System action: The request will be treated as failed and error processing will continue.

User response: Check the message logs for the region in which the application task was running to determine the detailed cause of the problem.

Module: DFHPIPM

XMEOUT Parameters: *date, time,applid, tranid, {1=The request timed out., 2=The application task abended., 3=The connection to the application task was closed.}, pipeline*

Destination: CPIO

DFHPI0508E *date time applid* **The pipeline manager is unable to create or join a request stream because it is unable to reach the target for transaction** *tranid* **with userid** *userid*.

Explanation: The CICS pipeline manager attempted to create or join a request stream for transaction *tranid*. The transaction specifies a REMOTESYSTEM which cannot be contacted. This might be because IRC is not open or the target system is unavailable.

System action: The SOAP Handler attempting to create this request stream will create a SOAP server fault to return to the client. Error processing continues.

User response: Determine the remote system name from the *tranid* definition. Ensure that IRC is open and the IRC connection named is in service.

Module: DFHPIPM

XMEOUT Parameters: *date, time,applid, tranid, userid*

Destination: CPIO

DFHPI0509E *date time applid* **The pipeline manager is unable to create or join a request stream because transaction** *tranid* **is not installed.**

Explanation: The CICS pipeline manager attempted to create or join a request stream for transaction *tranid* which is not installed.

System action: The SOAP Handler that attempted to create the request stream will create a SOAP server fault to return to the client. Error processing continues.

User response: Add an RDO definition for *tranid* with a program name of DFHPIAP.

Module: DFHPIPM

XMEOUT Parameters: *date, time,applid, tranid*

Destination: CPIO

DFHPI0510E *date time applid* **The pipeline manager is unable to create or join a request stream because it has encountered a severe error for transaction** *tranid* **with userid** *userid*.

Explanation: The CICS pipeline manager attempted to create or join a request stream for transaction *tranid*. CICS encountered a severe error.

System action: A system dump is taken. The SOAP Handler attempting to create this request stream will create a SOAP server fault to return to the client. Error processing continues.

User response: None

Module: DFHPIPM

XMEOUT Parameters: *date, time,applid, tranid, userid*

Destination: CPIO

DFHPI0511 *date time applid tranid* **The CICS Pipeline Manager has failed to receive a response from the target Secure Token Service** *sts_uri*. **The response message failed to parse.**

Explanation: The CICS pipeline manager trust handler, DFHPITC, was unable to parse a response from the security token service identified.

System action: A fault is created and the pipeline returns it to the requester.

User response: Check the CICS trace and the secure token service logs to identify the cause of the XML error.

Module: DFHPITC

XMEOUT Parameters: *date, time,applid, tranid, sts_uri*

Destination: CPIO

DFHPI0512 *date time applid tranid* **The CICS Pipeline Manager has received a fault from the target Secure Token Service:** *sts_uri***. The fault had a fault code of** *fault_code***.**

Explanation: The CICS pipeline manager trust handler, DFHPITC, received a fault message from the security token service identified. This may indicate a problem with the secure token service.

System action: A fault is created and the pipeline returns it to the requester.

User response: Check the CICS trace and the secure token service logs to identify the cause of the fault and correct it if necessary.

Module: DFHPITC

XMEOUT Parameters: *date, time,applid, tranid, sts_uri, fault_code*

Destination: CPIO

DFHPI0513 *date time applid tranid* **The CICS Pipeline Manager has failed to find the required credentials in a response from the Secure Token Service:** *sts_uri***.**

Explanation: The CICS pipeline manager trust handler, DFHPITC, failed to find the required credentials in a response from the secure token service identified. This is commonly caused by a token, other than a UsernameToken, being returned when a UsernameToken was expected.

System action: A fault is created and the pipeline returns it to the requester.

User response: Check the CICS trace and the secure token service logs to identify the cause of the error.

Module: DFHPITC

XMEOUT Parameters: *date, time,applid, tranid, sts_uri*

Destination: CPIO

DFHPI0514 *date time applid tranid* **The CICS Pipeline Manager has failed to find the required credentials in a request. An element** *local_name* **, in namespace:** *namespace***, was expected.**

Explanation: The CICS pipeline manager trust handler, DFHPITC, failed to find the required credentials in a request, when it was expecting a specific type of identity token. This is commonly due to the expected token type not being present in the message, but may be caused by a configuration error in the security handler.

System action: A fault is created and the pipeline returns it to the requester.

User response: Check the CICS trace and the security handler configuration to determine the cause of the error.

Module: DFHPITC

XMEOUT Parameters: *date, time, applid, tranid, local_name, namespace*

Destination: CPIO

DFHPI0515 *date time applid tranid* **The CICS Pipeline Manager cannot run a CICS supplied WS-Security handler in pipeline:** *pipeline***. The XML Toolkit was not available.**

Explanation: The CICS pipeline manager has attempted to invoke the CICS WS-Security handler and the message content and configuration of the handler requires the XML Toolkit for z/OS. Please refer to the CICS documentation to determine which version of the Toolkit is required. CICS has detected that the XML Toolkit is not available. The request cannot be processed.

System action: The pipeline is driven in error mode.

User response: Ensure that the XML Toolkit library is available to CICS and restart CICS.

Module: DFHPITC

XMEOUT Parameters: *date, time,applid, tranid, pipeline*

Destination: CPIO

DFHPI0600 *date time applid* **The CICS SOAP handler has been passed a container that is not DATATYPE(CHAR).**

Explanation: The CICS soap handler DFHPISN was unable to convert the container to UTF-8 as the container does not have a datatype of CHAR.

System action: The soap handler is unable to process the input and returns a SOAP fault to the client/sender.

User response: Ensure that the DFHREQUEST and DFHWS-BODY containers use the DATATYPE(CHAR) option on the EXEC CICS PUT CONTAINER call.

Module: DFHPISN

XMEOUT Parameters: *date, time,applid*

Destination: CPIO

DFHPI0601 *date time applid* **The CICS SOAP handler has been passed data that does not begin with a '<' character.**

Explanation: The CICS soap handler DFHPISN has detected that the data in container DFHWS-BODY passed to it does not begin with a '<' character.

System action: The soap handler attempts to continue processing using the contents of the DFHWS-BODY container.

User response: If the contents of the DFHWS-BODY container is not expected to begin with a '<' character no further action is required. If the contents of the DFHWS-BODY container is expected to begin with a '<' character then check the data being put into it is correct and that the fromccsid parameter is set correctly.

Module: DFHPISN

XMEOUT Parameters: *date, time,applid*

Destination: CPIO

DFHPI0602 *date time applid* **The CICS SOAP handler failed to parse a message. The parser error code is** *errcode***. The error was found at offset** *offset* **into the message. Further information** *{a GETMAIN failure has occurred | an unspecified error has been detected in DFHPIEP | a non-SOAP tag has been found in the SOAP envelope | an in-line DTD has been found in the SOAP envelope | an unspecified error has occurred | the namespace of the SOAP envelope is not recognized | an XML processing instruction has been found | the SOAP envelope is not well formed | an unqualified attribute has been found on a SOAP tag | the PL/I XML parser returned a fatal error code | a problem occurred processing a tag in DFHPIEP | a problem occurred processing an attribute in DFHPIEP}***.**

Explanation: The CICS SOAP handler, DFHPISN, has failed to parse a message.

System action: The SOAP handler stops processing the SOAP message and creates a SOAP fault to return to the requester.

User response: Look up the parser error code *errcode* in the Enterprise PL/I Programming Guide to determine the type of parsing failure. If the parser error code is 0, the XML is valid but the SOAP is not. Use the offset *offset* into the SOAP message to determine the precise location of the failure. In some scenarios the contents of the container that held the problematic SOAP message may have been replaced with a SOAP Fault message. If this occurs you may need to take a trace in order to see the SOAP messages as they arrived in CICS.

XMEOUT Parameters: *date, time,applid, errcode, offset, {1=a GETMAIN failure has occurred, 2=an unspecified error has been detected in DFHPIEP, 3=a non-SOAP tag has been found in the SOAP envelope, 4=an in-line DTD has been found in the SOAP envelope, 5=an unspecified error has occurred, 6=the namespace of the SOAP envelope is not recognized, 7=an XML processing instruction has been found, 8=the SOAP envelope is not well formed, 9=an unqualified attribute has been found on a SOAP tag, 10=the PL/I XML parser returned a fatal error code, 11=an unspecified error has occurred, 12=a problem occurred processing a tag in DFHPIEP, 13=a problem occurred processing an attribute in DFHPIEP}*

DFHPI0603 I *date time applid* **The CICS SOAP handler has received an unexpected HTTP GET for URI** *Uri***.**

Explanation: The CICS SOAP handler was invoked with a HTTP GET method with URI *Uri*. CICS Web services support can handle only HTTP POST methods. A URIMAP resource might be missing if the URI is trying to discover a WSDL file.

System action: The soap handler is unable to process the input and returns a SOAP fault to the requester.

User response: If the request is attempting to discover the WSDL for a web service, ensure a URIMAP resource is installed that can match the path of the URI to the location of the WSDL.

XMEOUT Parameters: *date, time,applid, Uri*

DFHPI0700S *date time applid userid* **PIPELINE** *pipeline* **failed to install completely because PL/I support is not available and is required for pipeline usage.**

Explanation: The final stage of the installation of PIPELINE *pipeline* has failed because PL/I support is not available in this region. PL/I language support is a pre-requisite for using pipelines.

System action: The PIPELINE is disabled, but CICS continues normally.

User response: Add PL/I language support to your region and restart CICS. For instructions on how to do this, see *z/OS V1R4.0 Language Environment Customization*.

Module: DFHPIPL

XMEOUT Parameters: *date, time,applid, userid, pipeline*

Destination: CPIO

DFHPI0701I *date time applid userid* **PIPELINE** *pipeline* **has been created.**

Explanation: The Pipeline *pipeline* has been created. It now needs to undergo resolution processing. The CPIR transaction is attached automatically to do this. Once

resolution is complete, the pipeline will become available for use.

System action: CICS continues normally.

User response: None.

Module: DFHPIPL

XMEOUT Parameters: *date, time,applid, userid, pipeline*

Destination: CPIO

DFHPI0702E *date time applid userid* **PIPELINE** *pipeline* **encountered an error in the configuration file** *filename* **for pipeline at offset** *X'offset'***. The element name is** *elementname***.**

Explanation: During the pipeline resolution process, the configuration file is parsed and control blocks are built. During this process, an error was encountered. The error is at the offset indicated and starts with the element name shown.

System action: The pipeline is set to a DISABLED state and normal processing continues.

User response: Correct the configuration file. Ensure that the corrected file has been validated before discarding the pipeline (*pipeline*) and then re-installing it.

Module: DFHPIPL

XMEOUT Parameters: *date, time,applid, userid, pipeline, filename, X'offset', elementname*

Destination: CPIO

DFHPI0703I *date time applid userid* **PIPELINE** *pipeline* **is about to scan the WSDIR directory.**

Explanation: A scan is about to begin for pipeline *pipeline*. This will cause a WebService to be created for each of any wsbind files found in the directory specified in the WSDIR parameter of the pipeline.

System action: The system continues normally.

User response: None.

Module: DFHPIPL

XMEOUT Parameters: *date, time,applid, userid, pipeline*

Destination: CPIO

DFHPI0704I *date time applid userid* **PIPELINE** *pipeline* **Implicit scan has completed. Number of wsbind files found in the WSDIR directory:** *num_files***. Number of successful WEBSERVICE creates:** *num_ok***. Number of failed WEBSERVICE creates:** *num_failed***.**

Explanation: The scan for pipeline *pipeline* has completed. The number of wsbind files found in the directory specified for this pipeline by the WSDIR parameter is reported by *num_files*. The number that successfully created WebService resources is reported by *num_ok* and the number that failed WebService creation is reported by *num_failed*.

System action: CICS continues normally.

User response: If *num_failed* is non-zero, look for previous messages that may describe the errors. PI domain trace entries will also have been written to aid in diagnosing the problem(s).

Module: DFHPIPL

XMEOUT Parameters: *date, time,applid, userid, pipeline, num_files, num_ok, num_failed*

Destination: CPIO

DFHPI0705E *date time applid userid* **PIPELINE** *pipeline* **encountered an error writing the configuration to the derived shelf** *derived-shelf***. The response code from the HFS write was** *X'uss-response'* **and the reason code was '***X'uss-reason'***.**

Explanation: While doing an HFS write for pipeline *pipeline*, a bad response code was received. The HFS filename is *hfs_file*. The response code was *hfs_rs* and the reason code was *hfs_rc*.

System action: The pipeline is disabled and CICS continues normally.

User response: See the *z/OS UNIX System Services Messages and Codes* manual for the specified response and reason codes.

Module: DFHPIPL

XMEOUT Parameters: *date, time, applid, userid, pipeline, derived-shelf, X'uss-response', X'uss-reason'*

Destination: CPIO

DFHPI0706 E *date time applid userid* **PIPELINE** *pipeline* **resolution failed because it cannot be determined if this is a requester or provider pipeline.**

Explanation: After the pipeline is created, it undergoes the resolution process in a separate transaction. CICS has been unable to determine if the pipeline is a requester or a provider. The first element name must be *requester_pipeline* or *provider_pipeline*.

System action: The pipeline is set to a DISABLED state and CICS continues normally.

User response: Check that the configuration file is correct. If it is correct, ensure that the Language Environment resource definitions are correct for the version of z/OS. If not, correct the configuration file. You must discard and reinstall the PIPELINE resource *pipeline_name*

Module: DFHPIPL

XMEOUT Parameters: *date, time,applid, userid, pipeline*

Destination: CPIO

DFHPI0707E *date time applid userid* **PIPELINE** *pipeline* **resolution failed because namespace prefixes are not supp orted in the XML configuration file.**

Explanation: An XML element was discovered that had a namespace prefix specified. This is not supported.

System action: The pipeline is set to a DISABLED state and CICS continues normally.

User response: Correct the configuration file. Pipeline *pipeline_name* must be discarded and then re-installed.

Module: DFHPIPL

XMEOUT Parameters: *date, time,applid, userid, pipeline*

Destination: CPIO

DFHPI0708E *date time applid userid* **PIPELINE** *pipeline* **resolution failed because the XML configuration file cann ot be found.**

Explanation: After the pipeline has been created, it undergoes the resolution process in a separate transaction. This transaction has been unable to find the file specified in the *cfgfile* parameter of the resource definition, or in the EXEC CICS CREATE PIPELINE command.

System action: The pipeline is set to a DISABLED state.

User response: Ensure that the HFS filename is being specified correctly. A fully-qualified name must be used. Usual HFS restrictions, such as case-sensitivity and access rights, apply to the filename.

Module: DFHPIPL

XMEOUT Parameters: *date, time,applid, userid, pipeline*

Destination: CPIO

DFHPI0709E *date time applid userid* **PIPELINE** *pipeline* **resolution failed because the XML configuration file cannot be copied to the derived shelf.**

Explanation: After the pipeline has been created, it undergoes the resolution process in a separate transaction. Part of this transaction is to copy the XML configuration file to the derived shelf. The derived shelf is the shelf name with /<applid>/PIPELINE/ <pipeline>/ appended to it.

System action: The pipeline is set to a DISABLED state.

User response: Determine the reason for this failure and correct it, before discarding and then reinstalling the pipeline.

Module: DFHPIPL

XMEOUT Parameters: *date, time, applid, userid, pipeline*

Destination: CPIO

DFHPI0710I *date time applid userid* **PIPELINE** *pipeline* **was successfully discarded.**

Explanation: The PIPELINE was successfully discarded and is no longer available for use.

System action: Processing continues.

User response: None.

Module: DFHPIPL

XMEOUT Parameters: *date, time,applid, userid, pipeline*

Destination: CPIO

DFHPI0711E *date time applid userid* **PIPELINE** *pipeline* **resolution failed because the SAX parser returned error c ode** *X'errcode'***. The error was at offset** *X'offset'* **in the CONFIGFILE. The first eight bytes of data at this offset are: '***hexdata***'.**

Explanation: After the pipeline has been created, it undergoes the resolution process in a separate transaction. This transaction invokes a SAX parser. The parser has detected an error (*errcode*) at offset *offset* into the CONFIGFILE, as specified in RDO or in the EXEC CICS CREATE PIPELINE command. The first eight bytes of data (*hexdata*) are printed in hexadecimal to aid problem resolution.

System action: The pipeline is set to a DISABLED state and CICS continues normally.

User response: Refer to *Enterprise PL/I for z/OS Programming Guide* for the terminating exception code *errcode*. Correct the configuration file. Pipeline *pipeline_name* must be discarded and then re-installed.

Module: DFHPIPL

XMEOUT Parameters: *date, time,applid, userid, pipeline, X'errcode', X'offset', hexdata*

Destination: CPIO

DFHPI0712E *date time applid userid* **PIPELINE** *pipeline* **failed to install due to insufficient access rights to a HFS file.**

Explanation: A NOTAUTH condition was raised when an attempt to read the configuration file (CONFIGFILE) for this pipeline was made.

System action: The pipeline is disabled and CICS continues normally.

User response: Correct the access for the userid or ensure the correct userid is used for the installation of this pipeline.

Module: DFHPIPL

XMEOUT Parameters: *date, time,applid, userid, pipeline*

Destination: CPIO

DFHPI0713E *date time applid userid* **PIPELINE** *pipelinename* **The pipeline resolution transaction CPIR did not attach.**

Explanation: After the pipeline has been created, it undergoes the resolution process in a separate transaction. However, this transaction was not successfully attached. The pipeline is not installed.

System action: Processing continues.

User response: Examine the exception trace entry that shows the cause of the attachment error. Ensure that the CPIR transaction is defined and installed on your CICS system and that the program DFHPIITL is also defined and available.

Module: DFHPIPL

XMEOUT Parameters: *date, time,applid, userid, pipelinename*

Destination: CPIO

DFHPI0714E *date time applid userid* **PIPELINE** *pipeline* **failed to install. The directory specified in the WSDIR p arameter is invalid.**

Explanation: The HFS directory specified in the WSDIR parameter is invalid.

System action: The pipeline is NOT installed. CICS continues normally.

User response: Inspect the data specified and ensure that it is correct. Remember that case is important in specifying any HFS filename. Once correct, re-install the pipeline.

Module: DFHPIPL

XMEOUT Parameters: *date, time,applid, userid, pipeline*

Destination: CPIO

DFHPI0715I *date time applid userid* **PIPELINE** *pipeline* **explicit scan has completed. Number of wsbind files found in the WSDIR directory:** *num_files***. Number of WEBSERVICEs created or updated:** *num_ok***. Number of WEBSERVICEs not requiring an update:** *num_nun***. Number of failed WEBSERVICE creates or updates:** *num_failed***.**

Explanation: The explicit scan for pipeline *pipeline* has completed. The number of wsbind files found in the directory specified for this pipeline by the WSDIR parameter is reported by *num_files*. The number that successfully created or updated WebService resources is reported by *num_ok*, the number that did not require any update is reported by *num_nun* and the number that failed WebService creation is reported by *num_failed*.

System action: CICS continues normally.

User response: If *num_failed* is non-zero, look for previous messages that may describe the errors. PI domain trace entries will also have been written to aid in diagnosing the problem(s).

Module: DFHPIPL

XMEOUT Parameters: *date, time,applid, userid, pipeline, num_files, num_ok, num_nun, num_failed*

Destination: CPIO

DFHPI0716E *date time applid userid* **Unable to dynamically create a WEBSERVICE for PIPELINE** *pipeline***. The complete WSBIND file name is too long.**

Explanation: An attempt was made to dynamically create a webservice using the name of a wsbind file found in the WSDIR directory. The fully-qualified filename is longer than the maximum 255 characters.

System action: The webservice is NOT created. CICS continues normally.

User response: Use a shorter value for the WSDIR directory. The pipeline will need to be discarded and re-installed once the WSDIR parameter has been altered and any wsbind files either copied or re-generated to this new directory.

Module: DFHPIPL

XMEOUT Parameters: *date, time,applid, userid, pipeline*

Destination: CPIO

DFHPI0720 E *date time applid userid* **PIPELINE** *pipeline* **encountered an error in the configuration file** *filename* **at offset** *X'offset'*. **Found :** *element_found* **yet expected :** *{<service> | <transport> or <service> | a transport handler list |<service_handler_list> or <terminal_handler> | <handler> | <program> | <handler_parameter_list> | <name> | <cics_soap_1.1_handler> | <cics_soap_1.2_handler> |<header_program> | <service_handler_list> |<default_target> or a default handler list | <program_name> | <namespace> | <localname> |<mandatory> | true, false, 1 or 0 | <terminal_handler> | <service_parameter_list> |<service>, <transport> or <service_parameter_list> |/ | <localname>value</localname> | <namespace>value</namespace> | a tag that is valid within <service_handler_list> | <jvmserver> tag within <cics_soap_1.n_handler_java> | <jvmserver>value</jvmserver> | <repository>value</repository>}*.

Explanation: During the pipeline resolution process, the configuration file is parsed and control blocks are built. During this process, an error was encountered. The error was at offset *offset*. *element_found* was found when *element_expected* was expected.

System action: The pipeline is set to a DISABLED state and normal processing continues.

User response: Correct the configuration file. Ensure that the corrected file has been validated before discarding the pipeline (*pipeline*) and then re-installing it.

Module: DFHPIPL

XMEOUT Parameters: *date, time,applid, userid, pipeline, filename, X'offset', element_found, {1=<service>, 2=<transport> or <service>, 3=a transport handler list, 4=<service_handler_list> or <terminal_handler>, 5=<handler>, 6=<program>, 7=<handler_parameter_list>, 8=<name>, 9=<cics_soap_1.1_handler>, 10=<cics_soap_1.2_handler>,11=<header_program>, 12=<service>, 13=<service_handler_list>, 14=<default_target> or a default handler list, 15=<program_name>, 16=<namespace>, 17=<localname>, 18=<mandatory>, 19=true, false, 1 or 0, 20=<terminal_handler>, 21=<service_parameter_list>,22=<service>, <transport> or <service_parameter_list>, 23=/, 24=<localname>value</localname>, 25=<namespace>value</namespace>, 26=a tag that is valid within <service_handler_list>, 27=<jvmserver> tag within <cics_soap_1.n_handler_java>, 28=<jvmserver>value</jvmserver>, 29=<repository>value</repository>}*

Destination: CPIO

DFHPI0721E *date time applid userid* **PIPELINE** *pipeline* **encountered an error in the configuration file** *filename* **for pipeline at offset** *X'offset'*. **The value** *attribvalue* **for attribute** *attribname* **is not valid.**

Explanation: During the pipeline resolution process, the configuration file is parsed and control blocks are built. During this process, an error was encountered. The error is at the offset indicated. The named attribute was encountered with a value which is not allowed.

System action: The pipeline is set to a DISABLED state and normal processing continues.

User response: Correct the configuration file. Ensure that the corrected file is validated before discarding the pipeline (*pipeline*) and re-installing it. The schema can be checked to find the valid values.

Module: DFHPIPL

XMEOUT Parameters: *date, time,applid, userid, pipeline, filename, X'offset', attribvalue, attribname*

Destination: CPIO

DFHPI0722E *date time applid userid* **PIPELINE** *pipeline* **encountered an error in the configuration file** *filename* **for the pipeline. The WSSE_Handler configuration has values specified for mode and trust that are not valid in this pipeline.**

Explanation: During the pipeline resolution process, the configuration file is parsed and control blocks are built. During this process, an error was encountered. The combination of values specified for the mode and trust attribute are not allowed for this pipeline. The allowed combinations are different for Provider and Requester pipelines.

System action: The pipeline is set to a DISABLED state and normal processing continues.

User response: Correct the configuration file. Ensure that the corrected file is validated before discarding the pipeline (*pipeline*) and re-installing it.

Module: DFHPIPL

XMEOUT Parameters: *date, time,applid, userid, pipeline, filename*

Destination: CPIO

DFHPI0723E *date time applid userid* **PIPELINE** *pipeline* **encountered an error in the configuration file** *filename* **for the pipeline. The value for the algorithm specified for the** *element* **is not supported.**

Explanation: During the pipeline resolution process,

the configuration file is parsed and control blocks are built. During this process, an error was encountered. The algorithm URI specified is not supported by CICS.

System action: The pipeline is set to a DISABLED state and normal processing continues.

User response: Correct the configuration file. Ensure that the corrected file is validated before discarding the pipeline (*pipeline*) and re-installing it. Check the documentation for supported algorithms.

Module: DFHPIPL

XMEOUT Parameters: *date, time,applid, userid, pipeline, filename, element*

Destination: CPIO

DFHPI0724E *date time applid userid* **PIPELINE** *pipeline* **encountered an error in the configuration file** *filename* **for the pipeline. The WSSE_Handler configuration has both <authentication> and <sts_authentication> elements specified. You must only specify one of these elements.**

Explanation: During the pipeline resolution process, the configuration file is parsed and control blocks are built. During this process, an error was encountered. It is an error to specify both <authentication> and <sts_authentication> elements.

System action: The pipeline is set to a DISABLED state and normal processing continues.

User response: Correct the configuration file. Ensure that the corrected file is validated before discarding the pipeline (*pipeline*) and re-installing it.

Module: DFHPIPL

XMEOUT Parameters: *date, time,applid, userid, pipeline, filename*

Destination: CPIO

DFHPI0725E *date time applid userid* **PIPELINE** *pipeline* **encountered an error in the configuration file** *filename* **for the pipeline. The element** *element* **must be specified.**

Explanation: During the pipeline resolution process, the configuration file is parsed and control blocks are built. During this process, an error was encountered. Based on your current configuration values, CICS has determined that the indicated element is not present.

System action: The pipeline is set to a DISABLED state and normal processing continues.

User response: Correct the configuration file. Ensure that the corrected file is validated before discarding the pipeline (*pipeline*) and re-installing it. Check the documentation for supported algorithms.

Module: DFHPIPL

XMEOUT Parameters: *date, time,applid, userid, pipeline, filename, element*

Destination: CPIO

DFHPI0726E *date time applid userid* **PIPELINE** *pipeline* **encountered an error in the configuration file** *filename* **for the pipeline. The element** *element* **is a duplicate or unrecognized element.**

Explanation: During the pipeline resolution process, the configuration file is parsed and control blocks are built. During this process, an error was encountered. Based on your current configuration values, CICS has determined that the indicated element is either a duplicate of an existing element, or, it is an unrecognized element.

System action: The pipeline is set to a DISABLED state and normal processing continues.

User response: Correct the configuration file. Ensure that the corrected file is validated before discarding the pipeline (*pipeline*) and re-installing it. Check the documentation for supported elements.

Module: DFHPIPL

XMEOUT Parameters: *date, time,applid, userid, pipeline, filename, element*

Destination: CPIO

DFHPI0727 E *date time applid userid* **PIPELINE** *pipeline* **cannot be installed as it requires support for ICRX based identity tokens and these are not supported by the platform.**

Explanation: The pipeline requires support for ICRX based identity tokens. This in turn requires z/OS 1.11 or higher. CICS has determined that the version of z/OS in use is not adequate for installing the pipeline.

System action: The pipeline is set to a DISABLED state and normal processing continues.

User response: Switch to a different form of identity token in the pipeline configuration file, or upgrade to a newer version of z/OS.

Module: DFHPIPL

XMEOUT Parameters: *date, time, applid, userid, pipeline*

Destination: CPIO

DFHPI0728 E *date time applid userid* **PIPELINE** *pipeline* **encountered an error in the configuration file** *filename* **for the pipeline. The repository Axis2 configuration file** *element* **cannot be accessed by CICS.**

Explanation: During the pipeline resolution process, CICS parsed the pipeline configuration file and encountered an error. CICS cannot find the file that is specified for the Java SOAP pipeline repository.

System action: The PIPELINE resource is set to a DISABLED state and processing continues.

User response: Check that the pipeline configuration file points to a valid location for the repository. If no repository location is specified in the pipeline configuration file, CICS uses the **USSHOME** system initialization parameter to locate the repository. Check the specified file exists in the repository and that CICS has read permission for it. When you have fixed the problem, discard and reinstall the PIPELINE resource.

Module: DFHPIPL

XMEOUT Parameters: *date, time, applid, userid, pipeline, filename, element*

Destination: CPIO

DFHPI0729 E *date time applid userid* **PIPELINE** *pipeline* **encountered an error in the pipeline configuration file** *filename* **at offset** *X'offset'***. The CICS Java SOAP handler cannot be an intermediate message handler.**

Explanation: During the pipeline resolution process, CICS parsed the pipeline configuration file and encountered an error. The CICS Java SOAP handler cannot be specified as an intermediate message handler.

System action: The PIPELINE resource is set to a DISABLED state and processing continues.

User response: If required, the CICS Java SOAP handler is specified in the pipeline configuration file by the use of the <cics_soap_1.1_handler_java> or the <cics_soap_1.2_handler_java> element. In a provider pipeline this element must be specified as the terminal handler. In a requester pipeline this element must be specified as the first message handler in the <service_handler_list> element. Correct the pipeline configuration file and reinstall the PIPELINE resource.

Module: DFHPIPL

XMEOUT Parameters: *date, time, applid, userid, pipeline, filename, X'offset'*

Destination: CPIO

DFHPI0730 *date time applid* **An attempt to register a remote Web service as a participant in unit of work -** *X'uowid'* **has failed.**

Explanation: An error has been encountered while attempting to register a remote webservice as a participant in an atomic transaction, under the coordination of a local unit of work.

System action: The local unit of work, is not updated with a link for the remote webservice and a registration response is not sent to the remote webservice's registration end point. The remote webservice then times out and backs out any recoverable updates it has made.

User response: The problem may be the result of the coordinating unit of work timing out before the registration message is delivered to the region where it ran. If this is the case then consider extending the coordinating transaction's DTIMOUT value if set, or the coordinating region's FTIMOUT setting if DTIMOUT is set to NO. If the problem persists then you need further assistance from IBM to resolve this problem.

Module: DFHPIRS

XMEOUT Parameters: *date, time,applid, X'uowid'*

Destination: Console and Transient Data Queue CPIO

DFHPI0731 *date time applid* **An attempt to register unit of work -** *X'uowid'* **with a remote WSAT coordinating transaction has failed.**

Explanation: An error has been encountered while attempting to register a local webservice as a participant in an atomic transaction, under the coordination of a remote unit of recovery.

System action: The local unit of work is not updated with a link for the remote coordinating transaction, and the local webservice is not invoked. Instead a SOAP fault is returned to the coordinating transaction.

User response: The problem may be the result of a configuration error for one of the pipeline resources that the local region uses. The DFHWSATR pipeline is used to send the registration request and the DFHWSATP pipeline is used to receive a registration response. If either of these are not installed, disabled or incorrectly configured then the message processing that they are intended for may not take place. Alternatively, the error may be caused by the participant transaction timing out before a registration response is received. This interval is controlled by the value of the wscoor:Expires element in the coordination context that resulted in the registration attempt. Consider extending this time to allow registration to complete successfully. If the problem persists then you need further assistance from IBM to resolve this problem.

Module: XMEOUT Parameters: *date, time,applid, X'uowid'*

Destination: Console and Transient Data Queue CPIO

DFHPI0732 *date time applid* **A request to rollback unit of work -** *X'uowid'* **has been received from a remote WS-AT coordinating transaction.**

Explanation: During processing of an atomic transaction the remote WS-AT coordinating task has requested that CICS rolls back the specified unit of work.

System action: The specified unit of work will be rolled back.

User response: None.

Module: DFHPIRS

XMEOUT Parameters: *date, time, applid, X'uowid'*

Destination: CPIO

DFHPI0733 *date time applid* **A transaction timed out while waiting for a Prepare message from a remote WS-AT coordinator. The unit of work -** *X'uowid'* **will be rolled back.**

Explanation: A CICS transaction waiting for a Prepare message from a remote WS-AT coordinator has timed out.

System action: The specified unit of work will be rolled back.

User response: None.

Module: DFHPIPM

XMEOUT Parameters: *date, time, applid, X'uowid'*

Destination: CPIO

DFHPI0734 E *date time applid* **Error '***exception***' occurred whilst configuring PIPELINE** *pipeline* **within a JVMSERVER.**

Explanation: A Java exception was caught while CICS was attempting to configure PIPELINE *pipeline* for a JVM server. The message associated with the exception is *exception*.

System action: The associated PIPELINE resource is disabled.

User response: Fix the problem reported by the exception and then reinstall the PIPELINE resource.

Module: XMEOUT Parameters: *date, time, applid, exception, pipeline*

Destination: CPIO

DFHPI0735 E *date time applid* **Error '***exception***' occurred whilst configuring WEBSERVICE** *webservice* **within a JVMSERVER.**

Explanation: A Java exception was caught while CICS was attempting to configure WEBSERVICE *webservice* for a JVM server. The message associated with the exception is *exception*.

System action: The associated WEBSERVICE is unavailable for use.

User response: Fix the problem reported by the exception and then reinstall the WEBSERVICE resource.

Module: com.ibm.cicsts.axis2.CICSAxis2ApplicationHandler

XMEOUT Parameters: *date, time, applid, exception, webservice*

Destination: CPIO

DFHPI0736 E *date time applid* **PIPELINE** *pipeline***' encountered an error in the configuration file** *filename* **for the pipeline. The file has both <apphandler> and <apphandler_class> elements specified. You may only specify one of these elements.**

Explanation: During the pipeline resolution process, the configuration file is parsed and control blocks are built. During this process, an error was encountered. It is an error to specify both <apphandler> and <apphandler_class> elements.

System action: The pipeline is set to a DISABLED state and normal processing continues.

User response: Correct the configuration file. Ensure that the corrected file is validated before discarding the pipeline (*pipeline*) and re-installing it.

Module: DFHPIPL

XMEOUT Parameters: *date, time, applid, pipeline, filename*

Destination: CPIO

DFHPI0800E *date time applid userid* **Atomic Transaction processing failed because the SAX parser returned error code** *X'errcode'***. The error was at offset** *X'offset'* **in the SOAP message.**

Explanation: During processing for an Atomic Transaction, the SOAP message is parsed by a SAX parser. The parser has detected an error (*errcode*) at offset *offset* into the message. The first eight bytes of data (*hexdata*) are printed to aid problem resolution.

System action: The transaction abends.

User response: Obtain trace entries (level 2 for the PI

domain is required) and pass these onto your IBM service representative.

You will need further assistance from IBM to resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHPIAT

XMEOUT Parameters: *date, time,applid, userid, X'errcode', X'offset'*

Destination: CPIO

DFHPI0801I E *date time applid* **A one way message has been found in an atomic transaction message exchange for transaction** *TRAN***.**

Explanation: The Web service atomic transactions header handler in the pipeline has detected that a one way message flow has been sent as part of the atomic transaction message flows. This is not permitted.

System action: The Web service atomic transactions handler has issued a trace and abended. A SOAP fault message has also been sent to the client to indicate that CICS has detected an error.

User response: The error is in the client that sent an invalid atomic transactions message to CICS. If you have control over the client system, investigate why it is attempting to use one way messages as part of the atomic transaction.

Module: DFHWSATH

XMEOUT Parameters: *date, time, applid, TRAN*

Destination: Console and Transient Data Queue CPIO

DFHPI0901I *date time applid userid* **New WEBSERVICE** *WebService* **is being created during a scan against PIPELINE** *Pipeline***.**

Explanation: A new WSBIND file has been discovered on HFS during a scan. A corresponding CICS WEBSERVICE resource is being automatically created to represent it.

System action: None.

User response: None.

Module: DFHPISC

XMEOUT Parameters: *date, time,applid, userid, WebService, Pipeline*

Destination: CPIO

DFHPI0902I *date time applid userid* **WEBSERVICE** *WebService* **is being updated during a scan against PIPELINE** *Pipeline***.**

Explanation: An update has been detected for a WEBSERVICE resource. CICS compares the last modification time of the WSBIND file on HFS with the last modification time stored in the WEBSERVICE resource definition. If the WSBIND file on HFS is newer than the currently installed resource, the WEBSERVICE resource is updated. This process involves discarding the existing definition and installing a new one.

System action: If there is 'inflight' activity outstanding for this WEBSERVICE then the update will complete after that workload has ended.

User response: None.

Module: DFHPISC

XMEOUT Parameters: *date, time,applid, userid, WebService, Pipeline*

Destination: CPIO

DFHPI0903I *date time applid userid* **New URIMAP** *UriMap* **is being created during a scan against PIPELINE** *Pipeline* **for WEBSERVICE** *WebService***.**

Explanation: A new URIMAP resource is being installed during a scan of a PIPELINE.

System action: None.

User response: None.

Module: DFHPISC

XMEOUT Parameters: *date, time,applid, userid, UriMap, Pipeline, WebService*

Destination: CPIO

DFHPI0904I *date time applid userid* **URIMAP** *UriMap* **could not be created for WEBSERVICE** *WebService* **in PIPELINE** *Pipeline***. The URI that could not be allocated is: '** *Uri***'.**

Explanation: An attempt to automatically create a URIMAP for a scanned WEBSERVICE failed. This is probably because the URI specified in the wsbind file is already in use by another URIMAP.

System action: None.

User response: None.

Module: DFHPISC

XMEOUT Parameters: *date, time,applid, userid, UriMap, WebService, Pipeline, Uri*

Destination: CPIO

DFHPI0905 E *date time applid userid* **WEBSERVICE** *WebService* **within PIPELINE** *Pipeline* **cannot check for archive file because the WSDL name** *Name* **is too long.**

Explanation: During the creation of WEBSERVICE *WebService* CICS attempts to locate the WSDL archive file in the WSDIR directory. The name of the archive

file is based on the WSDL name, replacing the file name extension with '.zip'. The fully-qualified file name is longer than the maximum length of 255 characters.

System action: The WEBSERVICE resource installation continues but the ARCHIVEFILE attribute is not populated.

User response: Use a shorter value for the WSDIR directory or WSDL file name.

Module: **XMEOUT Parameters:** *date, time,applid, userid, WebService, Pipeline, Name*

Destination: CPIO

DFHPI0906 E *date time applid userid* **WEBSERVICE** *WebService* **within PIPELINE** *Pipeline* **cannot generate URIMAP for WSDL discovery because URI** *Uri* **is too long.**

Explanation: CICS cannot generate the URIMAP resource that discovers WSDL for WEBSERVICE *WebService*. The path for the generated URIMAP resource is based on the URI appending query string '?wsdl'. The generated path is longer than the maximum length of 255 characters.

System action: The WEBSERVICE resource installation continues but the URIMAP for WSDL discovery is not generated.

User response: Use a shorter URI or manually create a URIMAP that uses a suitable path to discover the WSDL.

Module: **XMEOUT Parameters:** *date, time,applid, userid, WebService, Pipeline, Uri*

Destination: CPIO

DFHPI0910I *date time applid userid* **WEBSERVICE** *WebService* **within PIPELINE** *Pipeline* **has been created.**

Explanation: A WEBSERVICE has been created and is now in the INITING state. It is not available for use until it has reached INSERVICE state.

System action: Processing continues. The WEBSERVICE will complete installation shortly.

User response: None.

Module: DFHPIWR

XMEOUT Parameters: *date, time,applid, userid, WebService, Pipeline*

Destination: CPIO

DFHPI0911E *date time applid userid* **WEBSERVICE** *WebService* **within PIPELINE** *Pipeline* **was not created because:** *{there is insufficient storage | there is a directory domain error | the specified PIPELINE is not installed | a lock cannot be obtained | there is a duplicate resource error}***.**

Explanation: WEBSERVICE *WebService* was not created. This error may be caused if the specified PIPELINE is not installed.

System action: The WEBSERVICE is not created.

User response: Ensure that the specified PIPELINE resource is installed and try again.

Module: DFHPIWR

XMEOUT Parameters: *date, time,applid, userid, WebService, Pipeline, {1=there is insufficient storage,2=there is a directory domain error, 3=the specified PIPELINE is not installed, 4=a lock cannot be obtained, 5=there is a duplicate resource error}*

Destination: CPIO

DFHPI0912I *date time applid userid* **WEBSERVICE** *WebService* **was successfully discarded.**

Explanation: The WEBSERVICE was successfully discarded and is no longer available for use.

System action: Processing continues.

User response: None.

Module: DFHPIWR

XMEOUT Parameters: *date, time,applid, userid, WebService*

Destination: CPIO

DFHPI0913I *date time applid userid* **WEBSERVICE** *WebService* **is being discarded.**

Explanation: A discard of a WEBSERVICE has been started but cannot complete at this time as 'inflight' work is outstanding.

System action: The WEBSERVICE discard will complete when the 'inflight' activity has ended.

User response: None.

Module: DFHPIWR

XMEOUT Parameters: *date, time,applid, userid, WebService*

Destination: CPIO

DFHPI0914 E *date time applid userid* **WEBSERVICE** *WebService* **is UNUSABLE because:** *{the WSBind file was not found | CICS is not authorized to read the WSBind file | there is insufficient storage to load the WSBind file | the HFS read for the WSBind file failed | writing the WSBind file to the shelf failed | the PIPELINE is incompatible with this WEBSERVICE | the CPIR resolution transaction could not be attached | the direction of the PIPELINE can't be determined | the WSBind file is corrupt | the WSBind file has an invalid version number | the WSBind file has an out of date version number | the WSBind file product number was not recognized | the PIPELINE is not a SOAP PIPELINE | the PIPELINE does not support SOAP version 1.2 | the PIPELINE is not configured for SOAP version 1.1 | the WSBind file is incompatible with the LOCALCCSID}***.**

Explanation: The WEBSERVICE failed to complete initialization.

System action: The WEBSERVICE has been put into the UNUSABLE state.

User response: Check that the CICS region id has permission to write to the PIPELINE resource's shelf directory structure. Check that the WSBind file exists and that CICS has read permission for it. Check that the WSDL file, if specified, exists and that CICS has read permission for it.

Check that the PIPELINE resource into which the WEBSERVICE is being installed is enabled and valid. Ensure that the correct definitions exist in the CICS CSD for the Language Environment version currently in use.

Consider how the WSBind file has been produced. It must be recognized as a valid WSBind file. If it is transferred between systems then this must be done in binary mode in order to avoid corruption of the file.

If there is a version error reported then regenerate the WSBind file using the correct version of the Web services assistants.

If a problem is reported with the LOCALCCSID then regenerate the WSBind file using the Web services Assistants and add the CCSID parameter. By default WSBind files are built to be compatible with US EBCDIC. CICS has detected that the LOCALCCSID is not compatible with US EBCDIC, so the WSBind file will have to be regenereated.

Check that if the WEBSERVICE represents an application in CICS that is going to implement a WebService then the PIPELINE is also configured in provider mode. Conversely, if the WEBSERVICE represents a WebService running on a remote server then the PIPELINE is configured in requester mode.

Check that the PIPELINE has been installed without errors.

A provider mode WEBSERVICE is one for which a PROGRAM has been specified. A requester mode WEBSERVICE is one for which no PROGRAM has been specified. The PROGRAM name (if needed) must be specified at the time that the WSBind file is generated.

Discard and reinstall the WEBSERVICE.

If the problem persists you may need to use the trace facility to determine the cause of the problem.

Module: DFHPIWR

XMEOUT Parameters: *date, time,applid, userid, WebService, {1=the WSBind file was not found, 2=CICS is not authorized to read the WSBind file, 3=there is insufficient storage to load the WSBind file, 4=the HFS read for the WSBind file failed, 5=writing the WSBind file to the shelf failed, 6=the PIPELINE is incompatible with this WEBSERVICE, 7=the CPIR resolution transaction could not be attached, 8=the direction of the PIPELINE can't be determined, 9=the WSBind file is corrupt, 10=the WSBind file has an invalid version number, 11=the WSBind file has an out of date version number, 12=the WSBind file product number was not recognized, 13=the PIPELINE is not a SOAP PIPELINE, 14=the PIPELINE does not support SOAP version 1.2, 15=the PIPELINE is not configured for SOAP version 1.1, 16=the WSBind file is incompatible with the LOCALCCSID}*

Destination: CPIO

DFHPI0915I *date time applid userid* **WEBSERVICE** *WebService* **is now INSERVICE and is ready for use.**

Explanation: The WEBSERVICE has completed initialization and is ready for use.

System action: Processing continues.

User response: None.

Module: DFHPIWR

XMEOUT Parameters: *date, time,applid, userid, WebService*

Destination: CPIO

DFHPI0916E *date time applid userid* **WEBSERVICE** *WebService* **within PIPELINE** *Pipeline* **was not created because it clashes with another WEBSERVICE of the same name in PIPELINE** *Pipeline***.**

Explanation: WEBSERVICE *WebService* was not created. This error was caused by a name clash with an existing WEBSERVICE that is already installed. The clash can occur if the same wsbind file is installed in two different PIPELINEs or if a wsbind file matches another wsbind file with a sufficiently similar name from any PIPELINE.

System action: The WEBSERVICE is not CREATED, the PIPELINE SCAN processing continues.

User response: Rename the wsbind file and retry the operation.

Module: DFHPISC

XMEOUT Parameters: *date, time,applid, userid, WebService, Pipeline, Pipeline*

Destination: CPIO

DFHPI0917 W *date time applid userid* **WEBSERVICE** *webservice* **might perform unpredictably as the PIPELINE** *pipeline* **is non-SOAP.**

Explanation: The WEBSERVICE has been installed into a non-SOAP PIPELINE and might not work as expected.

System action: Processing continues.

User response: Examine the PIPELINE definition to determine if SOAP support has been correctly configured.

Module: DFHPIWR

XMEOUT Parameters: *date, time, applid, userid, WebService, Pipeline.*

Destination: CPIO

DFHPI0996 *date time applid* **The Outbound Router program, DFHPIRT, has received a non-NORMAL response while attempting to read a container. The resulting error code is** *X'code'* **and the container name is** *container_name***.**

Explanation: The outbound router program, DFHPIRT, was unable to successfully operate as a trust client as it was unable to read a required container. A non-NORMAL response was returned from the EXEC CICS GET CONTAINER call. If the *code* was '099D'X a CONTAINERERR was returned. The *code* '099E'X indicates that a LENGERR was returned.

System action: The program abends.

User response: Ensure that the named container has been created and populated correctly before linking to the outbound router program.

Module: DFHPIRT

XMEOUT Parameters: *date, time,applid, X'code', container_name*

Destination: CPIO

DFHPI0997 *date time applid tranid pipeline* **The CICS pipeline manager has encountered an error:** *{PIPELINE not found | PIPELINE not active | PIPELINE mode mismatch | unhandled node failure |context switch failed | request stream creation failure | request stream transport error | target program unavailable or abended | channel error | channel not found | URI not found | invalid URI | authorization failure | program abend | unidentified problem | timeout occurred | no request message | there was a problem with file PIDIR | attempt to register a WS-AT context twice | empty DFHREQUEST container returned from a handler | req and resp containers both returned from a handler | empty DFHRESPONSE container returned from a handler | chunking request from non-terminal node | chunking request is incompatible with MTOM/XOP | chunking request not supported for this transport | transport function failed | bad mime type | failure to receive request | failure to send response to WS-Addressing endpoint}***.**

Explanation: The Pipeline Manager encountered a problem whilst attempting to process a message. This might be due to one of the following

- A configuration error or an unexpected event.
- An abandoned connection attempt due to an exceeded DTIMEOUT. This causes message DFHPI0400 to be issued.
- An exceeded RESPWAIT timeout while waiting for a response.
- An unexpected response from a handler program on the pipeline.

System action: None.

User response: Examine the trace and any prior messages to determine why the Pipeline Manager failed.

Module: DFHPIPM

XMEOUT Parameters: *date, time,applid, tranid, pipeline, {1=PIPELINE not found, 2=PIPELINE not active,3=PIPELINE mode mismatch, 4=unhandled node failure, 5=context switch failed,6=request stream creation failure, 7=request stream transport error, 8=target program unavailable or abended, 9=channel error, 10=channel not found, 11=URI not found, 12=invalid URI, 13=authorization failure, 14=program abend, 15=unidentified problem, 16=timeout occurred, 17=no request message, 18=there was a problem with file PIDIR, 19=attempt to register a WS-AT context twice, 20=empty DFHREQUEST container returned from a handler, 21=req and resp containers both returned from a handler, 22=empty DFHRESPONSE container returned from a handler, 23=chunking request from non-terminal node, 24=chunking request is incompatible with MTOM/XOP, 25=chunking*

request not supported for this transport, 26=transport function failed, 27=bad mime type, 28=failure to receive request, 29=failure to send response to WS-Addressing endpoint}

Destination: CPIO

DFHPI0998 *date time applid* **The Outbound Router program, DFHPIRT, has received a non-NORMAL response while attempting to get the pipeline name from the DFHWS-PIPELINE container. The resulting error code is** *X'code'***.**

Explanation: The Outbound Router program, DFHPIRT, was unable to successfully start the pipeline as it was unable to obtain the pipeline name from the DFHWS-PIPELINE container. A non-NORMAL response was returned from the EXEC CICS GET CONTAINER call. If the *code* was '099D'X then a CONTAINERERR was returned. The *code* '099E'X indicates that a LENGERR was returned.

System action: The program abends with an APIC abend.

User response: Examine the trace to determine why the Outbound Router failed. Ensure that the DFHWS-PIPELINE container has been created correctly before linking to the Outbound Router program, DFHPIRT, and that the pipeline name placed in this container is not larger than eight characters.

Module: DFHPIRT

XMEOUT Parameters: *date, time,applid, X'code'*

Destination: CPIO

DFHPI0999 *date time applid tranid* **The CICS pipeline manager has encountered a problem with file DFHPIDIR:** *{the file was not found | the file key length was too small | the file record size was too small | the file is full | the file control record is full | file recovery mode was not backout | there was an internal error | file failed to open or connect}***.**

Explanation: The pipeline manager encountered a problem attempting to open file DFHPIDIR. This might be due to one of the following

- The file might not exist.
- The file definition might not have been installed.
- The file key length is too small.
- The file record length is too small.
- The file is full.
- The file control record is full.
- The file recovery mode was not specified as backout.
- The file could not be connected to or opened.
- An internal error occurred.

System action: Processing ends. A SOAP fault is returned to the client.

User response: Examine the trace to determine why the pipeline manager failed.

Module: XMEOUT Parameters: *date, time, applid, tranid, {1=the file was not found, 2=the file key length was too small, 3=the file record size was too small, 4=the file is full, 5=the file control record is full, 6=file recovery mode was not backout, 7=there was an internal error, 8=file failed to open or connect}*

Destination: CPIO

DFHPI1000 *date time applid* **The Outbound Router program, DFHPIRT, has detected an invalid URI in the DFHWS-STSACTION container. The URI was '***uri***'.**

Explanation: The outbound router program, DFHPIRT, was unable to successfully operate as a trust client. It was unable to recognize the URI contained in the DFHWS-STSACTION container.

System action: The program abends.

User response: Ensure that the DFHWS-STSACTION container has been created and populated correctly before linking to the outbound router program.

Module: DFHPIRT

XMEOUT Parameters: *date, time, applid, uri*

Destination: CPIO

DFHPI1001 *date time applid* **Validation of a** *{request | response}* **message for WEBSERVICE** *webservicename* **and operation** *operationname* **failed. The failure response contains the following message: '***message***'.**

Explanation: Validation was requested for operation *operationname* of WEBSERVICE *webservicename*. The validation has been attempted and failed. Either the incoming SOAP message does not match the WSDL specified or there was a problem reading the WSDL.

System action: None.

User response: Consider the detailed *message*. It will indicate the nature of the problem. Usally this will include a message from the XML parser used to do the validation and will indicate a rule that has been broken by the SOAP message. If the problem is with a SOAP message sent to CICS then change the partner system to correct the SOAP message. If the problem is with a SOAP message generated by CICS then determine if the problem can be fixed by changing the CICS application. If the problem is caused by CICS then contact your IBM support representative for further assistance.

If the *message* indicates that the WSDL document cannot be found then this may be because the WEBSERVICE resource does not indicate the 'Wsdlfile' to use. The WSDL document must be specified when the WEBSERVICE resource is created. If you use the PIPELINE scan menchanism to create WEBSERVICE resources then you should ensure that a copy of the WSDL is included in the PIPELINE's 'Wsdir' directory along with the WSBind file.

Module: DFHPITL, DFHPIIW

XMEOUT Parameters: *date, time,applid, {1=request, 2=response}, webservicename, operationname,message*

Destination: CPIO

DFHPI1002 *date time applid* **Validation of a** *{request | response}* **message for WEBSERVICE** *webservicename* **and operation** *operationname* **was successful.**

Explanation: Validation was requested for a particular operation, *operationname*, for webservice *webservicename*. The validation has been performed successfully.

System action: None.

User response: None.

Module: DFHPITL, DFHPIIW

XMEOUT Parameters: *date, time,applid, {1=request, 2=response}, webservicename, operationname*

Destination: CPIO

DFHPI1003 *date time applid* **No current channel located. Validation cannot occur.**

Explanation: Validation was requested for a particular operation. This requires that a channel exists with containers present. No current channel could be found. Validation cannot occur in this situation.

System action: Validation is not attempted. The application program is invoked as though validation had not been requested.

User response: None.

Module: DFHPITL

XMEOUT Parameters: *date, time,applid*

Destination: CPIO

DFHPI1004 *date time applid* **The attempt to link to DFHPIVAL to perform validation failed.**

Explanation: Validation was requested for a particular operation. This requires linking to program DFHPIVAL. The link to the program failed. Validation cannot occur without this program.

System action: Validation is not attempted. Processing continues. The application program is invoked as though validation had not been requested.

User response: Ensure that the CSD in use has the definition for DFHPIVAL included.

Module: DFHPITL, DFHPIIW

XMEOUT Parameters: *date, time,applid*

Destination: CPIO

DFHPI1005 *date time applid* **Attempt to link to program** *progname* **failed. SOAP conversions cannot be performed. Module** *modname***.**

Explanation: SOAP conversion to a format suitable for a CICS application failed. The link to a vendor supplied program *progname* failed. The webservice cannot be used without this program.

System action: The attempt to use the webservice is aborted. A soap fault is returned to the client. If the failure occurs during an INVOKE WEBSERVICE API command, i.e. the issuing module for this message is DFHPIIW, appropriate EIBRESP and EIBRESP2 codes are returned to the application program.

User response: Ensure that the WEBSERVICE definition refers to the correct WSBIND file and that the vendor program *progname* required is available to CICS.

Module: DFHPITL, DFHPIIW

XMEOUT Parameters: *date, time,applid, progname, modname*

Destination: CPIO

DFHPI1006 *date time applid* **The WSBIND file used for WEBSERVICE** *WebService* **is not a type which CICS can use. Module** *modname***.**

Explanation: The product which produced the WSBIND file is not one which CICS knows how to handle. As such, it is not possible to invoke the webservice *WebService*.

System action: The attempt to use the webservice is aborted. A soap fault is returned to the client. If the failure occurs during an INVOKE WEBSERVICE API command, i.e. the issuing module for this message is DFHPIIW, appropriate EIBRESP and EIBRESP2 codes are returned to the application program.

User response: Ensure that the WEBSERVICE definition for *WebService* refers to the correct WSBIND file and that the file has been properly produced.

Module: DFHPITL, DFHPIIW

XMEOUT Parameters: *date, time,applid, WebService, modname*

Destination: CPIO

DFHPI1007 *date time applid trannum* **XML to data transformation failed because of incorrect input (**{*XML_FORMAT_ERROR* | *UNEXPECTED_CONTENT* | *HEADER_FORMAT_ERROR* | *UNDEFINED_ELEMENT* | *UNDEFINED_NAME_SPACE* | *ARRAY_OVERFLOW* | *NAME_TOO_LONG* | *PREFIX_TOO_LONG* | *NAME_SPACE_TOO_LONG* | *UNEXPECTED_XOP_INCLUDE* | *XOP_INCLUDE_ERROR* | *DUPLICATE_CHOICE* | *MISSING_XSI_TYPE* | *UNKNOWN_XSI_TYPE* | *MISSING_ATTRIBUTE* | *MIXED_CONTENT* | *MISSING_EQUALS_ATTR* | *MISSING_CLOSE_TAG_CHAR* | *MISSING_QUOTE_OR_APOSTROPHE* | *MISSING_END_QUOTE* |*DUPLICATE_ATTRIBUTE* | *MISMATCHED_TAGS* |*UNSUPPORTED_ENTITY}* *error_qualifier***) for** {*WEBSERVICE* | *XMLTRANSFORM* | *BUNDLE* | *EVENTBINDING* | *SCACOMPOSITE* | *JVMSERVER pipeline handler program* | *EPADAPTER* |*TYPE UNKNOWN}* *resource_name***.**

Explanation: CICS has failed to convert some XML data into application data. This XML may be the body of a SOAP message received from a partner process. The reason for the failure is due to a problem with the content of the XML. The XML is either not well formed, invalid with respect to the XML schema or does not conform to one of the internal constraints of the CICS XML transformation service. An *error_qualifier* may be provided to help identify the source of the problem. In some cases the *error_qualifier* will be empty.

The possible error codes and qualifiers associated with this message are

XML_FORMAT_ERROR error_type
: The XML is not well formed. See the trace for further details.

UNEXPECTED_CONTENT
: Character data has been found between two XML tags at a place where such text was not expected.

HEADER_FORMAT_ERROR
: There is a problem reading the namespace attributes from the XML namespaces container.

UNDEFINED_ELEMENT element_name
: The XML includes an unexpected XML tag.

UNDEFINED_NAME_SPACE name_space
: The XML includes an XML namespace prefix that has not been defined.

ARRAY_OVERFLOW array_name
: Too many instances of an array or list of tags has been found in the XML.

NAME_TOO_LONG
: An XML tag name longer than 255 characters has been found.

PREFIX_TOO_LONG
: An XML namespace prefix longer than 255 characters has been found.

NAME_SPACE_TOO_LONG
: An XML namespace name longer than 255 characters has been found.

UNEXPECTED_XOP_INCLUDE
: An xop:Include element should only appear in place of the data for a base64binary field, but was found in some other context.

XOP_INCLUDE_ERROR
: An xop:include element was found in a valid context, but the referenced attachment could not be found.

DUPLICATE_CHOICE element_name
: A second entry has been found from a mutually exclusive group of options. Only the first option that was found was expected.

MISSING_XSI_TYPE element_name
: An xsi:type attribute was expected for the XML tag but could not be found.

UNKNOWN_XSI_TYPE type_name
: An xsi:type attribute was found for a data type that is not supported. Data types are supported only if they were present in the original XML schema.

MISSING_ATTRIBUTE attribute_name element_name namespace
: A required attribute with the specified name and namespace was expected but is missing from the specified XML tag. No default value is known for the attribute. If the namespace is not specified, the XML attribute must not be qualified with a namespace.

MIXED_CONTENT element_name
: The identified element included character data that is not marked up with XML tags. These characters are only tolerated if the XML schema specified mixed="true" for the element.

MISSING_EQUALS_ATTR attribute_name element_name
: The identified element has an attribute that is missing an equals character prior to its value; for example, <tag attribute"value"> instead of <tag attribute="value">.

MISSING_CLOSE_TAG_CHAR element_name
: The identified element is missing a '>' character. The tag might be a self closing tag that would normally take the following form: <tag/> .

MISSING_QUOTE_OR_APOSTROPHE attribute_name element_name
: The identified element has an an attribute that is missing a delimiter for its value; for

example, <tag attribute=value"> instead of <tag attribute="value">.

MISSING_END_QUOTE attribute_name element_name
The identified element has an an attribute that is missing its terminating value delimiter; for example, <tag attribute="value> instead of <tag attribute="value">.

DUPLICATE_ATTRIBUTE attribute_name element_name
The identified element has an two attributes with the same name.

MISMATCHED_TAGS start_tag_name end_tag_name
A pair of opening and closing XML tags do not match; for example, <open></close> rather than <open></open>.

UNSUPPORTED_ENTITY entity_name
An unsupported entity has been found in the XML.

System action: The XML conversion process halts.

If CICS is acting as a Web service provider, a SOAP Fault message is returned to the requester. If CICS is acting as a Web service requester, a response code of INVREQ is returned to the calling application program with a RESP2 code of 14. If CICS is processing a TRANSFORM command, an INVREQ is returned with a RESP2 code of 3.

An exception entry is written to the trace table.

User response: Examine the exception trace entry for further information. Consider using the WEBSERVICE or XMLTRANSFORM validation option to test that the XML is valid for the schema.

XML is case sensitive. Ensure that the XML element, attribute, and namespace names used within the XML are correct with respect to the schemas that describe the XML.

Correct or change the partner process to ensure that the XML sent to CICS is appropriate to be consumed by CICS.

If a SOAP message is changed by a handler program as part of the CICS PIPELINE processing then ensure that the handler has not introduced this problem.

Module: DFHPICC

XMEOUT Parameters: *date, time,applid, trannum, {1=XML_FORMAT_ERROR, 2=UNEXPECTED_CONTENT, 3=HEADER_FORMAT_ERROR, 4=UNDEFINED_ELEMENT, 5=UNDEFINED_NAME_SPACE, 6=ARRAY_OVERFLOW, 7=NAME_TOO_LONG, 8=PREFIX_TOO_LONG, 9=NAME_SPACE_TOO_LONG, 10=UNEXPECTED_XOP_INCLUDE,11=XOP_INCLUDE_ERROR, 12=DUPLICATE_CHOICE,13=MISSING_XSI_TYPE, 14=UNKNOWN_XSI_TYPE,15=MISSING_ATTRIBUTE, 16=MIXED_CONTENT,17=MISSING_EQUALS_ATTR, 18=MISSING_CLOSE_TAG_CHAR, 19=MISSING_QUOTE_OR_APOSTROPHE, 20=MISSING_END_QUOTE, 21=DUPLICATE_ATTRIBUTE,22=MISMATCHED_TAGS, 23=UNSUPPORTED_ENTITY}, error_qualifier, {1=WEBSERVICE,2=XMLTRANSFORM, 3=BUNDLE, 4=EVENTBINDING, 5=SCACOMPOSITE, 6=JVMSERVER pipeline handler program, 7=EPADAPTER,8=TYPE UNKNOWN}, resource_name*

Destination: CPIO

DFHPI1008 *date time applid trannum* **XML generation failed because of incorrect input (***{ARRAY_CONTAINER_TOO_SMALL | DATA_STRUCTURE_TOO_SMALL | ARRAY_TOO_LARGE |ARRAY_TOO_SMALL | CONTAINER_NOT_FOUND |CONTAINER_NOT_BIT | CONTAINER_NOT_CHAR |BAD_CHOICE_ENUM | LENGTH_TOO_LONG} error_qualifier***) for** *{WEBSERVICE | XMLTRANSFORM | BUNDLE | EVENTBINDING |SCACOMPOSITE | JVMSERVER pipeline handler program | EPADAPTER |TYPE UNKNOWN} resource_name***.**

Explanation: CICS has failed to generate XML due to a problem with the data received from the CICS application. An *error_qualifier* may be provided to help identify the source of the problem. In some cases the *error_qualifier* will be empty.

The possible error codes and qualifiers associated with this message are

ARRAY_CONTAINER_TOO_SMALL array_name
A CICS container does not hold sufficient data given the number of instances of the data expected and the length of one instance of the data.

DATA_STRUCTURE_TOO_SMALL expected_length
The container passed to CICS does not hold the expected quantity of data. There are several possible causes for this problem including

- The binding file and the application are out of step. For example, CICS may be expecting data consistent with version 1 of an application, but the application has been updated to version 2. In which case, the binding file needs updating and redeploying.
- A provider mode Web service may have failed to populate the data container prior to exiting. CICS may be receiving the same data as output that it originally passed to the Web service as input.
- The application may be deliberately truncating the data it passes to CICS.

ARRAY_TOO_LARGE array_name
Too many instances of a structure have been supplied in a container given the maximum value specified in the XML schema.
ARRAY_TOO_SMALL array_name
Too few instances of a structure have been supplied in a container given the minimum value specified in the XML schema.
CONTAINER_NOT_FOUND container_name
A container named in the input structure cannot be found.
CONTAINER_NOT_BIT container_name
A container named in the input structure exists but is of the wrong type. The container must be created in BIT mode rather than CHAR mode.
CONTAINER_NOT_CHAR container_name
A container named in the input structure exists but is of the wrong type. The container must be created in CHAR mode rather than BIT mode.
BAD_CHOICE_ENUM enum_name
An enumerated value in the input structure has been set to an invalid value.
LENGTH_TOO_LONG field_name
The length value specified for this field is longer than the maximum length permitted for the field. For example, the maximum length of the field may be 255 characters, but the length may have been initialized to x'4040' which indicates 16448 characters of data.

System action: The XML conversion process halts.

If CICS is acting as a Web service provider, a SOAP Fault message is returned to the requester. If CICS is acting as a Web service requester, a response code of INVREQ is returned to the calling application program with, in most cases, a RESP2 code of 14. If CICS is processing a TRANSFORM command, an INVREQ is returned with a RESP2 code of 5.

An exception entry is written to the trace table.

User response: Examine the exception trace entry for further information.

Correct the CICS application to ensure that the data presented to CICS is appropriate to be converted into XML.

Module: DFHPIII

XMEOUT Parameters: *date, time,applid, trannum, {1=ARRAY_CONTAINER_TOO_SMALL, 2=DATA_STRUCTURE_TOO_SMALL, 3=ARRAY_TOO_LARGE, 4=ARRAY_TOO_SMALL, 5=CONTAINER_NOT_FOUND, 6=CONTAINER_NOT_BIT, 7=CONTAINER_NOT_CHAR, 8=BAD_CHOICE_ENUM, 9=LENGTH_TOO_LONG}, error_qualifier, {1=WEBSERVICE, 2=XMLTRANSFORM, 3=BUNDLE,4=EVENTBINDING, 5=SCACOMPOSITE, 6=JVMSERVER pipeline handler program, 7=EPADAPTER,8=TYPE UNKNOWN}, resource_name*

Destination: CPIO

DFHPI1009 *date time applid trannum* **XML to data transformation failed. A conversion error (***{UNKNOWN_CONVERSION | INPUT_TOO_LONG | OUTPUT_OVERFLOW | NEGATIVE_UNSIGNED | NO_FRACTION_DIGITS | FRACTION_TOO_LONG | INVALID_CHARACTER | ODD_HEX_DIGITS | INVALID_BASE64 | NOT_PURE_DBCS | INVALID_FIELD_SIZE | EXPONENT_OVERFLOW | EXPONENT_UNDERFLOW | ABSTIME_INVALID}***) occurred when converting field** *fieldname* **for** *{WEBSERVICE |XMLTRANSFORM | BUNDLE | EVENTBINDING | SCACOMPOSITE | JVMSERVER pipeline handler program | EPADAPTER | TYPE UNKNOWN} resource_name***.**

Explanation: CICS has failed to convert some XML data into application data. This XML may be the body of a SOAP message received from a partner process. The reason for the failure is due to a problem converting a value within the XML.

The possible error codes associated with this message are
INPUT_TOO_LONG
The value of an XML tag that was declared as numeric contains more than 31 digits.
OUTPUT_OVERFLOW
An XML tag contains a value that is too long to fit in the associated field of the commarea, or an XML tag contains a numeric value which is outside the permitted range for the associated field in the commarea.
NEGATIVE_UNSIGNED
A negative number has been found in an XML tag that was declared as unsigned.
NO_FRACTION_DIGITS
An XML tag contains a number which contains a decimal point but is not followed by any valid fractional digits.
FRACTION_TOO_LONG
An XML tag contains a number with more non-zero fractional digits than the XML schema allows.
INVALID_CHARACTER
An XML tag contains a character that is inconsistent with the declared type of that tag. For example, a tag declared as hexBinary contains a value that is not in the range 0-9 + a-f + A-F.

ODD_HEX_DIGITS
An XML tag that was declared as hexBinary contains an odd number of hexadecimal characters.
INVALID_BASE64
An XML tag that was declared as base64Binary contains a value that is not consistent with the base64 encoding.
NOT_PURE_DBCS
An XML tag that maps to a pure DBCS language structure field contains a value that cannot be represented in pure DBCS.
INVALID_FIELD_SIZE
A floating point type with an unsupported precision level has been discovered.
EXPONENT_OVERFLOW
An overflow condition has been encountered whilst transforming a floating point value.
EXPONENT_UNDERFLOW
An underflow condition has been encountered whilst transforming a floating point value.
ABSTIME_INVALID
An attempt to convert an xsd:dateTime into a CICS ABSTIME value failed. This may be because the value in the XML does not conform to RFC3339, or the value represented may not be representable as a CICS ABSTIME value.
UNKNOWN_CONVERSION
An unrecognized conversion type has been requested.

System action: The XML conversion process halts.

If CICS is acting as a Web service provider, a SOAP Fault message is returned to the requester. If CICS is acting as a Web service requester, a response code of INVREQ is returned to the calling application program with a RESP2 code of 14. If CICS is processing a TRANSFORM command, an INVREQ is returned with a RESP2 code of 4.

An exception entry is written to the trace table.

User response: Examine the exception trace entry for further information. Consider using the WEBSERVICE or XMLTRANSFORM validation option to test that the XML is valid for the schema.

Correct or change the partner process to ensure that the XML sent to CICS is appropriate to be consumed by CICS.

If a SOAP message is changed by a handler program as part of the CICS PIPELINE processing then ensure that the handler has not introduced this problem.

Module: DFHPICC

XMEOUT Parameters: *date*, *time*,*applid*, *trannum*, *{99=UNKNOWN_CONVERSION, 1=INPUT_TOO_LONG, 2=OUTPUT_OVERFLOW, 3=NEGATIVE_UNSIGNED, 4=NO_FRACTION_DIGITS, 5=FRACTION_TOO_LONG, 6=INVALID_CHARACTER, 7=ODD_HEX_DIGITS, 11=INVALID_BASE64, 12=NOT_PURE_DBCS, 14=INVALID_FIELD_SIZE, 15=EXPONENT_OVERFLOW, 16=EXPONENT_UNDERFLOW, 17=ABSTIME_INVALID}*, *fieldname*, *{1=WEBSERVICE, 2=XMLTRANSFORM, 3=BUNDLE, 4=EVENTBINDING, 5=SCACOMPOSITE, 6=JVMSERVER pipeline handler program, 7=EPADAPTER, 8=TYPE UNKNOWN}*, *resource_name*

Destination: CPIO

DFHPI1010 *date time applid trannum* **XML generation failed. A conversion error (***{UNKNOWN_CONVERSION | NEGATIVE_UNSIGNED | INVALID_CHARACTER | INVALID_PACKED_DEC | INVALID_ZONED_DEC | INCOMPLETE_DBCS | ODD_DBCS_BYTES | INVALID_FIELD_SIZE | EXPONENT_OVERFLOW | EXPONENT_UNDERFLOW | ABSTIME_INVALID}***) occurred when converting field** *fieldname* **for** *{WEBSERVICE | XMLTRANSFORM | BUNDLE | EVENTBINDING | SCACOMPOSITE | JVMSERVER pipeline handler program | EPADAPTER | TYPE UNKNOWN} resource_name***.**

Explanation: CICS has failed to generate XML using application supplied data. The reason for the failure is due to a problem converting a value from the application data.

The possible error codes associated with this message are
NEGATIVE_UNSIGNED
A negative number has been found in the application data that was declared as unsigned.
INVALID_CHARACTER
An XML tag contains a character that is inconsistent with the declared type of that tag. For example, a tag declared as hexBinary contains a value that is not in the range 0-9 + a-f + A-F.
INVALID_PACKED_DEC
A packed decimal field in the application data contains an illegal value that cannot be converted to XML.
INVALID_ZONED_DEC
A zoned decimal field in the application data contains an illegal value that cannot be converted to XML.
INCOMPLETE_DBCS
A DBCS sequence in the application data is missing a shift in (SI) character.
ODD_DBCS_BYTES
A DBCS sequence in the application data is an odd number of bytes in length.

INVALID_FIELD_SIZE
A floating point type with an unsupported precision level has been discovered.
EXPONENT_OVERFLOW
An overflow condition has been encountered when transforming a floating point value.
EXPONENT_UNDERFLOW
An underflow condition has been encountered when transforming a floating point value.
ABSTIME_INVALID
A problem was encountered when transforming an ABSTIME value into an RFC3339 value.
UNKNOWN_CONVERSION
An unrecognized conversion type has been requested.

System action: The XML conversion process halts.

If CICS is acting as a Web service provider, a SOAP Fault message is returned to the requester. If CICS is acting as a Web service requester, a response code of INVREQ is returned to the calling application program with a RESP2 code of 14. If CICS is processing a TRANSFORM command then an INVREQ is returned with a RESP2 code of 6.

An exception entry is written to the trace table.

User response: Examine the exception trace entry for further information.

Correct the CICS application to ensure that the data presented to CICS is appropriate to be converted into XML.

Module: DFHPIII

XMEOUT Parameters: *date, time,applid, trannum, {99=UNKNOWN_CONVERSION, 3=NEGATIVE_UNSIGNED, 6=INVALID_CHARACTER, 8=INVALID_PACKED_DEC, 9=INVALID_ZONED_DEC, 10=INCOMPLETE_DBCS, 13=ODD_DBCS_BYTES, 14=INVALID_FIELD_SIZE, 15=EXPONENT_OVERFLOW, 16=EXPONENT_UNDERFLOW, 17=ABSTIME_INVALID}, fieldname, {1=WEBSERVICE, 2=XMLTRANSFORM, 3=BUNDLE, 4=EVENTBINDING, 5=SCACOMPOSITE, 6=JVMSERVER pipeline handler program, 7=EPADAPTER,8=TYPE UNKNOWN}, resource_name*

Destination: CPIO

DFHPI1020 E *date time applid tranid* **The CICS handling program for the SCACOMPOSITE type failed to create resource** *resource_name* **in the BUNDLE resource** *bundle_name* **because CICS failed to parse the SCDL resource definition** *scdl_path_name* **specified in bundle root directory** *bundle_root***.** *{The SCDL is not valid. | Failed to convert the SCDL.}*

Explanation: The CICS handling program, DFHPICA, for the 'http://www.ibm.com/xmlns/prod/cics/bundle/SCACOMPOSITE' type failed to create resource *resource_name* in the BUNDLE resource *bundle_name*, because CICS failed to parse the SCDL resource definition *scdl_path_name* in bundle root directory *bundle_root*.

System action: The creation process ends and the resource is set to a disabled state. The associated bundle is set to a disabled state.

User response: Ensure that the SCDL is valid for CICS to parse.

XMEOUT Parameters: *date, time, applid, tranid, resource_name, bundle_name, scdl_path_name, bundle_root, {1=The SCDL is not valid., 2=Failed to convert the SCDL.}*

DFHPI1100E *date time applid userid* **PIPELINE** *pipeline* **encountered an error while processing an inbound MIME mes sage. The problem with the MIME message is:** *{it contained an invalid character | it had an invalid header | it had an invalid MIME header | it had a boundary error | it did not contain a root part | it used an unsupported encoding | it caused an unexpected response}***.**

Explanation: During HTTP processing of an inbound MIME request, CICS detected an error in the format or content of the MIME message. Possible reasons for this could be

- It contained an invalid character
- It had an invalid header
- It had an invalid MIME header
- It had a boundary error
- It did not contain a root part
- It used an unsupported encoding
- It caused an unexpected response

The specific cause of the error is indicated in the message.

System action: The PIPELINE returns in error. For a provider PIPELINE the HTTP connection is closed. An exception trace point is issued with the details of the error.

User response: Check the trace for details of the MIME error. This error will need to be corrected in the MIME generation of the sender.

Module: DFHPITH

XMEOUT Parameters: *date, time,applid, userid, pipeline, {1=it contained an invalid character, 2=it had an invalid header, 3=it had an invalid MIME header, 4=it had a boundary error, 5=it did not contain a root part, 6=it used an unsupported encoding, 7=it caused an unexpected response}*

Destination: CPIO

DFHPI1101E *date time applid userid* **PIPELINE** *pipeline* **encountered an error while processing an inbound MIME mes sage in compatibility mode. The problem with the MIME message was it contained:** *{a body that could not be parsed | an include for which there was no attachment}***.**

Explanation: During HTTP processing of an inbound MIME request, in compatibility mode, CICS detected an error in the content of the MIME message. Possible causes for this error include the MIME message contains a body that could not be parsed or an include for which there was no attachment. The message issued will indicate the cause of the error.

System action: The pipeline returns in error. For a provider pipeline the HTTP connection is closed. An exception trace point will have been issued with the details of the error.

User response: Trace can be checked to obtain the details of the MIME error. This error will need to be corrected in the MIME generation of the sender.

Module: DFHPITH

XMEOUT Parameters: *date, time,applid, userid, pipeline, {1=a body that could not be parsed, 2=an include for which there was no attachment}*

Destination: CPIO

DFHPI1102E *date time applid userid* **PIPELINE** *pipeline* **encountered an error while processing an outbound MIME me ssage in compatibility mode. Generation of the MIME message failed because:** *{it contained a body that could not be parsed | a container had an invalid ccsid | a container had the wrong type}***.**

Explanation: During HTTP processing of an outbound MIME request, in compatibility mode, CICS detected an error in the content of the MIME message or pipeline channel. Possible reasons for this failure include the message contained a body that could not be parsed, the channel had a MIME container with an invalid ccsid or the channel had a container with the wrong type. The cause of the error will be indicated in the issued message.

System action: The pipeline returns in error. For a provider pipeline the HTTP connection is closed. An exception trace point will have been issued with the details of the error.

User response: Trace can be checked to obtain the details of the MIME error. This error will need to be corrected in the MIME generation of the sending party.

Module: DFHPITH

XMEOUT Parameters: *date, time,applid, userid, pipeline, {1=it contained a body that could not be parsed, 2=a container had an invalid ccsid, 3=a container had the wrong type}*

Destination: CPIO

DFHPI1103E *date time applid userid* **PIPELINE** *pipeline* **encountered an error while processing an outbound message in MIME compatibility mode. The problem with the MIME message was** *{it contained a body that could not be parsed |it had an include for which there was no attachment |it caused an unexpected exception}***.**

Explanation: During Websphere MQ processing of an outbound MIME request, in compatibility mode, CICS detected an error in the content of the MIME message. This could be because it contained a body that could not be parsed or it had an include for which there was no attachment. Other internal MIME syntax and processing problems could also be the cause. The message identifies which of these caused it to be issued.

System action: The PIPELINE returns in error. An exception trace point will have been issued with the details of the error.

User response: Trace can be checked to obtain the details of the MIME error. This error will need to be corrected in the MIME generation of the sender.

Module: DFHPITQ

XMEOUT Parameters: *date, time,applid, userid, pipeline, {1=it contained a body that could not be parsed, 2=it had an include for which there was no attachment, 3=it caused an unexpected exception}*

Destination: CPIO

DFHPI2000 E *date time applid tranid* **The installation of SCACOMPOSITE** *resource_name* **in the BUNDLE resource** *bundle_name* **did not complete successfully.** *{A WEBSERVICE wsbind file was not found. | A WEBSERVICE name was a duplicate. | A URIMAP has an invalid path. | A URIMAP has a duplicate path. | A binding combination was invalid. | A binding did not provide required values. | A Service required for wiring was not found. | A Reference required for wiring was not found. | A wire target was already wired. | A service or reference name was a duplicate.}*

Explanation: The CICS handling program, DFHPICA, for the 'http://www.ibm.com/xmlns/prod/cics/bundle/SCACOMPOSITE' type failed to create resource *resource_name* in the BUNDLE resource *bundle_name* due to an error in the contents of SCDL.

System action: The resource is set to a disabled state. The associated bundle is set to a disabled state.

User response: Correct the SCDL or the indicated issue resource issue. Discard the BUNDLE and reinstall.

XMEOUT Parameters: *date, time, applid, tranid, resource_name, bundle_name, {1=A WEBSERVICE wsbind file was not found., 2=A WEBSERVICE name was a duplicate., 3=A URIMAP has an invalid path., 4=A URIMAP has a duplicate path., 5=A binding combination was invalid., 6=A binding did not provide required values., 7=A Service required for wiring was not found., 8=A Reference required for wiring was not found., 9=A wire target was already wired., 10=A service or reference name was a duplicate.}*

DFHPI2001 E *date time applid tranid* **The installation of SCACOMPOSITE** *resource_name* **in the BUNDLE resource** *bundle_name* **did not complete successfully. The bindfile could not be read. Bindfile:** *bindfile_name* **,Binding:***binding_name* **.**

Explanation: The CICS handling program, DFHPICA, for the 'http://www.ibm.com/xmlns/prod/cics/bundle/SCACOMPOSITE' type failed to create resource *resource_name* in the BUNDLE resource *bundle_name* due to an error in the contents of SCDL. The binding *binding_name* had a bindfile attribute which specified a file path *bindfile_name* which could not be read.

System action: The resource is set to a disabled state. The associated bundle is set to a disabled state.

User response: Correct the SCDL or the indicated resource issue. Discard the BUNDLE and reinstall.

XMEOUT Parameters: *date, time, applid, tranid, resource_name, bundle_name, bindfile_name, binding_name*

DFHPI2002 E *date time applid tranid* **The installation of SCACOMPOSITE** *resource_name* **in the BUNDLE resource** *bundle_name* **did not complete successfully. A duplicate WEBSERVICE name was used in a binding. WEBSERVICE:** *webservice_name* **,Binding:***binding_name* **.**

Explanation: The CICS handling program, DFHPICA, for the 'http://www.ibm.com/xmlns/prod/cics/bundle/SCACOMPOSITE' type failed to create resource *resource_name* in the BUNDLE resource *bundle_name* due to an error in the contents of SCDL. The binding *binding_name* had a wsRes attribute which specified a *webservice_name* which was a duplicate of an existing WEBSERVICE.

System action: The resource is set to a disabled state. The associated bundle is set to a disabled state.

User response: Correct the SCDL or the indicated resource issue. Discard the BUNDLE and reinstall.

XMEOUT Parameters: *date, time, applid, tranid, resource_name, bundle_name, webservice_name, binding_name*

DFHPI2003 E *date time applid tranid* **The installation of SCACOMPOSITE** *resource_name* **in the BUNDLE resource** *bundle_name* **did not complete successfully. A duplicate URIMAP path was used in a binding. Path:** *path_name* **,Binding:***binding_name* **.**

Explanation: The CICS handling program, DFHPICA, for the 'http://www.ibm.com/xmlns/prod/cics/bundle/SCACOMPOSITE' type failed to create resource *resource_name* in the BUNDLE resource *bundle_name* due to an error in the contents of SCDL. The binding *binding_name* had a uri attribute which specified a value *path_name* which was a duplicate of an existing URIMAP path.

System action: The resource is set to a disabled state. The associated bundle is set to a disabled state.

User response: Correct the SCDL or the indicated resource issue. Discard the BUNDLE and reinstall.

XMEOUT Parameters: *date, time, applid, tranid, resource_name, bundle_name, path_name, binding_name*

DFHPI2004 E *date time applid tranid* **The installation of SCACOMPOSITE** *resource_name* **in the BUNDLE resource** *bundle_name* **did not complete successfully. A invalid URIMAP path was used in a binding. Path:** *path_name* **,Binding:***binding_name* **.**

Explanation: The CICS handling program, DFHPICA, for the 'http://www.ibm.com/xmlns/prod/cics/bundle/SCACOMPOSITE' type failed to create resource *resource_name* in the BUNDLE resource *bundle_name* due to an error in the contents of SCDL. The binding *binding_name* had a uri attribute which specified a value *path_name* which was invalid.

System action: The resource is set to a disabled state. The associated bundle is set to a disabled state.

User response: Correct the SCDL or the indicated resource issue. Discard the BUNDLE and reinstall.

XMEOUT Parameters: *date, time, applid, tranid, resource_name, bundle_name, path_name, binding_name*

DFHPI2005 E *date time applid tranid* **The installation of SCACOMPOSITE** *resource_name* **in the BUNDLE resource** *bundle_name* **did not complete successfully. A binding attempted to wire to a target with an incompatabile binding type. Target:** *target* **,Binding:***binding_name* **.**

Explanation: The CICS handling program, DFHPICA, for the 'http://www.ibm.com/xmlns/prod/cics/bundle/SCACOMPOSITE' type failed to create resource *resource_name* in the BUNDLE resource *bundle_name* due

to an error in the contents of SCDL. The binding *binding_name* tried to wire to a service or reference which had an incompatible binding type. The most common cause of this is trying to mix a binding.ws with binding.cics.

System action: The resource is set to a disabled state. The associated bundle is set to a disabled state.

User response: Correct the SCDL or the indicated resource issue. Discard the BUNDLE and reinstall.

XMEOUT Parameters: *date, time, applid, tranid, resource_name, bundle_name, target, binding_name*

DFHPI2006 E *date time applid tranid* **The installation of SCACOMPOSITE** *resource_name* **in the BUNDLE resource** *bundle_name* **did not complete successfully. A wired binding did not provide a required value. Value Type:***{pipeline | uri | bindfile}* **,Binding:** *binding_name* **.**

Explanation: The CICS handling program, DFHPICA, for the 'http://www.ibm.com/xmlns/prod/cics/bundle/SCACOMPOSITE' type failed to create resource *resource_name* in the BUNDLE resource *bundle_name* due to an error in the contents of SCDL. The binding *binding_name* tried to wire to a service or reference which has not provided a value for a required attribute. A value must be provided for this attribute on one of the two wired bindings. The missing attribute was of type *value_type* .

System action: The resource is set to a disabled state. The associated bundle is set to a disabled state.

User response: Correct the SCDL or the indicated resource issue. Discard the BUNDLE and reinstall.

XMEOUT Parameters: *date, time, applid, tranid, resource_name, bundle_name, {1=pipeline, 2=uri, 3=bindfile}, binding_name*

DFHPI2007 E *date time applid tranid* **The installation of SCACOMPOSITE** *resource_name* **in the BUNDLE resource** *bundle_name* **did not complete successfully. A wired binding targeted a service which could not be found. Target:** *target_name* **,Binding** *binding_name* **.**

Explanation: The CICS handling program, DFHPICA, for the 'http://www.ibm.com/xmlns/prod/cics/bundle/SCACOMPOSITE' type failed to create resource *resource_name* in the BUNDLE resource *bundle_name* due to an error in the contents of SCDL. The binding *binding_name* tried to wire to a service that could not be found.

System action: The resource is set to a disabled state. The associated bundle is set to a disabled state.

User response: Correct the SCDL or the indicated resource issue. Discard the BUNDLE and reinstall.

XMEOUT Parameters: *date, time, applid, tranid, resource_name, bundle_name, target_name, binding_name*

DFHPI2008 E *date time applid tranid* **The installation of SCACOMPOSITE** *resource_name* **in the BUNDLE resource** *bundle_name* **did not complete successfully. A wired binding targeted a reference which could not be found. Target:** *target_name* **,Binding:** *binding_name* **.**

Explanation: The CICS handling program, DFHPICA, for the 'http://www.ibm.com/xmlns/prod/cics/bundle/SCACOMPOSITE' type failed to create resource *resource_name* in the BUNDLE resource *bundle_name* due to an error in the contents of SCDL. The binding *binding_name* tried to wire to a reference that could not be found.

System action: The resource is set to a disabled state. The associated bundle is set to a disabled state.

User response: Correct the SCDL or the indicated resource issue. Discard the BUNDLE and reinstall.

XMEOUT Parameters: *date, time, applid, tranid, resource_name, bundle_name, target_name, binding_name*

DFHPI2009 E *date time applid tranid* **The installation of SCACOMPOSITE** *resource_name* **in the BUNDLE resource** *bundle_name* **did not complete successfully. A wired binding targeted a service or reference which had alreay been wired. Target:** *target_name* **,Binding:** *binding_name* **.**

Explanation: The CICS handling program, DFHPICA, for the 'http://www.ibm.com/xmlns/prod/cics/bundle/SCACOMPOSITE' type failed to create resource *resource_name* in the BUNDLE resource *bundle_name* due to an error in the contents of SCDL. The binding *binding_name* tried to wire to a service or reference that had already been wired. Each service or reference can only be the target of one wire.

System action: The resource is set to a disabled state. The associated bundle is set to a disabled state.

User response: Correct the SCDL or the indicated resource issue. Discard the BUNDLE and reinstall.

XMEOUT Parameters: *date, time, applid, tranid, resource_name, bundle_name, target_name, binding_name*

DFHPI2011 E *date time applid tranid* **The installation of SCACOMPOSITE** *resource_name* **in the BUNDLE resource** *bundle_name* **did not complete successfully. No services or references could be found in the composite implementation** *impl_comp***.**

Explanation: The CICS handling program, DFHPICA, for the 'http://www.ibm.com/xmlns/prod/cics/bundle/SCACOMPOSITE' type failed to create resource

resource_name in the BUNDLE resource *bundle_name* due to an error in implementation composite *impl_comp*. It must contain at least one service or at least one reference.

System action: The resource is set to a disabled state. The associated BUNDLE is set to a disabled state.

User response: Define at least one service or at least one reference in the implementation composite. Discard the BUNDLE and reinstall it.

XMEOUT Parameters: *date, time, applid, tranid, resource_name, bundle_name, impl_comp*

DFHPI2012 E *date time applid tranid* **The installation of SCACOMPOSITE** *resource_name* **in the BUNDLE resource** *bundle_name* **did not complete successfully. The prerequisite composite implementation** *impl_comp* **could not be found.**

Explanation: The CICS handling program, DFHPICA, for the 'http://www.ibm.com/xmlns/prod/cics/bundle/SCACOMPOSITE' type failed to create resource *resource_name* in the BUNDLE resource *bundle_name* because a prerequisite composite implementation *impl_comp* could not be found.

System action: The resource is set to a disabled state. The associated BUNDLE is set to a disabled state.

User response: Ensure that the composite implementation is available. Discard the BUNDLE and reinstall.

XMEOUT Parameters: *date, time, applid, tranid, resource_name, bundle_name, impl_comp*

DFHPI2015 E *date time applid tranid* **A attempt to directly invoke a service** *service_name* **failed.** *{The service is internal. | The service cannot be invoked directly. | The composite that defines the service is disabled. | The service uses the web services binding.}*

Explanation: An attempt to use INVOKE SERVICE to target an SCA deployed service *service_name* could not establish a binding. Although a matching service name was found that service was not suitable for direction invocation. This could be because The target service is internal to a composite. The target service uses a bind file for mapping. The target service is in a disabled composite. The target service uses a Web Services binding and must be called as a Web Service.

System action: The INVOKE SERVICE returns NOTFOUND.

User response: There are a number of possible solutions. Check the SCDL and correct and issues. Change the application to target a service that can be called in this way. Change the application to use a request type (Web Services) that can target the service.

XMEOUT Parameters: *date, time, applid, tranid, service_name, {1=The service is internal., 2=The service cannot be invoked directly., 3=The composite that defines the service is disabled., 4=The service uses the web services binding.}*

DFHPI2016 E *date time applid tranid* **The installation of SCACOMPOSITE** *resource_name* **in the BUNDLE resource** *bundle_name* **did not complete successfully. A Web service binding was used to wire an internal reference to a service. Binding:***binding_name***.**

Explanation: The CICS handling program, DFHPICA, for the 'http://www.ibm.com/xmlns/prod/cics/bundle/SCACOMPOSITE' type failed to create resource *resource_name* in the BUNDLE resource *bundle_name* due to an error in the contents of SCDL. The Web service binding *binding_name* was used to wire an internal reference to a service. Only a SCA or CICS binding can be used for internal wiring.

System action: The resource is set to a disabled state. The associated BUNDLE is set to a disabled state.

User response: Correct the SCDL or the indicated resource problem. Discard the BUNDLE and reinstall.

XMEOUT Parameters: *date, time, applid, tranid, resource_name, bundle_name, binding_name*

DFHPI2018 E *date time applid tranid* **The installation of SCACOMPOSITE** *resource_name* **in the BUNDLE resource** *bundle_name* **did not complete successfully. The resource name must be the same as the composite name. Composite name:***composite_name***.**

Explanation: The CICS handling program, DFHPICA, for the 'http://www.ibm.com/xmlns/prod/cics/bundle/SCACOMPOSITE' type failed to create resource *resource_name* in the BUNDLE resource *bundle_name* due to an error in the contents of the manifest. The resource name must be the same as the composite name *composite_name*.

System action: The resource is set to a disabled state. The associated BUNDLE is set to a disabled state.

User response: Correct the resource name in the manifest. Discard the BUNDLE and reinstall it.

XMEOUT Parameters: *date, time, applid, tranid, resource_name, bundle_name, composite_name*

DFHPI2019 E *date time applid tranid* **The installation of SCACOMPOSITE** *resource_name* **in the BUNDLE resource** *bundle_name* **did not complete successfully. The SCDL encoding is invalid.**

Explanation: The CICS handling program, DFHPICA,

for the 'http://www.ibm.com/xmlns/prod/cics/bundle/SCACOMPOSITE' type failed to create resource *resource_name* in the BUNDLE resource *bundle_name* due to an error in the encoding of SCDL. The SCDL must be saved in binary.

System action: The resource is set to a disabled state. The associated BUNDLE is set to a disabled state.

User response: Correct the SCDL encoding. Discard the BUNDLE and reinstall it.

XMEOUT Parameters: *date, time, applid, tranid, resource_name, bundle_name*

DFHPI2020 E *date time applid tranid* **The installation of SCACOMPOSITE** *resource_name* **in the BUNDLE resource** *bundle_name* **did not complete successfully. The SCDL is invalid.**

Explanation: The CICS handling program, DFHPICA, for the 'http://www.ibm.com/xmlns/prod/cics/bundle/SCACOMPOSITE' type failed to create resource *resource_name* in the BUNDLE resource *bundle_name* due to an error in the contents of SCDL.

System action: The resource is set to a disabled state. The associated BUNDLE is set to a disabled state.

User response: Ensure the SCDL conforms to the CICS supported SCA schema. Discard the BUNDLE and reinstall it.

XMEOUT Parameters: *date, time, applid, tranid, resource_name, bundle_name*

DFHPI2021 W *date time applid tranid* **The installation of SCACOMPOSITE** *resource_name* **in the BUNDLE resource** *bundle_name* **might not complete successfully.** *{A composite name was not provided. | An internal reference name was not provided. | An internal reference target was not provided. | An internal service name was not provided. | An external reference name was was not provided. | An external reference promote was not provided. | An external reference target was not provided. | An external service name was not provided. | An external service promote was not provided.}*

Explanation: The CICS handling program, DFHPICA, for the 'http://www.ibm.com/xmlns/prod/cics/bundle/SCACOMPOSITE' type might fail to create resource *resource_name* in the BUNDLE resource *bundle_name* due to one or more attribute values not being provided in the contents of SCDL.

System action: This warning message is issued. The resource might be set to a disabled state. The associated BUNDLE might be set to a disabled state.

User response: Ensure that the attribute values are correctly specified in the SCDL. Ensure that the named resource is available and is enabled.

XMEOUT Parameters: *date, time, applid, tranid, resource_name, bundle_name, {1=A composite name was not provided., 2=An internal reference name was not provided., 3=An internal reference target was not provided., 4=An internal service name was not provided., 5=An external reference name was was not provided., 6=An external reference promote was not provided., 7=An external reference target was not provided., 8=An external service name was not provided., 9=An external service promote was not provided.}*

DFHPI2022 W *date time applid tranid* **The SCACOMPOSITE** *resource_name* **in the BUNDLE resource** *bundle_name* **defined an unsupported attribute in the SCDL. Attribute:***{policySets. | requires. }{Composite | Service | Reference | Component | Implementation | Binding}:element_name***.**

Explanation: The CICS handling program, DFHPICA, for the 'http://www.ibm.com/xmlns/prod/cics/bundle/SCACOMPOSITE' type detected that an unsupported attribute was defined in the contents of SCDL.

System action: This warning message is issued. The attribute is not processed.

User response: Ensure that a supported set of attributes are used in the contents of SCDL. Unsupported attributes: policySets, requires.

XMEOUT Parameters: *date, time, applid, tranid, resource_name, bundle_name, {1=policySets., 2=requires. }, {1=Composite, 2=Service, 3=Reference, 4=Component, 5=Implementation, 6=Binding}, element_name*

DFHPI2023 E *date time applid tranid* **The installation of SCACOMPOSITE** *resource_name* **in the BUNDLE resource** *bundle_name* **did not complete successfully. The mapping modes of** *{reference | service }element_name* **and** *{reference | service }element_name* **must be identical.**

Explanation: The CICS handling program, DFHPICA, for the 'http://www.ibm.com/xmlns/prod/cics/bundle/SCACOMPOSITE' type failed to create resource *resource_name* in the BUNDLE resource *bundle_name* due to an error in the contents of SCDL.

System action: The resource is set to a disabled state. The associated BUNDLE is set to a disabled state.

User response: Ensure the mapping modes are identical when

- Wiring an internal reference to an internal service.
- Promoting an internal reference from a reference.
- Promoting an internal service from a service.

Correct the SCDL or the indicated resource problem. Discard the BUNDLE and reinstall it.

XMEOUT Parameters: *date, time, applid, tranid, resource_name, bundle_name, {1=reference, 2=service }, element_name, {1=reference, 2=service }, element_name*

DFHPI2024 *date time applid tranid* **BUNDLE resource** *bundle_name* **cannot be enabled because one or more resources in the BUNDLE were not created successfully.**

Explanation: An attempt to enable BUNDLE resource *bundle_name* has failed. This is because one or more of the resources in the BUNDLE was not created successfully. The BUNDLE resource was installed as disabled.

System action: The BUNDLE resource remains in a disabled state.

User response: Correct the SCDL or the indicated resource problem. Discard the BUNDLE and reinstall it.

XMEOUT Parameters: *date, time, applid, tranid, bundle_name*

DFHPI2025 W *date time applid tranid* **An INVOKE SERVICE call failed because it used an unwired reference. Reference:** *reference_name* **, Scope:** *scope_name* **.**

Explanation: An INVOKE SERVICE command attempted to use an SCA reference which was not wired to an external reference, either directly or through another internal reference. Unwired references cannot be used. The reference used was *reference_name scope_name* .

System action: A NOTFOUND response is returned.

User response: Ensure that the reference is wired in the deployed SCDL or that another composite is deployed that provides the wiring. Discard and reinstall the BUNDLE that contains the SCA composite.

Module: DFHPIIW

XMEOUT Parameters: *date, time, applid, tranid, reference_name, scope_name*

Destination: CPIO

DFHPI2026 E *date time applid tranid* **The installation of SCACOMPOSITE** *resource_name* **in the BUNDLE resource** *bundle_name* **did not complete successfully. The prerequisite composite implementation** *impl_comp* **does not have any components defined.**

Explanation: The CICS handling program, DFHPICA, for the 'http://www.ibm.com/xmlns/prod/cics/bundle/SCACOMPOSITE' type failed to create resource *resource_name* in the BUNDLE resource *bundle_name* because a prerequisite composite implementation *impl_comp* did not have any components defined. A composite that is used as an implementation must have at least one component.

System action: The resource is set to a disabled state. The associated BUNDLE is set to a disabled state.

User response: Ensure that the composite implementation is correct. Discard the BUNDLE and reinstall it.

Module: DFHPICA

XMEOUT Parameters: *date, time, applid, tranid, resource_name, bundle_name, impl_comp*

Destination: CPIO

DFHPI2027 E *date time applid tranid* **The installation of SCACOMPOSITE** *resource_name* **in the BUNDLE resource** *bundle_name* **did not complete successfully. The composite name is a duplicate of an existing composite.**

Explanation: The CICS handling program, DFHPICA, for the 'http://www.ibm.com/xmlns/prod/cics/bundle/SCACOMPOSITE' type failed to create resource *resource_name* in the BUNDLE resource *bundle_name* because the composite name is a duplicate of an existing composite in the same scope.

System action: The resource is set to a disabled state. The associated BUNDLE is set to a disabled state.

User response: Ensure that the composite name is unique. Discard the BUNDLE and reinstall it.

Module: DFHPICA

XMEOUT Parameters: *date, time, applid, tranid, resource_name, bundle_name*

Destination: CPIO

DFHPI9000E ResourceBundle not found issuing message: *value***.**

Explanation: The messages for the Web services assistant cannot be located.

System action: The Web services assistant continues processing but no other messages will be issued.

User response: Contact your IBM support representative for further assistance.

Module: DFHWS2LS, DFHLS2WS, DFHSC2LS, DFHLS2SC

Destination: SYSPRINT

DFHPI9001E Message not found issuing message: *value*.

Explanation: A message number *value* is missing and cannot be issued.

System action: The Web services or XML assistant continues processing.

User response: Contact your IBM support representative for further assistance.

Module: DFHWS2LS, DFHLS2WS, DFHSC2LS, DFHLS2SC

Destination: SYSPRINT

DFHPI9002E A WSDL operation name is too long to be supported by CICS *value*.

Explanation: CICS imposes a limit on the maximum length of each operation name in a WSDL document. This limit is 255 characters. Operation name *value* is too long.

System action: The Web services assistant continues processing.

User response: Edit the WSDL document and reduce the length of the operation name. Resubmit the DFHWS2LS job to re-process the WSDL.

Module: DFHWS2LS

Destination: SYSPRINT

DFHPI9003E A WSDL part name is too long to be supported by CICS: *value*.

Explanation: CICS imposes a limit on the maximum length of each part name in a WSDL document. This limit is 255 characters. Part name *value* is too long.

System action: The Web services assistant continues processing.

User response: Edit the WSDL document and reduce the length of the part name. Resubmit the DFHWS2LS job to re-process the WSDL.

Module: DFHWS2LS

Destination: SYSPRINT

DFHPI9004E The WSDL specifies a style value of document and contains a part name that refers to an XML type. Document style WSDL must only refer to XML elements.

Explanation: There is an error in the WSDL document. The WSDL binding element specifies the use of 'document' style encoding but the associated message element points to an XML type. If document style bindings are used then the message elements may only point to XML elements.

System action: The Web services assistant continues processing.

User response: Correct the WSDL document and then resubmit the DFHWS2LS job to re-process the WSDL.

Module: DFHWS2LS

Destination: SYSPRINT

DFHPI9010E Simple data type *type* is not atomic. List and union data types are not supported.

Explanation: DFHWS2LS and DFHSC2LS support simple primitive XML data types at mapping level 1.0. Type *type* is either a list or a union data type.

System action: The Web services or XML assistant continues processing.

User response: Consider specifying a MAPPING-LEVEL of at least 1.1.

Module: DFHWS2LS, DFHSC2LS

Destination: SYSPRINT

DFHPI9011E Unsupported super type *super_type* found for type *base_type*.

Explanation: XML data type *base_type* is derived from XML data type *super_type*. The super type is not supported by the assistants.

System action: The Web services or XML assistant continues processing.

User response: Consider changing the WSDL document or XML schema to avoid this problem. For example, you could

- Change the problematic XML construct for a different one that is supported. For example, the xsd:any construct is supported by both DFHWS2LS and DFHSC2LS and can be used as a replacement for most other constructs at mapping level 2.1 onwards. A change of this type can usually be made without breaking interoperability with partner processes that are implemented using the original XML schema or WSDL document.

If changing/simplifying the XML schema or WSDL is not acceptable then other options exist

- If you are using DFHWS2LS, then at runtime level 2.1 onwards you can use the XML-ONLY parameter to opt-out of the CICS supplied XML transformation service. This results in a WSBind file being generated that tells CICS that the application will work directly with the SOAP Body in the DFHWS-BODY container.
- Other products may exist that support the required XML constructs. For example, IBM's Rational Developer for System Z (RDz) product can generate WSBind files that use a different underlying transformation service and are subject to a different set of restrictions.

- If you are implementing a Web service provider application then you could consider writing your own XML capable SOAP application handler.
- If you are implementing a Web service requester application then you could consider writing an XML capable application that uses the DFHPIRT channel linkable SOAP interface.

Module: DFHWS2LS, DFHSC2LS

Destination: SYSPRINT

DFHPI9012E Schema wild cards (<any> tags) are only supported at mapping level 2.1 and later.

Explanation: A XML schema referenced within the input document contains an 'any' tag. The 'any' tag is supported, but only at mapping level 2.1 or later. A mapping level prior to 2.1 is currently in use.

System action: The Web services or XML assistant continues processing.

User response: Consider specifying the use of mapping level 2.1 or later.

At mapping level 2.1 CICS will allocate a container into which the XML data associated with the 'any' tag will be stored at runtime. If this behaviour is not acceptable then consider changing the XML schema to specify a 'choice' construct that lists all of the possible options that may be used at runtime.

Module: DFHWS2LS, DFHSC2LS

Destination: SYSPRINT

DFHPI9013E Schema model groups with maxOccurs or minOccurs not equal to 1 are not supported. Problem found for type: *value***.**

Explanation: An XML model group has been found within the XML schema referenced from the WSDL document which specifies occurrence information. The term 'model group' refers to one of the following XML tags: 'all', 'sequence' or 'choice'. DFHWS2LS supports these tags if they do not specify minOccurs or maxOccurs values. This problem has been identified within data type *value*.

At mapping level 2.1 minOccurs="0" is supported for model groups.

System action: The Web services assistant continues processing.

User response: Consider changing the WSDL document or XML schema to avoid this problem. For example, you could

- Change the problematic XML construct for a different one that is supported. For example, the xsd:any construct is supported by both DFHWS2LS and DFHSC2LS and can be used as a replacement for most other constructs at mapping level 2.1 onwards. A change of this type can usually be made without breaking interoperability with partner processes that are implemented using the original XML schema or WSDL document.

If changing/simplifying the XML schema or WSDL is not acceptable then other options exist

- If you are using DFHWS2LS, then at runtime level 2.1 onwards you can use the XML-ONLY parameter to opt-out of the CICS supplied XML transformation service. This results in a WSBind file being generated that tells CICS that the application will work directly with the SOAP Body in the DFHWS-BODY container.
- Other products may exist that support the required XML constructs. For example, IBM's Rational Developer for System Z (RDz) product can generate WSBind files that use a different underlying transformation service and are subject to a different set of restrictions.
- If you are implementing a Web service provider application then you could consider writing your own XML capable SOAP application handler.
- If you are implementing a Web service requester application then you could consider writing an XML capable application that uses the DFHPIRT channel linkable SOAP interface.

Module: DFHWS2LS, DFHSC2LS

Destination: SYSPRINT

DFHPI9014E No model group found for model group definition *definition***.**

Explanation: There is an error in an XML schema. A required model group cannot be found for model group definition *definition*.

System action: The Web services or XML assistant continues processing.

User response: Correct the XML schema and then resubmit the DFHWS2LS or DFHSC2LS job to re-process the WSDL document.

Module: DFHWS2LS, DFHSC2LS

Destination: SYSPRINT

DFHPI9015E A schema particle with unrecognized content has been found *value***.**

Explanation: There is an error in an XML schema. An XML particle *value* has been found with unrecognized content.

System action: The Web services or XML assistant continues processing.

User response: Correct the XML schema and then resubmit the DFHWS2LS or DFHSC2LS job to re-process the input document.

Module: DFHWS2LS, DFHSC2LS

Destination: SYSPRINT

DFHPI9016E Required schema element *element* cannot be found.

Explanation: There is an error in an XML schema. A schema element that has been referenced cannot be found. The missing element is *element*.

System action: The Web services or XML assistant continues processing.

User response: Correct the XML schema or the WSDL and then resubmit the DFHWS2LS or DFHSC2LS job to re-process the WSDL document.

Module: DFHWS2LS, DFHSC2LS

Destination: SYSPRINT

DFHPI9017E Unsupported attribute *attribute* found for schema element *element*.

Explanation: An attribute that is not supported has been found in an XML schema. DFHWS2LS and DFHSC2LS do not support the following schema attributes: 'substitutionGroup', 'abstract' and 'fixed'. The unsupported attribute has been found in schema element *element*.

Abstract elements are supported at mapping level 2.1.

System action: The Web services or XML assistant continues processing.

User response: Consider changing the WSDL document or XML schema to avoid this problem. For example, you could

- Change the problematic XML construct for a different one that is supported. For example, the xsd:any construct is supported by both DFHWS2LS and DFHSC2LS and can be used as a replacement for most other constructs at mapping level 2.1 onwards. A change of this type can usually be made without breaking interoperability with partner processes that are implemented using the original XML schema or WSDL document.

If changing/simplifying the XML schema or WSDL is not acceptable then other options exist

- If you are using DFHWS2LS, then at runtime level 2.1 onwards you can use the XML-ONLY parameter to opt-out of the CICS supplied XML transformation service. This results in a WSBind file being generated that tells CICS that the application will work directly with the SOAP Body in the DFHWS-BODY container.
- Other products may exist that support the required XML constructs. For example, IBM's Rational Developer for System Z (RDz) product can generate WSBind files that use a different underlying transformation service and are subject to a different set of restrictions.
- If you are implementing a Web service provider application then you could consider writing your own XML capable SOAP application handler.
- If you are implementing a Web service requester application then you could consider writing an XML capable application that uses the DFHPIRT channel linkable SOAP interface.

Module: DFHWS2LS, DFHSC2LS

Destination: SYSPRINT

DFHPI9018E Schema element *element* is missing a type definition.

Explanation: There is an error in an XML schema. XML schema element *element*. does not reference an XML type.

System action: The Web services or XML assistant continues processing.

User response: Correct the XML schema and then resubmit the DFHWS2LS or DFHSC2LS job to re-process the input document.

Module: DFHWS2LS, DFHSC2LS

Destination: SYSPRINT

DFHPI9019E Schema type *type* is not supported.

Explanation: An XML schema contains an XML type that is not supported by DFHWS2LS or DFHSC2LS. The unsupported XML type is *type*.

System action: The Web services or XML assistant continues processing.

User response: Consider changing the WSDL document or XML schema to avoid this problem. For example, you could

- Change the problematic XML construct for a different one that is supported. For example, the xsd:any construct is supported by both DFHWS2LS and DFHSC2LS and can be used as a replacement for most other constructs at mapping level 2.1 onwards. A change of this type can usually be made without breaking interoperability with partner processes that are implemented using the original XML schema or WSDL document.

If changing/simplifying the XML schema or WSDL is not acceptable then other options exist

- If you are using DFHWS2LS, then at runtime level 2.1 onwards you can use the XML-ONLY parameter to opt-out of the CICS supplied XML transformation service. This results in a WSBind file being generated that tells CICS that the application will work directly with the SOAP Body in the DFHWS-BODY container.
- Other products may exist that support the required XML constructs. For example, IBM's Rational Developer for System Z (RDz) product can generate

WSBind files that use a different underlying transformation service and are subject to a different set of restrictions.

- If you are implementing a Web service provider application then you could consider writing your own XML capable SOAP application handler.
- If you are implementing a Web service requester application then you could consider writing an XML capable application that uses the DFHPIRT channel linkable SOAP interface.

Module: DFHWS2LS, DFHSC2LS

Destination: SYSPRINT

DFHPI9020W Schema attribute *attribute* has been found and ignored for type *type*.

Explanation: An XML schema contains an XML type definition with an attribute. XML attributes are not supported at mapping level 1.0, though they are tolerated. XML attributes are fully supported at mapping level 1.1.

System action: The Web services or XML assistant continues processing. If the attribute is present in a SOAP message sent to CICS at runtime then it will be ignored.

User response: Consider specifying a MAPPING-LEVEL of at least 1.1.

Module: DFHWS2LS, DFHSC2LS

Destination: SYSPRINT

DFHPI9021E A schema type with unrecognized content has been found: *value*.

Explanation: There is an error in an XML schema. An XML type *value* has been found with unrecognized content.

System action: The Web services or XML assistant continues processing.

User response: Correct the XML schema and then resubmit the DFHWS2LS or DFHSC2LS job to re-process the input document.

Module: DFHWS2LS, DFHSC2LS

Destination: SYSPRINT

DFHPI9022W Schema type *type* is being restricted to a total of *value* digits in the response message of operation *operation*.

Explanation: An XML schema contains type definition *type*. This type specifies a total number of digits which is too large for the target programming language to support. DFHWS2LS is restricting the type definition to a total of *value* digits. This type appears in the response message for operation *operation*.

System action: The Web services assistant continues processing. If at runtime a SOAP message is received with a value which is too large for the target field in the language structure then a conversion error will be indicated.

User response: Consider whether you need to be able to support numbers which require more digits than are allowed. If it is acceptable for CICS to impose this maximum length then you may safely ignore this message.

Consider changing the WSDL document or XML schema to avoid this problem. For example, you could

- Change the problematic XML construct for a different one that is supported. For example, the xsd:any construct is supported by both DFHWS2LS and DFHSC2LS and can be used as a replacement for most other constructs at mapping level 2.1 onwards. A change of this type can usually be made without breaking interoperability with partner processes that are implemented using the original XML schema or WSDL document.

If changing/simplifying the XML schema or WSDL is not acceptable then other options exist

- If you are using DFHWS2LS, then at runtime level 2.1 onwards you can use the XML-ONLY parameter to opt-out of the CICS supplied XML transformation service. This results in a WSBind file being generated that tells CICS that the application will work directly with the SOAP Body in the DFHWS-BODY container.
- Other products may exist that support the required XML constructs. For example, IBM's Rational Developer for System Z (RDz) product can generate WSBind files that use a different underlying transformation service and are subject to a different set of restrictions.
- If you are implementing a Web service provider application then you could consider writing your own XML capable SOAP application handler.
- If you are implementing a Web service requester application then you could consider writing an XML capable application that uses the DFHPIRT channel linkable SOAP interface.

Module: DFHWS2LS

Destination: SYSPRINT

DFHPI9023W Schema type *type* is being restricted to a total of *value* digits for operation *operation*.

Explanation: An XML schema referenced from the WSDL document contains type definition *type*. This type specifies a total number of digits which is too large for the target programming language to support. DFHWS2LS is restricting the type definition to a total of *value* digits. This type appears in the request message for operation *operation*.

System action: The Web services assistant continues processing. If at runtime a SOAP message is received with a value which is too large for the target field in the language structure then a conversion error will be indicated.

User response: Consider whether you need to be able to support numbers which require more digits than are allowed in the DFHWS2LS mappings. If it is acceptable for CICS to impose this maximum length then you may safely ignore this message.

Consider changing the WSDL document or XML schema to avoid this problem. For example, you could

- Change the problematic XML construct for a different one that is supported. For example, the xsd:any construct is supported by both DFHWS2LS and DFHSC2LS and can be used as a replacement for most other constructs at mapping level 2.1 onwards. A change of this type can usually be made without breaking interoperability with partner processes that are implemented using the original XML schema or WSDL document.

If changing/simplifying the XML schema or WSDL is not acceptable then other options exist

- If you are using DFHWS2LS, then at runtime level 2.1 onwards you can use the XML-ONLY parameter to opt-out of the CICS supplied XML transformation service. This results in a WSBind file being generated that tells CICS that the application will work directly with the SOAP Body in the DFHWS-BODY container.
- Other products may exist that support the required XML constructs. For example, IBM's Rational Developer for System Z (RDz) product can generate WSBind files that use a different underlying transformation service and are subject to a different set of restrictions.
- If you are implementing a Web service provider application then you could consider writing your own XML capable SOAP application handler.
- If you are implementing a Web service requester application then you could consider writing an XML capable application that uses the DFHPIRT channel linkable SOAP interface.

Module: DFHWS2LS

Destination: SYSPRINT

DFHPI9024E Recursion within type *type* is not supported.

Explanation: An XML schema contains a type definition which is defined recursively. DFHWS2LS and DFHSC2LS do not support recursive definitions. The recursively defined type is *type*.

System action: The Web services or XML assistant continues processing.

User response: Consider changing the WSDL document or XML schema to avoid this problem. For example, you could

- Change the problematic XML construct for a different one that is supported. For example, the xsd:any construct is supported by both DFHWS2LS and DFHSC2LS and can be used as a replacement for most other constructs at mapping level 2.1 onwards. A change of this type can usually be made without breaking interoperability with partner processes that are implemented using the original XML schema or WSDL document.

If changing/simplifying the XML schema or WSDL is not acceptable then other options exist

- If you are using DFHWS2LS, then at runtime level 2.1 onwards you can use the XML-ONLY parameter to opt-out of the CICS supplied XML transformation service. This results in a WSBind file being generated that tells CICS that the application will work directly with the SOAP Body in the DFHWS-BODY container.
- Other products may exist that support the required XML constructs. For example, IBM's Rational Developer for System Z (RDz) product can generate WSBind files that use a different underlying transformation service and are subject to a different set of restrictions.
- If you are implementing a Web service provider application then you could consider writing your own XML capable SOAP application handler.
- If you are implementing a Web service requester application then you could consider writing an XML capable application that uses the DFHPIRT channel linkable SOAP interface.

Module: DFHWS2LS, DFHSC2LS

Destination: SYSPRINT

DFHPI9025E Required schema type *type* cannot be found.

Explanation: There is an error in an XML schema. A schema type definition cannot be found. The missing type is *type*.

System action: The Web services or XML assistant continues processing.

User response: Correct the XML schema or the WSDL document and then resubmit the DFHWS2LS or DFHSC2LS job to reprocess the input document.

Module: DFHWS2LS, DFHSC2LS

Destination: SYSPRINT

DFHPI9026E URI *uri* cannot be resolved. Consider checking that the HTTP Proxy is correct.

Explanation: A namespace reference cannot be resolved. DFHWS2LS or DFHSC2LS has attempted to use the URI from the namespace to resolve the

reference but has not been able to do so. This may be because a HTTP proxy service has not been specified or because there is no content available at the location implied by the URI. The URI is *uri*.

System action: The Web services or XML assistant continues processing.

User response: Specify the location of the HTTP proxy to use via the HTTPPROXY parameter. If the correct proxy has already been specified or if there is genuinely no content available at the location implied by the URI then add a schemaLocation XML attribute to the WSDL or schema in order to allow the namespace to be resolved.

Module: DFHWS2LS, DFHSC2LS

Destination: SYSPRINT

DFHPI9027E The XML parser has found an error: *value* at line *line* and column *column* in document *document*.

Explanation: The XML parser that is used to read XML schemas has encountered a problem. The problem has been found in document *document* at line *line* and column *column*. The message issued by the XML parser is: *value*.

System action: The Web services or XML assistant continues processing.

User response: Correct the problem and then resubmit the DFHWS2LS or DFHSC2LS job to re-process the input document.

Module: DFHWS2LS, DFHSC2LS

Destination: SYSPRINT

DFHPI9028E The length of schema element *element* is set to *value* characters. CICS only supports up to *value2* characters.

Explanation: An XML schema contains element *element*. This element specifies a maximum size which is too large for DFHWS2LS or DFHSC2LS to support. The XML schema has requested a length of up to *value* characters but the largest number supported is *value2* characters.

System action: The Web services or XML assistant continues processing.

User response: Consider changing the WSDL document or XML schema to avoid this problem. For example, you could

- Change the problematic XML construct for a different one that is supported. For example, the xsd:any construct is supported by both DFHWS2LS and DFHSC2LS and can be used as a replacement for most other constructs at mapping level 2.1 onwards. A change of this type can usually be made without breaking interoperability with partner processes that are implemented using the original XML schema or WSDL document.

If changing/simplifying the XML schema or WSDL is not acceptable then other options exist

- If you are using DFHWS2LS, then at runtime level 2.1 onwards you can use the XML-ONLY parameter to opt-out of the CICS supplied XML transformation service. This results in a WSBind file being generated that tells CICS that the application will work directly with the SOAP Body in the DFHWS-BODY container.
- Other products may exist that support the required XML constructs. For example, IBM's Rational Developer for System Z (RDz) product can generate WSBind files that use a different underlying transformation service and are subject to a different set of restrictions.
- If you are implementing a Web service provider application then you could consider writing your own XML capable SOAP application handler.
- If you are implementing a Web service requester application then you could consider writing an XML capable application that uses the DFHPIRT channel linkable SOAP interface.

Module: DFHWS2LS, DFHSC2LS

Destination: SYSPRINT

DFHPI9029E Implicit padding (slack bytes) are not supported for PL/I. Please change the language structure to ensure that all slack bytes are explicitly referenced and that top level structures start on a double-word boundary. Slack bytes are needed near or around field *field*.

Explanation: DFHLS2WS and DFHLS2SC are unable to determine the location of where slack bytes (also known as filler bytes) should be placed when PL/I is used to define a language structure. It has been determined that one or more slack bytes are needed somewhere near to field *field*, though the precise location is not known.

System action: The Web services or XML assistant continues processing.

User response: Change the language structure to ensure that every byte is explicitly referenced and so that the first entry in the language structure starts on a double word boundary. If you are unable to predict precisely where filler fields must be placed to meet these requirements you could consider marking the fields as UNALIGNED and recompiling the application.

Any sub-structures within the language structure must begin on the same alignment as the most aligned item within the structure.

If you are using DFHLS2WS then an alternative solution is to create a wrapper program. A wrapper

program is a program which accepts input in a format that is suitable for use with DFHLS2WS and maps that input to the format needed by the target program. It then issues a LINK to the target program before converting the response back to an output format which is also suitable for use with DFHLS2WS.

Module: DFHLS2WS, DFHLS2SC

Destination: SYSPRINT

DFHPI9030E Implicit padding (slack bytes) are not supported for PL/I. Please change the language structure to ensure that all slack bytes are explicitly referenced and that top level structures start on a double-word boundary. Slack bytes are needed near or around structure *structure***.**

Explanation: DFHLS2WS and DFHLS2SC are unable to determine the location of where slack bytes (also known as filler bytes) should be placed when PL/I is used to define a language structure. It has been determined that one or more slack bytes are needed somewhere near to structure *structure*, though the precise location is not known.

System action: The Web services or XML assistant continues processing.

User response: Change the language structure to ensure that every byte is explicitly referenced and so that the first entry in the language structure starts on a double word boundary. If you are unable to predict precisely where filler fields must be placed to meet these requirements you could consider marking the fields as UNALIGNED and recompiling the application.

Any sub-structures within the language structure must begin on the same alignment as the most aligned item within the structure.

If you are using DFHLS2WS then an alternative solution is to create a wrapper program. A wrapper program is a program which accepts input in a format that is suitable for use with DFHLS2WS and maps that input to the format needed by the target program. It then issues a LINK to the target program before converting the response back to an output format which is also suitable for use with DFHLS2WS.

Module: DFHLS2WS, DFHLS2SC

Destination: SYSPRINT

DFHPI9031E A structure or array is unexpectedly empty.

Explanation: DFHLS2WS or DFHLS2SC has encountered a problem whilst parsing a language structure. It has reached the end of the language structure and has either found insufficient closing statements to match the number of opening statements or has found an empty sub-structure. This message can imply an internal processing error has occurred that requires a fix from IBM.

DFHLS2WS or DFHLS2SC is unable to determine which line in the language structure starts the sub-structure that is empty or unclosed. This message is generated as a back-stop condition to prevent an erroneous WSBind file being deployed to CICS.

The conditions under which this message may be issued are

- A field in a PL/I language structure has been defined without specifying the data type. In this scenario DFHLS2WS and DFHLS2SC may assume that the field is the start of an empty sub-structure.
- A sub-structure exists in the language structure, but each entry within the sub-structure is unsupported.
- DFHLS2WS or DFHLS2SC has failed to understand an entry in the language structure. This may be due to a spelling mistake in the language structure, or the presence of an unsupported keyword.

System action: The Web services or XML assistant continues processing.

User response: Change the language structure to correct any other reported problems. Supply explicit definitions for any fields which have been defined with default characteristics.

Ensure that the language structure is well formed. Check that the compiler is able to understand the language structure.

If these changes do not resolve the problem then contact your IBM support representative for further assistance.

Module: DFHLS2WS, DFHLS2SC

Destination: SYSPRINT

DFHPI9032W Schema attribute wild cards (<anyAttribute> tags) are not supported.

Explanation: An XML schema contains a schema attribute wild card (the <anyAttribute> XML schema tag). DFHWS2LS and DFHSC2LS do not support attributes that are referenced in this way.

System action: The Web services or XML assistant continues processing and the schema attribute wild card is ignored. If at runtime a message containing unrecognized attributes is received these attributes are ignored.

User response: Consider whether the value of these attributes is important to your application. If it is acceptable for CICS to ignore these attributes then you may safely ignore this message.

Consider changing the WSDL document or XML schema to avoid this problem. For example, you could

- Change the problematic XML construct for a different one that is supported. For example, the

xsd:any construct is supported by both DFHWS2LS and DFHSC2LS and can be used as a replacement for most other constructs at mapping level 2.1 onwards. A change of this type can usually be made without breaking interoperability with partner processes that are implemented using the original XML schema or WSDL document.

If changing/simplifying the XML schema or WSDL is not acceptable then other options exist

- If you are using DFHWS2LS, then at runtime level 2.1 onwards you can use the XML-ONLY parameter to opt-out of the CICS supplied XML transformation service. This results in a WSBind file being generated that tells CICS that the application will work directly with the SOAP Body in the DFHWS-BODY container.
- Other products may exist that support the required XML constructs. For example, IBM's Rational Developer for System Z (RDz) product can generate WSBind files that use a different underlying transformation service and are subject to a different set of restrictions.
- If you are implementing a Web service provider application then you could consider writing your own XML capable SOAP application handler.
- If you are implementing a Web service requester application then you could consider writing an XML capable application that uses the DFHPIRT channel linkable SOAP interface.

Module: DFHWS2LS, DFHSC2LS

Destination: SYSPRINT

DFHPI9033E Duplicate elements with the same name in the same scope are not supported. The duplicated name is *name*.

Explanation: An XML element has been defined twice within the same construct. This is not supported by DFHWS2LS or DFHSC2LS except through the use of minOccurs and maxOccurs attributes. CICS does support arrays of elements with the same name, but not a sequence of two or more identically named elements.

System action: The Web services or XML assistant continues processing.

User response: Consider changing the WSDL document or XML schema to avoid this problem. For example, you could

- Change the problematic XML construct for a different one that is supported. For example, the xsd:any construct is supported by both DFHWS2LS and DFHSC2LS and can be used as a replacement for most other constructs at mapping level 2.1 onwards. A change of this type can usually be made without breaking interoperability with partner processes that are implemented using the original XML schema or WSDL document.

If changing/simplifying the XML schema or WSDL is not acceptable then other options exist

- If you are using DFHWS2LS, then at runtime level 2.1 onwards you can use the XML-ONLY parameter to opt-out of the CICS supplied XML transformation service. This results in a WSBind file being generated that tells CICS that the application will work directly with the SOAP Body in the DFHWS-BODY container.
- Other products may exist that support the required XML constructs. For example, IBM's Rational Developer for System Z (RDz) product can generate WSBind files that use a different underlying transformation service and are subject to a different set of restrictions.
- If you are implementing a Web service provider application then you could consider writing your own XML capable SOAP application handler.
- If you are implementing a Web service requester application then you could consider writing an XML capable application that uses the DFHPIRT channel linkable SOAP interface.

Module: DFHWS2LS, DFHSC2LS

Destination: SYSPRINT

DFHPI9034W Schema type *type* is being restricted to a total of *value* digits.

Explanation: An XML schema document contains type definition *type*. This type specifies a total number of digits which is too large for the target programming language to support. DFHSC2LS is restricting the type definition to a total of *value* digits.

System action: The XML assistant continues processing. If at runtime an XML document is processed with a value which is too large for the target field in the language structure then a conversion error will be indicated.

User response: Consider whether you need to be able to support numbers which require more digits than are allowed in the DFHSC2LS mappings. If it is acceptable for CICS to impose this maximum length then you may safely ignore this message.

Consider changing the WSDL document or XML schema to avoid this problem. For example, you could

- Change the problematic XML construct for a different one that is supported. For example, the xsd:any construct is supported by both DFHWS2LS and DFHSC2LS and can be used as a replacement for most other constructs at mapping level 2.1 onwards. A change of this type can usually be made without breaking interoperability with partner processes that are implemented using the original XML schema or WSDL document.

If changing/simplifying the XML schema or WSDL is not acceptable then other options exist

- If you are using DFHWS2LS, then at runtime level 2.1 onwards you can use the XML-ONLY parameter to opt-out of the CICS supplied XML transformation service. This results in a WSBind file being generated that tells CICS that the application will work directly with the SOAP Body in the DFHWS-BODY container.
- Other products may exist that support the required XML constructs. For example, IBM's Rational Developer for System Z (RDz) product can generate WSBind files that use a different underlying transformation service and are subject to a different set of restrictions.
- If you are implementing a Web service provider application then you could consider writing your own XML capable SOAP application handler.
- If you are implementing a Web service requester application then you could consider writing an XML capable application that uses the DFHPIRT channel linkable SOAP interface.

Module: DFHSC2LS

Destination: SYSPRINT

DFHPI9035E XML Schema element cannot be found in document *document***.**

Explanation: An XML schema cannot be found within the specified document.

System action: The Web services or XML assistant continues processing.

User response: Correct the WSDL or SCHEMA input parameter to point to a valid document that contains XML schemas.

Consider changing the WSDL document or XML schema to avoid this problem. For example, you could

- Change the problematic XML construct for a different one that is supported. For example, the xsd:any construct is supported by both DFHWS2LS and DFHSC2LS and can be used as a replacement for most other constructs at mapping level 2.1 onwards. A change of this type can usually be made without breaking interoperability with partner processes that are implemented using the original XML schema or WSDL document.

If changing/simplifying the XML schema or WSDL is not acceptable then other options exist

- If you are using DFHWS2LS, then at runtime level 2.1 onwards you can use the XML-ONLY parameter to opt-out of the CICS supplied XML transformation service. This results in a WSBind file being generated that tells CICS that the application will work directly with the SOAP Body in the DFHWS-BODY container.
- If you are implementing a Web service provider application then you could consider writing your own XML capable SOAP application handler.
- If you are implementing a Web service requester application then you could consider writing an XML capable application that uses the DFHPIRT channel linkable SOAP interface.
- Other products may exist that can help process or omit the problematic XML constructs. For example, IBM's Rational Developer for System Z (RDz) product supports a "meet-in-middle" mapping scenario that allows omitting of specific XML constructs.

Module: DFHWS2LS, DFHSC2LS

Destination: SYSPRINT

DFHPI9036W Abstract Data Types are not supported. Problems may be experienced with type *type* **in element** *element***.**

Explanation: An XML schema contains an abstract data type. Abstract data types are supported at mapping level 2.2. At earlier mapping levels they are tolerated, but the mappings used are unlikely to be acceptable.

System action: The Web services or XML assistant continues processing and the abstract data type is treated as a non-abstract data type.

User response: Consider using mapping level 2.2.

Consider changing the WSDL document or XML schema to avoid this problem. For example, you could

- Change the problematic XML construct for a different one that is supported. For example, the xsd:any construct is supported by both DFHWS2LS and DFHSC2LS and can be used as a replacement for most other constructs at mapping level 2.1 onwards. A change of this type can usually be made without breaking interoperability with partner processes that are implemented using the original XML schema or WSDL document.

If changing/simplifying the XML schema or WSDL is not acceptable then other options exist

- If you are using DFHWS2LS, then at runtime level 2.1 onwards you can use the XML-ONLY parameter to opt-out of the CICS supplied XML transformation service. This results in a WSBind file being generated that tells CICS that the application will work directly with the SOAP Body in the DFHWS-BODY container.
- If you are implementing a Web service provider application then you could consider writing your own XML capable SOAP application handler.
- If you are implementing a Web service requester application then you could consider writing an XML capable application that uses the DFHPIRT channel linkable SOAP interface.
- Other products may exist that can help process or omit the problematic XML constructs. For example, IBM's Rational Developer for System Z (RDz)

product supports a "meet-in-middle" mapping scenario that allows omitting of specific XML constructs.

Module: DFHWS2LS, DFHSC2LS

Destination: SYSPRINT

DFHPI9037E XML Schema model groups are not supported within <choice> structures. Problem found in type *type*.

Explanation: An XML model group (xsd:choice, xsd:sequence, xsd:all or xsd:group) has been found within an xsd:choice structure. This is not supported at mapping levels 2.1 and below. Some of these restrictions are removed at mapping level 2.2.

Xsd:choice constructs are not supported within other xsd:choice constructs at any mapping level.

System action: The Web services or XML assistant continues processing.

User response: Consider changing the WSDL document or XML schema to avoid this problem. For example, you could

- Change the problematic XML construct for a different one that is supported. For example, the xsd:any construct is supported by both DFHWS2LS and DFHSC2LS and can be used as a replacement for most other constructs at mapping level 2.1 onwards. A change of this type can usually be made without breaking interoperability with partner processes that are implemented using the original XML schema or WSDL document.

If changing/simplifying the XML schema or WSDL is not acceptable then other options exist

- If you are using DFHWS2LS, then at runtime level 2.1 onwards you can use the XML-ONLY parameter to opt-out of the CICS supplied XML transformation service. This results in a WSBind file being generated that tells CICS that the application will work directly with the SOAP Body in the DFHWS-BODY container.
- If you are implementing a Web service provider application then you could consider writing your own XML capable SOAP application handler.
- If you are implementing a Web service requester application then you could consider writing an XML capable application that uses the DFHPIRT channel linkable SOAP interface.
- Other products may exist that can help process or omit the problematic XML constructs. For example, IBM's Rational Developer for System Z (RDz) product supports a "meet-in-middle" mapping scenario that allows omitting of specific XML constructs.

Module: DFHWS2LS, DFHSC2LS

Destination: SYSPRINT

DFHPI9038E The number of options for an enumerated set of options exceeds the maximum supported value of 255.

Explanation: An XML schema referenced within the input document contains an enumerated construct with more than 255 possible substitutable values. This may be an xsd:choice construct, a substitution group or an abstract data type.

System action: The Web services or XML assistant continues processing.

User response: Consider changing the WSDL document or XML schema to avoid this problem. For example, you could

- Change the problematic XML construct for a different one that is supported. For example, the xsd:any construct is supported by both DFHWS2LS and DFHSC2LS and can be used as a replacement for most other constructs at mapping level 2.1 onwards. A change of this type can usually be made without breaking interoperability with partner processes that are implemented using the original XML schema or WSDL document.

If changing/simplifying the XML schema or WSDL is not acceptable then other options exist

- If you are using DFHWS2LS, then at runtime level 2.1 onwards you can use the XML-ONLY parameter to opt-out of the CICS supplied XML transformation service. This results in a WSBind file being generated that tells CICS that the application will work directly with the SOAP Body in the DFHWS-BODY container.
- If you are implementing a Web service provider application then you could consider writing your own XML capable SOAP application handler.
- If you are implementing a Web service requester application then you could consider writing an XML capable application that uses the DFHPIRT channel linkable SOAP interface.
- Other products may exist that can help process or omit the problematic XML constructs. For example, IBM's Rational Developer for System Z (RDz) product supports a "meet-in-middle" mapping scenario that allows omitting of specific XML constructs.

Module: DFHWS2LS, DFHSC2LS

Destination: SYSPRINT

DFHPI9039E Substitution groups within xsd:choice constructs are not supported. The substitution group name is *name*.

Explanation: An xsd an xsd:choice construct. This combination of constructs is not supported.

System action: The Web services or XML assistant continues processing.

User response: Consider changing the WSDL document or XML schema to avoid this problem. For example, you could

- Change the problematic XML construct for a different one that is supported. For example, the xsd:any construct is supported by both DFHWS2LS and DFHSC2LS and can be used as a replacement for most other constructs at mapping level 2.1 onwards. A change of this type can usually be made without breaking interoperability with partner processes that are implemented using the original XML schema or WSDL document.

If changing/simplifying the XML schema or WSDL is not acceptable then other options exist

- If you are using DFHWS2LS, then at runtime level 2.1 onwards you can use the XML-ONLY parameter to opt-out of the CICS supplied XML transformation service. This results in a WSBind file being generated that tells CICS that the application will work directly with the SOAP Body in the DFHWS-BODY container.
- If you are implementing a Web service provider application then you could consider writing your own XML capable SOAP application handler.
- If you are implementing a Web service requester application then you could consider writing an XML capable application that uses the DFHPIRT channel linkable SOAP interface.
- Other products may exist that can help process or omit the problematic XML constructs. For example, IBM's Rational Developer for System Z (RDz) product supports a "meet-in-middle" mapping scenario that allows omitting of specific XML constructs.

Module: DFHWS2LS, DFHSC2LS

Destination: SYSPRINT

DFHPI9040 E Array *name* occurs *occurs* times. The largest supported value is *max*.

Explanation: An internal limitation limits the maximum supported size for an array. There is an array in the input data that is larger than this maximum value.

System action: The Web services or XML assistant continues processing.

User response: Consider changing the WSDL document or XML schema to avoid this problem. For example, you could change the problematic XML construct for a different one that is supported.

For example, the xsd:any construct is supported by both DFHWS2LS and DFHSC2LS and can be used as a replacement for most other constructs at mapping level 2.1 onwards. A change of this type can usually be made without breaking interoperability with partner processes that are implemented using the original XML schema or WSDL document. If changing or simplifying the XML schema or WSDL is not acceptable then other options exist

- If you are using DFHWS2LS, then at runtime level 2.1 onwards you can use the XML-ONLY parameter to opt-out of the CICS supplied XML transformation service. This results in a WSBind file being generated that tells CICS that the application will work directly with the SOAP Body in the DFHWS-BODY container.
- If you are implementing a Web service provider application then you could consider writing your own XML capable SOAP application handler.
- If you are implementing a Web service requester application then you could consider writing an XML capable application that uses the DFHPIRT channel linkable SOAP interface.
- Other products may exist that can help process or omit the problematic XML constructs. For example, IBM's Rational Developer for System Z (RDz) product supports a "meet-in-middle" mapping scenario that allows omitting of specific XML constructs.

Module: DFHWS2LS, DFHSC2LS, DFHLS2WS, DFHLS2SC

Destination: SYSPRINT

DFHPI9500E An internal error has occurred. Please contact IBM Support.

Explanation: The Web services or XML assistant has caught an unexpected exception.

System action: The Web services or XML assistant continues processing.

User response: Review any other messages that have been issued by the assistant. If those messages suggest remedies to the problem then act on them.

If after resolving any other problems this message is still being issued, you should contact your IBM support representative for further assistance. You are likely to be asked to supply the LOGFILE that was generated by the assistants.

Module: DFHWS2LS, DFHLS2WS, DFHSC2LS, DFHLS2SC

Destination: SYSPRINT

DFHPI9501E The HTTPPROXY parameter is invalid. The correct format is proxy.hostname.com:8080 or similar.

Explanation: The value of the HTTPPROXY parameter is invalid.

System action: The Web services or XML assistant continues processing.

User response: Correct or remove the HTTPPROXY parameter.

Module: DFHWS2LS, DFHSC2LS

Destination: SYSPRINT

DFHPI9502E One or more incorrect parameters have been specified.

Explanation: The Web services or XML assistant cannot continue as one or more errors have been detected in the input parameters.

System action: The Web services or XML assistant fails with a return code of 8.

User response: Correct the errors in the input parameters details of which can be found in the previous messages issued.

Module: DFHWS2LS, DFHLS2WS, DFHSC2LS, DFHLS2SC

Destination: SYSPRINT

DFHPI9503E Required parameter *parameter* **is missing.**

Explanation: A required parameter is missing from the input parameters. The missing parameter is *parameter*.

System action: The Web services or XML assistant continues processing.

User response: Provide a value for the missing parameter.

Module: DFHWS2LS, DFHLS2WS, DFHSC2LS, DFHLS2SC

Destination: SYSPRINT

DFHPI9504E Parameter *parameter* **has been specified but is not valid for program** *program***.**

Explanation: A parameter has been specified that was not expected. For example, a value may have been provided for the BINDING parameter in DFHLS2WS. A BINDING is only valid as input to DFHWS2LS. The unexpected parameter is *parameter*.

System action: The Web services or XML assistant continues processing.

User response: Remove the unexpected parameter.

Module: DFHWS2LS, DFHLS2WS, DFHSC2LS, DFHLS2SC

Destination: SYSPRINT

DFHPI9505E Invalid value specified for the LANG parameter. Valid values are COBOL, PLI-ENTERPRISE, PLI-OTHER, C or CPP.

Explanation: An invalid value has been specified for the LANG parameter.

System action: The Web services or XML assistant continues processing.

User response: Correct the value of the LANG parameter.

Module: DFHWS2LS, DFHLS2WS, DFHSC2LS, DFHLS2SC

Destination: SYSPRINT

DFHPI9506 E Parameter *parameter* **exceeds the maximum valid length of** *max* **characters. The supplied value is** *value***.**

Explanation: The value of parameter *parameter* is too long.

System action: The Web services or XML assistant continues processing.

User response: Change value *value* to be no longer than *max* characters long.

Module: DFHWS2LS, DFHLS2WS, DFHSC2LS, DFHLS2SC

Destination: SYSPRINT

DFHPI9507W Parameter *parameter* **is not set therefore parameter** *parameter2* **is ignored.**

Explanation: Parameter *parameter2* has been ignored because parameter *parameter* is not set. For example, a PGMINT value only makes sense if a PROGRAM value has also been supplied.

System action: The Web services or XML assistant continues processing.

User response: Consider removing the unexpected parameter.

Module: DFHWS2LS, DFHLS2WS, DFHSC2LS, DFHLS2SC

Destination: SYSPRINT

DFHPI9509E Parameter *parameter* **contains invalid characters.**

Explanation: One or more invalid characters have been found in parameter *parameter*.

System action: The Web services or XML assistant continues processing.

User response: Correct the value of the parameter.

Module: DFHWS2LS, DFHLS2WS, DFHSC2LS, DFHLS2SC

Destination: SYSPRINT

DFHPI9510W Invalid value specified for the PGMINT parameter. Valid values are CHANNEL or COMMAREA. The default value of CHANNEL is assumed.

Explanation: An invalid value has been specified for the PGMINT parameter.

System action: The Web services assistant continues processing.

User response: Correct the value of the PGMINT parameter.

Module: DFHWS2LS, DFHLS2WS

Destination: SYSPRINT

DFHPI9511W Parameter PGMINT is set to CHANNEL but parameter CONTID is not set. The default value of *value* is assumed.

Explanation: The program interface has been defined as 'Channel' but a container name has not been provided to indicate the name of the container that CICS should populate at runtime. A default value of *value* has been assumed.

System action: The Web services assistant continues processing.

User response: Consider whether the default container name is acceptable. If you are enabling an existing channel based application as a Web service then it is likely that the default container name is incorrect. If the default container name is acceptable then you can safely ignore this message.

Module: DFHWS2LS, DFHLS2WS

Destination: SYSPRINT

DFHPI9512W Parameter CONTID is set but not needed for PGMINT=COMMAREA. Parameter CONTID is ignored.

Explanation: The CONTID input parameter has been specified but is ignored as the program interface has been defined to be a commarea.

System action: The Web services assistant continues processing.

User response: Consider either removing the CONTID parameter or changing the PGMINT to CHANNEL.

Module: DFHWS2LS, DFHLS2WS

Destination: SYSPRINT

DFHPI9513W The value of parameter *parameter* is missing a file extension, *extension* is assumed.

Explanation: A file extension has not been provided for the Binding file. If you wish to use the PIPELINE scan mechanism for automatically creating WEBSERVICE resources from WSBind files then you must use an extension of '.wsbind'. This extension is assumed for WSBind files. An extension of '.xsdbind' is assumed for XSDBind files.

System action: The Web services assistant or XML assistant continues processing.

User response: Consider adding '.wsbind' to the end of your WSBIND parameter or '.xsdbind' to the end of your XSDBIND parameter value.

Module: DFHWS2LS, DFHLS2WS, DFHSC2LS, DFHLS2SC

Destination: SYSPRINT

DFHPI9514W The value of parameter *parameter* specified a file extension other than *extension*.

Explanation: A file extension other than the default one has been used for the Binding file. If you wish to use the PIPELINE scan mechanism for automatically creating WEBSERVICE resources from WSBind files then you must use an extension of '.wsbind'. The default extension for XSDBind files is '.xsdbind'.

System action: The Web services assistant or XML assistant continues processing.

User response: Consider changing the extension of the WSBIND parameter to '.wsbind', or the value of the XSDBIND parameter to '.xsdbind'.

Module: DFHWS2LS, DFHLS2WS, DFHSC2LS, DFHLS2SC

Destination: SYSPRINT

DFHPI9515E PDS library *library* cannot be found.

Explanation: The PDS library specified in the PDSLIB input parameter cannot be found.

System action: The Web services or XML assistant continues processing.

User response: Correct the PDSLIB input parameter.

Module: DFHWS2LS, DFHLS2WS, DFHSC2LS, DFHLS2SC

Destination: SYSPRINT

DFHPI9516E PDS library *library* exists but cannot be read.

Explanation: The PDS library specified in the PDSLIB input parameter exists but cannot be read. This may be because the userid under which the Web services or XML assistant is executing does not have permission to to view the PDS or because an exclusive lock is being held by another process.

System action: The Web services or XML assistant continues processing.

User response: Ensure that permission is assigned to allow the assistant to read from the PDSLIB. Ensure that no other process has a lock on the PDSLIB.

Module: DFHWS2LS, DFHLS2WS, DFHSC2LS, DFHLS2SC

Destination: SYSPRINT

DFHPI9517E PDS library *library* exists but cannot be written to.

Explanation: The PDS library specified in the PDSLIB input parameter exists but cannot be written to. This may be because the userid under which the Web services or XML assistant is executing does not have permission to alter the PDS or because an exclusive lock is being held by another process.

System action: The Web services or XML assistant continues processing.

User response: Ensure that permission is assigned to allow the assistant to alter the PDSLIB. Ensure that no other process has a lock on the PDSLIB.

Module: DFHWS2LS, DFHLS2WS, DFHSC2LS, DFHLS2SC

Destination: SYSPRINT

DFHPI9518W PDS library *library* specifies a record length less than 80 characters, output may be truncated.

Explanation: The PDS library specified in the PDSLIB input parameter specifies a record length less than 80 characters. DFHWS2LS and DFHSC2LS requires 80 characters for the creation of language structures, it is therefore likely that truncation will occur.

System action: The Web services or XML assistant continues processing.

User response: Consider changing the PDSLIB to a fixed record data set with a logical record length of 80 characters.

Module: DFHWS2LS, DFHLS2WS, DFHSC2LS, DFHLS2SC

Destination: SYSPRINT

DFHPI9519E Codepage *codepage* is not recognized.

Explanation: The codepage indicated in the PDSCP input parameter is not recognized. The Web services or XML assistant uses the codepage support built in to Java, Java does not recognize the named code page.

System action: The Web services or XML assistant continues processing.

User response: Remove or correct the PDSCP parameter. If the PDSCP parameter is not set then the same codepage is used when reading from and writing to the PDS library as is used when reading from and writing to HFS. This codepage is determined according to the default codepage configured for Unix System Services.

Module: DFHWS2LS, DFHLS2WS, DFHSC2LS, DFHLS2SC

Destination: SYSPRINT

DFHPI9520E Parameter RESPMEM and parameter REQMEM must supply different values.

Explanation: The same language structure name has been used for both the request and the response messages. DFHWS2LS requires that these names be unique even if it is likely that the generated language structures will be identical.

System action: The Web services assistant continues processing.

User response: Change one of the REQMEM and RESPMEM input parameters in order to make them unique.

Module: DFHWS2LS

Destination: SYSPRINT

DFHPI9521E The record format of PDS member *member* must be FB and have a record length of 80.

Explanation: The location at which the language structures are to be written to or read from is not a fixed block PDS member.

System action: The Web services or XML assistant continues processing.

User response: Change the location of the PDSLIB input parameter to indicate a FB data set.

Module: DFHWS2LS, DFHLS2WS, DFHSC2LS, DFHLS2SC

Destination: SYSPRINT

DFHPI9522E File *file* cannot be read.

Explanation: File *file* exists but cannot be read. This may be because the userid under which the assistants are executing does not have access permission to the specified resource.

System action: The Web services or XML assistant continues processing.

User response: Correct the problem.

Module: DFHLS2WS, DFHLS2SC

Destination: SYSPRINT

DFHPI9523E An unexpected error occurred whilst processing file *file*. The problem is: *value*.

Explanation: An exception was caught whilst attempting to process file *file*. The exception included a message to identify the problem which is indicated in *value*.

DFHWS2LS and DFHSC2LS require an exclusive lock on the partitioned data set to which they are writing language structures. This message may be issued if an exclusive lock is not currently available.

System action: The Web services or XML assistant continues processing.

User response: Correct the identified problem.

Module: DFHWS2LS, DFHLS2WS, DFHSC2LS, DFHLS2SC

Destination: SYSPRINT

DFHPI9524E File *file* cannot be written to.

Explanation: File *file* exists but cannot be written to. This may be because the userid under which DFHWS2LS or DFHSC2LS is executing does not have write permission to the specified resource.

System action: The Web services or XML assistant continues processing.

User response: Correct the problem.

Module: DFHWS2LS, DFHSC2LS

Destination: SYSPRINT

DFHPI9525E Cannot write a file because directory *directory* does not exist.

Explanation: Directory *directory* does not exist. Therefore the Web services or XML assistant is unable to create an output file that should be written to that directory.

System action: The Web services or XML assistant continues processing.

User response: Either create the directory or change the input parameters to indicate a different output location.

Module: DFHWS2LS, DFHLS2WS, DFHSC2LS, DFHLS2SC

Destination: SYSPRINT

DFHPI9526E Cannot write a file because directory *directory* is not writable.

Explanation: Directory *directory* exists but the userid under which the Web services or XML assistant is executing does not have write permission to create a new file within it.

System action: The Web services or XML assistant continues processing.

User response: Either change the permissions for the directory or change the input parameters to indicate a different output location.

Module: DFHWS2LS, DFHLS2WS, DFHSC2LS, DFHLS2SC

Destination: SYSPRINT

DFHPI9527E Cannot write to the log file, *file,* is not writable.

Explanation: File *file* exists but the userid under which the Web services or XML assistant is executing does not have write permission to change it.

System action: The Web services or XML assistant continues processing.

User response: Either change the permissions for the file or change the input parameters to indicate a different output location.

Module: DFHWS2LS, DFHLS2WS, DFHSC2LS, DFHLS2SC

Destination: SYSPRINT

DFHPI9528E Cannot find or read file *file*.

Explanation: File *file* either does not exist or the userid under which the Web services or XML assistant is executing does not have permission to read it.

System action: The Web services or XML assistant continues processing.

User response: Either change the permissions for the file or correct the input parameters to indicate a different input file.

Module: DFHWS2LS, DFHLS2WS, DFHSC2LS, DFHLS2SC

Destination: SYSPRINT

DFHPI9529W Characters beyond column *column* have been truncated for line *line*.

Explanation: The input parameters extend beyond character 72. The problematic line identified is *line*.

System action: The Web services or XML assistant continues processing.

User response: Either change the indicated line to use less than 72 characters of data or use the '*' line continuation character and continue on the next line.

Module: DFHWS2LS, DFHLS2WS, DFHSC2LS, DFHLS2SC

Destination: SYSPRINT

DFHPI9530I Parameter *parameter* is not recognized and has been ignored.

Explanation: An unrecognized parameter has been found amongst the input parameters.

System action: The Web services or XML assistant continues processing.

User response: Consider removing the named parameter.

Module: DFHWS2LS, DFHLS2WS, DFHSC2LS, DFHLS2SC

Destination: SYSPRINT

DFHPI9531E Parameter STRUCTURE must only contain (or) characters in the first or last position.

Explanation: The STRUCTURE input parameter is not well formed. It may only contain bracket characters at the start and end of the value.

System action: The Web services assistant continues processing.

User response: Correct the value of the STRUCTURE input parameter.

Module: DFHWS2LS, DFHLS2WS

Destination: SYSPRINT

DFHPI9532E Parameter STRUCTURE must be of the form STRUCTURE=(request_structure_name, response_structure_name).

Explanation: The STRUCTURE input parameter is not well formed. It should contain two structure names separated by a comma and entirely enclosed within rounded brackets as in the following example

STRUCTURE=(request_structure_name,response_structure_name).

System action: The Web services assistant continues processing.

User response: Correct the value of the STRUCTURE input parameter.

Module: DFHWS2LS, DFHLS2WS

Destination: SYSPRINT

DFHPI9533E Parameter *parameter* contains an invalid character *character* at position *position* in value *value*.

Explanation: An invalid character has been found in parameter *character*.

System action: The Web services or XML assistant continues processing.

User response: Correct the value of the named input parameter.

Module: DFHWS2LS, DFHLS2WS, DFHSC2LS, DFHLS2SC

Destination: SYSPRINT

DFHPI9534E Non-unique operation signature found: *value*.

Explanation: The wire signature for two or more WSDL operations is identical. CICS needs the wire signatures to be different in order to determine which operation is being invoked.

The wire signature is determined by the immediate child elements of the SOAP body tag. If RPC style SOAP messages are used then the name of the WSDL Operation is included in the SOAP message and CICS can therefore determine the operation that is being invoked at runtime. If document style WSDL is used then the operation name is only included in the SOAP message if the WSDL conforms to the 'wrapped' pattern - in which case the first tag within the body of the SOAP envelope is the name of the operation.

If the operation name is not included in the SOAP message then CICS requires that each of the operations in the WSDL have unique signatures. If the request message for an operation is empty then the signature is reported as 'null'. If two or more operations share the same signature then this message is issued. This requirement is also present in the WSi Basic Profile specification which defines the rules to follow if you wish your WSDL to work with most Web services implementations.

System action: The Web services assistant terminates.

User response: Either remove or exclude one of the WSDL operations, or change the WSDL to specify RPC encoding or to conform to the 'wrapped document' style of encoding.

Module: DFHWS2LS

Destination: SYSPRINT

DFHPI9535E WSDL operation *operation* has an operation signature greater than *value* characters long and therefore is not supported by CICS.

Explanation: Operation *operation* in the WSDL document has a wire signature that is longer than *value* characters. DFHWS2LS can not process this operation. The wire signature is used to determine the operation that is being invoked based on the sequence of XML child elements found within the SOAP:body element at runtime. If there are a large number of such child elements or the child elements have unusually long names then the generated signature may be too large.

System action: The Web services assistant continues processing.

User response: Consider changing the WSDL document or XML schema to avoid this problem. For example, you could

- Change the problematic XML construct for a different one that is supported. For example, the xsd:any construct is supported by both DFHWS2LS and DFHSC2LS and can be used as a replacement for most other constructs at mapping level 2.1 onwards. A change of this type can usually be made without breaking interoperability with partner processes that are implemented using the original XML schema or WSDL document.

If changing/simplifying the XML schema or WSDL is not acceptable then other options exist

- If you are using DFHWS2LS, then at runtime level 2.1 onwards you can use the XML-ONLY parameter to opt-out of the CICS supplied XML transformation service. This results in a WSBind file being generated that tells CICS that the application will work directly with the SOAP Body in the DFHWS-BODY container.
- Other products may exist that support the required XML constructs. For example, IBM's Rational Developer for System Z (RDz) product can generate WSBind files that use a different underlying transformation service and are subject to a different set of restrictions.
- If you are implementing a Web service provider application then you could consider writing your own XML capable SOAP application handler.
- If you are implementing a Web service requester application then you could consider writing an XML capable application that uses the DFHPIRT channel linkable SOAP interface.

Module: DFHWS2LS

Destination: SYSPRINT

DFHPI9536E User Defined Type *type* cannot be found.

Explanation: DFHLS2WS or DFHLS2SC is unable to locate a required user defined type with the C or C++ header file.

System action: The Web services or XML assistant continues processing.

User response: Change the C header file to include the required user defined type.

Module: DFHLS2WS, DFHLS2SC

Destination: SYSPRINT

DFHPI9537W Compiler directive *directive* has been ignored.

Explanation: DFHLS2WS or DFHLS2SC has found a compiler directive within the C or C++ header file. Compiler directives are not supported.

System action: The Web services or XML assistant continues processing.

User response: Consider removing the compiler directive from the header file. If the compiler directive is important to how the compiler processes the structures within the header file then it may be necessary to change those structures in order to ensure that DFHLS2WS or DFHLS2SC interprets them correctly.

Module: DFHLS2WS, DFHLS2SC

Destination: SYSPRINT

DFHPI9538E The required struct entry cannot be found.

Explanation: DFHLS2WS or DFHLS2SC is unable to locate a required structure which is referenced in the C or C++ header file.

System action: The Web services or XML assistant continues processing.

User response: Change the C header file to include the required structure.

Module: DFHLS2WS, DFHLS2SC

Destination: SYSPRINT

DFHPI9539E An invalid character *character* has been found.

Explanation: An invalid character has been found in the C or C++ header file.

System action: The Web services or XML assistant continues processing.

User response: Correct the header file.

Module: DFHLS2WS, DFHLS2SC

Destination: SYSPRINT

DFHPI9540E Unsupported keyword *keyword* has been found.

Explanation: DFHLS2WS or DFHLS2SC has detected a keyword *keyword* that is not currently supported.

System action: The Web services or XML assistant continues processing.

User response: Consider removing the unsupported keyword from the input file.

If you are using DFHLS2WS and the keyword is important to the shape of the language structure in memory then it may be necessary to create a wrapper program. A wrapper program is a program which accepts input in a format that is suitable for use with DFHLS2WS and maps that input to the format needed by the target program. It then issues a LINK to the target program before converting the response back to an output format which is also suitable for use with DFHLS2WS.

Module: DFHLS2WS, DFHLS2SC

Destination: SYSPRINT

DFHPI9541E Fixed point decimal types are not supported.

Explanation: DFHLS2WS or DFHLS2SC has detected an unsupported data type in a C or C++ header file.

System action: The Web services or XML assistant continues processing.

User response: Consider removing the unsupported data type from the input file.

If you are using DFHLS2WS and the data type is important to the shape of the language structure in memory then it may be necessary to create a wrapper program. A wrapper program is a program which accepts input in a format that is suitable for use with DFHLS2WS and maps that input to the format needed by the target program. It then issues a LINK to the target program before converting the response back to an output format which is also suitable for use with DFHLS2WS.

Module: DFHLS2WS, DFHLS2SC

Destination: SYSPRINT

DFHPI9542E Unsupported macro *macro* has been found.

Explanation: DFHLS2WS or DFHLS2SC has found a macro within the C or C++ header file. Macros are not supported.

System action: The Web services or XML assistant continues processing.

User response: Consider removing the unsupported macro from the input file.

If you are using DFHLS2WS and the macro is important to the shape of the language structure in memory then it may be necessary to create a wrapper program. A wrapper program is a program which accepts input in a format that is suitable for use with DFHLS2WS and maps that input to the format needed by the target program. It then issues a LINK to the target program before converting the response back to an output format which is also suitable for use with DFHLS2WS.

Module: DFHLS2WS, DFHLS2SC

Destination: SYSPRINT

DFHPI9543E Constant *constant* is not supported in array dimension.

Explanation: DFHLS2WS or DFHLS2SC has found a constant within an array declaration. This is not supported.

System action: The Web services or XML assistant continues processing.

User response: Consider removing the unsupported constant from the input file.

If you are using DFHLS2WS and the constant is important to the shape of the language structure in memory then it may be necessary to create a wrapper program. A wrapper program is a program which accepts input in a format that is suitable for use with DFHLS2WS and maps that input to the format needed by the target program. It then issues a LINK to the target program before converting the response back to an output format which is also suitable for use with DFHLS2WS.

Module: DFHLS2WS, DFHLS2SC

Destination: SYSPRINT

DFHPI9544W Unsupported keyword *keyword* has been found and ignored.

Explanation: DFHLS2WS or DFHLS2SC has detected a keyword *keyword* that is not currently supported, it has been ignored.

System action: The Web services or XML assistant continues processing.

User response: Consider whether it is acceptable that this keyword has been ignored. If it is acceptable then you can safely ignore this message.

If you are using DFHLS2WS and this restriction is not acceptable then it may be necessary to create a wrapper program. A wrapper program is a program which accepts input in a format that is suitable for use with DFHLS2WS and maps that input to the format needed by the target program. It then issues a LINK to the

target program before converting the response back to an output format which is also suitable for use with DFHLS2WS.

Module: DFHLS2WS, DFHLS2SC

Destination: SYSPRINT

DFHPI9545W Assignment operator detected and ignored.

Explanation: DFHLS2WS or DFHLS2SC has detected and ignored an assignment operator within a C or C++ header file.

System action: The Web services or XML assistant continues processing.

User response: Consider removing the assignment operator from the header file.

Module: DFHLS2WS, DFHLS2SC

Destination: SYSPRINT

DFHPI9546W Initialization operator detected and ignored.

Explanation: DFHLS2WS or DFHLS2SC has detected and ignored an initialization operator within a C or C++ header file.

System action: The Web services or XML assistant continues processing.

User response: Consider removing the initialization operator from the header file.

Module: DFHLS2WS, DFHLS2SC

Destination: SYSPRINT

DFHPI9547E Top level variables are not supported: *value***.**

Explanation: DFHLS2WS or DFHLS2SC has encountered a variable *value* within a C or C++ header file that is not part of a structure or part of a type definition. This is not supported.

System action: The Web services or XML assistant continues processing.

User response: Consider removing the named variable from the header file.

Module: DFHLS2WS, DFHLS2SC

Destination: SYSPRINT

DFHPI9548E Top-level *structure* **structure for C and C++ must be named** *value* **or must be specified using the 'STRUCTURE' parameter.**

Explanation: DFHLS2WS or DFHLS2SC has been unable to locate a requested structure within a C or C++ header file.

System action: The Web services or XML assistant continues processing.

User response: Correct or supply a value for the STRUCTURE input parameter.

Module: DFHLS2WS, DFHLS2SC

Destination: SYSPRINT

DFHPI9549E A type definition has been found with no instance and no label.

Explanation: DFHLS2WS or DFHLS2SC has detected a type definition in the C or C++ header file that is either missing a label or is missing an instance name.

System action: The Web services or XML assistant continues processing.

User response: Correct the header file.

Module: DFHLS2WS, DFHLS2SC

Destination: SYSPRINT

DFHPI9550E Duplicate type name *name* **found.**

Explanation: DFHLS2WS or DFHLS2SC has detected a duplicate type definition in the C or C++ header file.

System action: The Web services or XML assistant continues processing.

User response: Correct the header file.

Module: DFHLS2WS, DFHLS2SC

Destination: SYSPRINT

DFHPI9551E Structure *structure* **cannot be found.**

Explanation: DFHLS2WS or DFHLS2SC has been unable to locate the main structure within the C or C++ header file.

System action: The Web services or XML assistant continues processing.

User response: Correct or supply a value for the STRUCTURE input parameter.

Module: DFHLS2WS, DFHLS2SC

Destination: SYSPRINT

DFHPI9552E Value *value* **is not a valid integer.**

Explanation: DFHLS2WS or DFHLS2SC has encountered a value that should be numeric but does not appear to be a valid integer. The problematic value is *value*.

System action: The Web services or XML assistant continues processing.

User response: Correct the language structure.

Module: DFHLS2WS, DFHLS2SC

Destination: SYSPRINT

DFHPI9553E PICTURE *picture* **is not supported for BINARY or DISPLAY types.**

Explanation: DFHLS2WS or DFHLS2SC has detected a PICTURE clause that it does not currently support for BINARY or DISPLAY data types.

System action: The Web services or XML assistant continues processing.

User response: Consider removing the unsupported PICTURE from the input file.

If you are using DFHLS2WS and the PICTURE is important to the shape of the language structure in memory then it may be necessary to create a wrapper program. A wrapper program is a program which accepts input in a format that is suitable for use with DFHLS2WS and maps that input to the format needed by the target program. It then issues a LINK to the target program before converting the response back to an output format which is also suitable for use with DFHLS2WS.

Module: DFHLS2WS, DFHLS2SC

Destination: SYSPRINT

DFHPI9554E PICTURE *picture* **is not supported.**

Explanation: DFHLS2WS or DFHLS2SC has detected a PICTURE clause that it does not currently support.

System action: The Web services or XML assistant continues processing.

User response: Consider removing the unsupported PICTURE from the input file.

If you are using DFHLS2WS and the PICTURE is important to the shape of the language structure in memory then it may be necessary to create a wrapper program. A wrapper program is a program which accepts input in a format that is suitable for use with DFHLS2WS and maps that input to the format needed by the target program. It then issues a LINK to the target program before converting the response back to an output format which is also suitable for use with DFHLS2WS.

Module: DFHLS2WS, DFHLS2SC

Destination: SYSPRINT

DFHPI9555E Top level structure found within the main structure.

Explanation: DFHLS2WS or DFHLS2SC has detected an error in one of the language structures. 01 level identifiers should not be present within the main language structure.

System action: The Web services or XML assistant continues processing.

User response: Remove the 01 level identifier from within the language structure.

Module: DFHLS2WS, DFHLS2SC

Destination: SYSPRINT

DFHPI9556E An unexpected error occurred whilst writing to file *file***. The problem is:** *value***.**

Explanation: An exception was caught whilst attempting to write to file *file*. The exception included a message to identify the problem which is indicated in *value*.

System action: The Web services or XML assistant continues processing.

User response: Correct the identified problem.

Module: DFHWS2LS, DFHLS2WS, DFHSC2LS, DFHLS2SC

Destination: SYSPRINT

DFHPI9557E ERRORS and WARNINGS have been generated processing file *file***.**

Explanation: One or more error messages and one or more warning messages have been issued by the Web services or XML assistant.

System action: The web services or XML assistant fails with return code 12.

User response: Resolve the previously issued error messages and consider addressing the warning messages.

Module: DFHWS2LS, DFHLS2WS, DFHSC2LS, DFHLS2SC

Destination: SYSPRINT

DFHPI9558E ERRORS have been generated processing file *file***.**

Explanation: One or more error messages have been issued by the Web services or XML assistant.

System action: The web services or XML assistant fails with return code 12.

User response: Resolve the previously issued error messages.

Module: DFHWS2LS, DFHLS2WS, DFHSC2LS, DFHLS2SC

Destination: SYSPRINT

DFHPI9559W Illegal character *character* has been found at the start of a name and replaced with X.

Explanation: DFHLS2WS or DFHLS2SC has found a character at the start of a field name in the language structure that is not valid in XML. It has been replaced with a substitute character.

System action: The Web services or XML assistant continues processing.

User response: Consider whether the new name is appropriate to expose in the XML. If you are unhappy with the name chosen you can either change the language structure and re-run the job, or change the XML and run DFHWS2LS or DFHSC2LS against it.

Module: DFHLS2WS, DFHLS2SC

Destination: SYSPRINT

DFHPI9560W Illegal character *character* has been found in a name and replaced with X.

Explanation: DFHLS2WS or DFHLS2SC has found a character in a field name in the language structure that is not valid in XML. It has been replaced with a substitute character.

System action: The Web services or XML assistant continues processing.

User response: Consider whether the new name is appropriate to expose in the XML. If you are unhappy with the name chosen you can either change the language structure and re-run the job, or change the XML and run DFHWS2LS ot DFHSC2LS against it.

Module: DFHLS2WS, DFHLS2SC

Destination: SYSPRINT

DFHPI9561I Identifier *identifier* has generated a name-clash for operation *operation*. Subsequent declarations have been renamed to ensure their uniqueness.

Explanation: DFHLS2WS or DFHLS2SC has detected a field name in the language structure which will clash with another name when converted to XML. The name has been changed to ensure that this does not happen.

System action: The Web services or XML assistant continues processing.

User response: Consider whether the new name is appropriate to expose in the XML. If you are unhappy with the name chosen you can either change the language structure and re-run the job, or change the XML and run DFHWS2LS or DFHSC2LS against it.

Module: DFHLS2WS, DFHLS2SC

Destination: SYSPRINT

DFHPI9562E Parameter PGMINT is specified with value COMMAREA but there is too much data required for a COMMAREA.

Explanation: DFHLS2WS has been asked to process language structures for a commarea based PROGRAM. The language structures processed require more than 32K of data and therefore are too large for use with a commarea.

System action: The Web services assistant continues processing.

User response: Consider changing the PGMINT input parameter to CHANNEL rather than COMMAREA.

Module: DFHLS2WS

Destination: SYSPRINT

DFHPI9563E Unsupported PL/I source code detected in line *line*.

Explanation: DFHLS2WS or DFHLS2SC has spotted a line of PL/I based code that it does not support at line *line*.

System action: The Web services or XML assistant continues processing.

User response: Consider removing the unsupported line from the input file.

If you are using DFHLS2WS and the line is important to the shape of the language structure in memory then it may be necessary to create a wrapper program. A wrapper program is a program which accepts input in a format that is suitable for use with DFHLS2WS and maps that input to the format needed by the target program. It then issues a LINK to the target program before converting the response back to an output format which is also suitable for use with DFHLS2WS.

Module: DFHLS2WS, DFHLS2SC

Destination: SYSPRINT

DFHPI9564W A terminating ; is missing, it is assumed to be at the end of the file.

Explanation: The termination character for a language structure is missing. It is assumed that the end of file indicates the end of the language structure.

System action: The Web services or XML assistant continues processing.

User response: Correct the language structure.

Module: DFHLS2WS, DFHLS2SC

Destination: SYSPRINT

DFHPI9565E ALIGNED and UNALIGNED keywords are not supported for an entire structure.

Explanation: An ALIGNED keyword or an UNALIGNED keyword has been applied to a structure in a PL/I language structure. This is not supported in DFHLS2WS or DFHLS2SC.

System action: The Web services or XML assistant continues processing.

User response: Change each entry within the language structure to specify ALIGNED or UNALIGNED individually.

Module: DFHLS2WS, DFHLS2SC

Destination: SYSPRINT

DFHPI9566E The FIXED and FLOAT attributes are both missing: *value***.**

Explanation: DFHLS2WS or DFHLS2SC has determined that a DECIMAL or BINARY field in a PL/I language structure does not declare whether it is of type FIXED or type FLOAT. DFHLS2WS and DFHLS2SC require that the language structure explicitly states the data type.

System action: The Web services or XML assistant continues processing.

User response: Change the field to explicitly specify either FIXED or FLOAT. FLOAT data types are only supported if a mapping level of at least 1.2 is specified.

Module: DFHLS2WS, DFHLS2SC

Destination: SYSPRINT

DFHPI9567E Too many digits have been specified for a packed decimal field *value***.**

Explanation: DFHLS2WS or DFHLS2SC has spotted an error in a PL/I language structure. A packed decimal field has specified a greater number of digits than can be supported for that language.

System action: The Web services or XML assistant continues processing.

User response: Correct the language structure.

Module: DFHLS2WS, DFHLS2SC

Destination: SYSPRINT

DFHPI9568E The UNSIGNED attribute is not supported unless PLI-ENTERPRISE is specified: *value***.**

Explanation: DFHLS2WS or DFHLS2SC has spotted an error in a PL/I language structure. The UNSIGNED keyword has been used even though it is not available before Enterprise level PL/I.

System action: The Web services or XML assistant continues processing.

User response: Either correct the language structure or change the LANG input parameter to specify PLI-ENTERPRISE.

Module: DFHLS2WS, DFHLS2SC

Destination: SYSPRINT

DFHPI9569E Unsupported PL/I source code detected after line *line***.**

Explanation: DFHLS2WS or DFHLS2SC has spotted a line of PL/I based code that it does not support after line *line*.

System action: The Web services or XML assistant continues processing.

User response: Consider removing the unsupported line from the input file.

If you are using DFHLS2WS and the line is important to the shape of the language structure in memory then it may be necessary to create a wrapper program. A wrapper program is a program which accepts input in a format that is suitable for use with DFHLS2WS and maps that input to the format needed by the target program. It then issues a LINK to the target program before converting the response back to an output format which is also suitable for use with DFHLS2WS.

Module: DFHLS2WS, DFHLS2SC

Destination: SYSPRINT

DFHPI9570E FIXED BINARY types with length greater than 31 are not supported unless PLI-ENTERPRISE is specified: *value***.**

Explanation: DFHLS2WS or DFHLS2SC has detected an error in a PL/I language structure. A FIXED BINARY length greater than 31 has been specified. This is not allowed for versions of PL/I prior to Enterprise PL/I.

System action: The Web services or XML assistant continues processing.

User response: Either correct the language structure or change the LANG input parameter to specify PLI-ENTERPRISE.

Module: DFHLS2WS, DFHLS2SC

Destination: SYSPRINT

DFHPI9571W ORDINAL references are always treated as SIGNED FIXED BINARY (7) data types. If this is incorrect then please replace the ordinal reference with an equivalent FIXED BINARY variable: *value***.**

Explanation: DFHLS2WS or DFHLS2SC has detected an Ordinal data type in a PL/I language structure. These are always treated as though they are SIGNED FIXED BINARY (7) data types.

System action: The Web services or XML assistant continues processing.

User response: Consider whether or not this assumption is appropriate. If it is not then you should either change the language structure to replace the ordinal data type with an equivalent data type.

If you are using DFHLS2WS then you could write a wrapper program. A wrapper program is a program which accepts input in a format that is suitable for use with DFHLS2WS and maps that input to the format needed by the target program. It then issues a LINK to the target program before converting the response back to an output format which is also suitable for use with DFHLS2WS.

Module: DFHLS2WS, DFHLS2SC

Destination: SYSPRINT

DFHPI9572E ORDINAL types are only supported if PLI-ENTERPRISE is specified *value***.**

Explanation: DFHLS2WS or DFHLS2SC has detected an error in a PL/I language structure. An ordinal data type has been specified. This is not allowed for versions of PL/I prior to Enterprise PL/I.

System action: The Web services or XML assistant continues processing.

User response: Either correct the language structure or change the LANG input parameter to specify PLI-ENTERPRISE.

Module: DFHLS2WS, DFHLS2SC

Destination: SYSPRINT

DFHPI9573E BIT fields are only supported if they are in multiples of 8 *value***.**

Explanation: DFHLS2WS or DFHLS2SC has detected a BIT field in a PL/I language structure which specifies a number of bits that are not exactly divisible by 8. This is not supported by DFHLS2WS.

System action: The Web services or XML assistant continues processing.

User response: Consider changing the language structure to remove this field or to change its length to a multiple of 8.

If you are using DFHLS2WS then consider writing a wrapper program. A wrapper program is a program which accepts input in a format that is suitable for use with DFHLS2WS and maps that input to the format needed by the target program. It then issues a LINK to the target program before converting the response back to an output format which is also suitable for use with DFHLS2WS.

Module: DFHLS2WS, DFHLS2SC

Destination: SYSPRINT

DFHPI9574E Lengths less that one are not supported for array data types *dataType***.**

Explanation: DFHLS2WS or DFHLS2SC has detected a problem in a language structure. A data type specifies an array with a length less than one byte or character.

System action: The Web services or XML assistant continues processing.

User response: Correct the problem.

Module: DFHLS2WS, DFHLS2SC

Destination: SYSPRINT

DFHPI9575E The length of a PICTURE cannot be found: *value***.**

Explanation: DFHLS2WS or DFHLS2SC has detected a problem in a PL/I language structure. The length of a PICTURE clause can not be determined.

System action: The Web services or XML assistant continues processing.

User response: Correct the problem.

Module: DFHLS2WS, DFHLS2SC

Destination: SYSPRINT

DFHPI9576E FIXED BINARY data types with a scaling factor of the form (p,q) with q not equal to 0 are not supported: *value***.**

Explanation: DFHLS2WS or DFHLS2SC has detected an unsupported data type in a PL/I language structure. FIXED BINARY scaling factors are not supported.

System action: The Web services or XML assistant continues processing.

User response: Consider removing the unsupported data type from the input file.

If you are using DFHLS2WS and the data type is important to the shape of the language structure in memory then it may be necessary to create a wrapper program. A wrapper program is a program which accepts input in a format that is suitable for use with DFHLS2WS and maps that input to the format needed by the target program. It then issues a LINK to the target program before converting the response back to an output format which is also suitable for use with DFHLS2WS.

Module: DFHLS2WS, DFHLS2SC

Destination: SYSPRINT

DFHPI9577E Precision factor *factor* is out of supported range *value*.

Explanation: DFHLS2WS or DFHLS2SC has detected an error in a PL/I language structure. A precision factor is either too large or too small to be supported.

System action: The Web services or XML assistant continues processing.

User response: Correct the problem.

Module: DFHLS2WS, DFHLS2SC

Destination: SYSPRINT

DFHPI9578E FIXED DECIMAL data types with a scaling factor of the form (p,q) with q greater than p are not supported: *value*.

Explanation: DFHLS2WS or DFHLS2SC has detected an unsupported data type in a PL/I language structure. CICS is unable to support scaling factors in the form (p,q) where q is greater than p.

System action: The Web services or XML assistant continues processing.

User response: Consider removing the unsupported data type from the input file.

If you are using DFHLS2WS and the data type is important to the shape of the language structure in memory then it may be necessary to create a wrapper program. A wrapper program is a program which accepts input in a format that is suitable for use with DFHLS2WS and maps that input to the format needed by the target program. It then issues a LINK to the target program before converting the response back to an output format which is also suitable for use with DFHLS2WS.

Module: DFHLS2WS, DFHLS2SC

Destination: SYSPRINT

DFHPI9579E FIXED DECIMAL data types with a scaling factor of the form (p,q) with q less than 0 are not supported: *value*.

Explanation: DFHLS2WS or DFHLS2SC has detected an unsupported data type in a PL/I language structure. CICS is unable to support scaling factors in the form (p,q) where q is less than 0.

System action: The Web services or XML assistant continues processing.

User response: Consider removing the unsupported data type from the input file.

If you are using DFHLS2WS and the data type is important to the shape of the language structure in memory then it may be necessary to create a wrapper program. A wrapper program is a program which accepts input in a format that is suitable for use with DFHLS2WS and maps that input to the format needed by the target program. It then issues a LINK to the target program before converting the response back to an output format which is also suitable for use with DFHLS2WS.

Module: DFHLS2WS, DFHLS2SC

Destination: SYSPRINT

DFHPI9580I PDS member *member* has been replaced.

Explanation: The Web services or XML assistant has replaced existing PDS member *member*.

System action: The Web services or XML assistant continues processing.

User response: No user action is required. You may safely ignore this message.

Module: DFHWS2LS, DFHLS2WS, DFHSC2LS, DFHLS2SC

Destination: SYSPRINT

DFHPI9581E An unexpected exception occurred when writing to the PDS.

Explanation: The Web services or XML assistant has been unable to write to the PDS library. This may be because another process has a lock on the PDS.

System action: The Web services or XML assistant continues processing.

User response: Ensure that all other processes which have locks on the PDS release those locks.

Module: DFHWS2LS, DFHLS2WS, DFHSC2LS, DFHLS2SC

Destination: SYSPRINT

DFHPI9582I File *file* has been replaced.

Explanation: The Web services or XML assistant has replaced existing file *file*.

System action: The Web services or XML assistant continues processing.

User response: No user action is required. You may safely ignore this message.

Module: DFHWS2LS, DFHLS2WS, DFHSC2LS, DFHLS2SC

Destination: SYSPRINT

DFHPI9583E The supplied WSDL contains an element with different minOccurs and maxOccurs values. This is only supported when PGMINT is set to CHANNEL or when 'INLINE-MAXOCCURS-LIMIT' is set to a higher value than maxOccurs.

Explanation: DFHWS2LS has detected an XML element which will occur in a SOAP message an unknown number of times. This is supported at mapping level 2.1 if the INLINE-MAXOCCURS-LIMIT parameter is set to a value greater than the maxOccurs value.

If maxOccurs is set to 'unbounded', or if the mapping level is less than 2.1, or if INLINE-MAXOCCURS-LIMIT is less than maxOccurs then DFHWS2LS will cause the runtime data to be stored in a separate container. This in turn requires the use of PGMINT=CHANNEL.

System action: The Web services assistant continues processing.

User response: Consider changing the value of INLINE-MAXOCCURS-LIMIT.

If that is not an appropriate action then change the value of the PGMINT input parameter to CHANNEL.

Module: DFHWS2LS

Destination: SYSPRINT

DFHPI9584E The WSDL file contains at least one request message but the REQMEM parameter has not been set.

Explanation: DFHWS2LS needs to generate one or more language structures for request messages but the REQMEM input parameter has not been set.

System action: The Web services assistant continues processing.

User response: Specify a value for the REQMEM input parameter.

Module: DFHWS2LS

Destination: SYSPRINT

DFHPI9585E The WSDL file contains at least one response message but the RESPMEM parameter has not been set.

Explanation: DFHWS2LS needs to generate one or more language structures for response messages but the RESPMEM input parameter has not been set.

System action: The Web services assistant continues processing.

User response: Specify a value for the RESPMEM input parameter.

Module: DFHWS2LS

Destination: SYSPRINT

DFHPI9586W A reserved word *word* has been detected in the input document, it has been changed to *value*.

Explanation: An element name has been detected in the WSDL or XML schema document that is not valid as a keyword in the target programming language. It has been renamed as indicated.

System action: The Web services or XML assistant continues processing.

User response: You may safely ignore this message.

Module: DFHWS2LS, DFHSC2LS

Destination: SYSPRINT

DFHPI9587I Program *program* has completed SUCCESSFULLY.

Explanation: The Web services or XML assistant has completed processing. No error or warning messages have been issued.

System action: The Web services or XML assistant ends with return code 0.

User response: You may safely ignore this message.

Module: DFHWS2LS, DFHLS2WS, DFHSC2LS, DFHLS2SC

Destination: SYSPRINT

DFHPI9588E WSDL binding *binding* has no operation elements in the WSDL.

Explanation: DFHWS2LS has not found any WSDL operations associated with WSDL binding *binding*.

System action: The Web services assistant continues processing.

User response: Either correct the WSDL document or supply a different value for the BINDING input parameter.

Module: DFHWS2LS

Destination: SYSPRINT

DFHPI9589E The supplied WSDL requires too much data for a CICS Commarea. The PGMINT parameter must be set to CHANNEL.

Explanation: DFHWS2LS has been asked to generate language structures for a commarea based PROGRAM. The language structures generated require more than 32K of data and therefore are too large for use with a commarea.

System action: The Web services assistant continues processing.

User response: Consider changing the PGMINT input

parameter to CHANNEL rather than COMMAREA.

Module: DFHWS2LS

Destination: SYSPRINT

DFHPI9590E A style attribute has not been specified for WSDL operation *operation*.

Explanation: DFHWS2LS has detected an error in the WSDL document. The binding for WSDL operation *operation* must have a 'style' specified. The style may be either 'rpc' or 'document'.

System action: The Web services assistant continues processing.

User response: Correct the WSDL.

Module: DFHWS2LS

Destination: SYSPRINT

DFHPI9591E No input message has been found for WSDL operation *operation*.

Explanation: DFHWS2LS has encountered a problem with the WSDL document. Operation *operation* is missing a WSDL input message. DFHWS2LS does not support response only Web services.

System action: The Web services assistant continues processing.

User response: Either correct the WSDL document or specify a different BINDING input parameter.

Module: DFHWS2LS

Destination: SYSPRINT

DFHPI9592W An expected soapAction attribute is missing for WSDL operation *operation*.

Explanation: DFHWS2LS has detected an error in the WSDL document. The WSDL binding is missing a soapAction attribute for operation *operation*. In WSDL 2.0 the soapAction is specified using an attribute called 'action'.

System action: The Web services assistant continues processing.

User response: Consider whether the absence of the soapAction is a problem. If your application does not require the soapAction attribute then you can safely ignore this message.

Module: DFHWS2LS

Destination: SYSPRINT

DFHPI9593W An unexpected soapAction attribute has been found for WSDL operation *operation*. This can only be used with SOAP version 1.1.

Explanation: DFHWS2LS has detected an error in the WSDL document. The WSDL binding specifies a soapAction attribute for use with SOAP 1.2.

System action: The Web services assistant continues processing.

User response: Consider removing the soapAction attribute or changing the WSDL to indicate the use of SOAP 1.1.

Module: DFHWS2LS

Destination: SYSPRINT

DFHPI9594E An unexpected soapAction attribute has been found for WSDL operation *operation*. This can only be used with SOAP version 1.1.

Explanation: DFHWS2LS has detected an error in the WSDL document. The WSDL binding specifies a soapAction attribute, a concept that only applies to SOAP version 1.1. However, the WSDL binding requests the use of SOAP version 1.2.

System action: The Web services assistant continues processing.

User response: Remove the soapAction attribute from the WSDL document.

Module: DFHWS2LS

Destination: SYSPRINT

DFHPI9595E The WSDL binding contains a mixture of rpc and document style attributes. This is not supported.

Explanation: DFHWS2LS has encountered a problem processing the WSDL document. The WSDL binding specifies a mixture of 'rpc' style messages and 'document' style messages. DFHWS2LS does not support mixed styles within a binding.

System action: The Web services assistant continues processing.

User response: Consider changing the WSDL document or XML schema to avoid this problem. For example, you could

- Change the problematic XML construct for a different one that is supported. For example, the xsd:any construct is supported by both DFHWS2LS and DFHSC2LS and can be used as a replacement for most other constructs at mapping level 2.1 onwards. A change of this type can usually be made without

breaking interoperability with partner processes that are implemented using the original XML schema or WSDL document.

If changing/simplifying the XML schema or WSDL is not acceptable then other options exist

- If you are using DFHWS2LS, then at runtime level 2.1 onwards you can use the XML-ONLY parameter to opt-out of the CICS supplied XML transformation service. This results in a WSBind file being generated that tells CICS that the application will work directly with the SOAP Body in the DFHWS-BODY container.
- Other products may exist that support the required XML constructs. For example, IBM's Rational Developer for System Z (RDz) product can generate WSBind files that use a different underlying transformation service and are subject to a different set of restrictions.
- If you are implementing a Web service provider application then you could consider writing your own XML capable SOAP application handler.
- If you are implementing a Web service requester application then you could consider writing an XML capable application that uses the DFHPIRT channel linkable SOAP interface.

Module: DFHWS2LS

Destination: SYSPRINT

DFHPI9596E The WSDL Binding for operation *operation* is missing an input message.

Explanation: DFHWS2LS has encountered a problem with the WSDL document. Binding *binding* for operation *operation* is missing a WSDL input binding. DFHWS2LS does not support response only Web services.

System action: The Web services assistant continues processing.

User response: Either correct the WSDL document or specify a different BINDING input parameter.

Module: DFHWS2LS

Destination: SYSPRINT

DFHPI9597E The WSDL file specifies a 'use' attribute value of *value*. Only literal WSDL is supported.

Explanation: DFHWS2LS has encountered a problem with the WSDL document. The WSDL binding specifies a 'use' attribute value of *value*. DFHWS2LS only supports a value of 'literal'.

System action: The Web services assistant continues processing.

User response: Consider changing the WSDL document or XML schema to avoid this problem. For example, you could

- Change the problematic XML construct for a different one that is supported. For example, the xsd:any construct is supported by both DFHWS2LS and DFHSC2LS and can be used as a replacement for most other constructs at mapping level 2.1 onwards. A change of this type can usually be made without breaking interoperability with partner processes that are implemented using the original XML schema or WSDL document.

If changing/simplifying the XML schema or WSDL is not acceptable then other options exist

- If you are using DFHWS2LS, then at runtime level 2.1 onwards you can use the XML-ONLY parameter to opt-out of the CICS supplied XML transformation service. This results in a WSBind file being generated that tells CICS that the application will work directly with the SOAP Body in the DFHWS-BODY container.
- Other products may exist that support the required XML constructs. For example, IBM's Rational Developer for System Z (RDz) product can generate WSBind files that use a different underlying transformation service and are subject to a different set of restrictions.
- If you are implementing a Web service provider application then you could consider writing your own XML capable SOAP application handler.
- If you are implementing a Web service requester application then you could consider writing an XML capable application that uses the DFHPIRT channel linkable SOAP interface.

Module: DFHWS2LS

Destination: SYSPRINT

DFHPI9598E WSDL binding *binding* references more than one transport protocol. Only one protocol is supported.

Explanation: DFHWS2LS has encountered a problem with the WSDL document. The WSDL binding specifies more than one transport protocol. DFHWS2LS only supports one transport protocol per binding.

System action: The Web services assistant continues processing.

User response: Consider changing the WSDL document or XML schema to avoid this problem. For example, you could

- Change the problematic XML construct for a different one that is supported. For example, the xsd:any construct is supported by both DFHWS2LS and DFHSC2LS and can be used as a replacement for most other constructs at mapping level 2.1 onwards. A change of this type can usually be made without

breaking interoperability with partner processes that are implemented using the original XML schema or WSDL document.

If changing/simplifying the XML schema or WSDL is not acceptable then other options exist

- If you are using DFHWS2LS, then at runtime level 2.1 onwards you can use the XML-ONLY parameter to opt-out of the CICS supplied XML transformation service. This results in a WSBind file being generated that tells CICS that the application will work directly with the SOAP Body in the DFHWS-BODY container.
- Other products may exist that support the required XML constructs. For example, IBM's Rational Developer for System Z (RDz) product can generate WSBind files that use a different underlying transformation service and are subject to a different set of restrictions.
- If you are implementing a Web service provider application then you could consider writing your own XML capable SOAP application handler.
- If you are implementing a Web service requester application then you could consider writing an XML capable application that uses the DFHPIRT channel linkable SOAP interface.

Module: DFHWS2LS

Destination: SYSPRINT

DFHPI9599E WSDL binding *binding* is not associated with a transport protocol.

Explanation: DFHWS2LS has encountered a problem with the WSDL document. The WSDL binding specifies no transport protocols. DFHWS2LS requires one transport protocol per binding.

System action: The Web services assistant continues processing.

User response: Consider changing the WSDL document or XML schema to avoid this problem. For example, you could

- Change the problematic XML construct for a different one that is supported. For example, the xsd:any construct is supported by both DFHWS2LS and DFHSC2LS and can be used as a replacement for most other constructs at mapping level 2.1 onwards. A change of this type can usually be made without breaking interoperability with partner processes that are implemented using the original XML schema or WSDL document.

If changing/simplifying the XML schema or WSDL is not acceptable then other options exist

- If you are using DFHWS2LS, then at runtime level 2.1 onwards you can use the XML-ONLY parameter to opt-out of the CICS supplied XML transformation service. This results in a WSBind file being generated that tells CICS that the application will work directly with the SOAP Body in the DFHWS-BODY container.
- Other products may exist that support the required XML constructs. For example, IBM's Rational Developer for System Z (RDz) product can generate WSBind files that use a different underlying transformation service and are subject to a different set of restrictions.
- If you are implementing a Web service provider application then you could consider writing your own XML capable SOAP application handler.
- If you are implementing a Web service requester application then you could consider writing an XML capable application that uses the DFHPIRT channel linkable SOAP interface.

Module: DFHWS2LS

Destination: SYSPRINT

DFHPI9600E The WSDL file contains multiple binding elements. The BINDING parameter must be set to specify which one to use.

Explanation: The WSDL document contains more than one binding element. The BINDING input parameter was not set therefore DFHWS2LS cannot determine which WSDL binding to process.

System action: The Web services assistant continues processing.

User response: Specify a value for the BINDING input parameter.

Module: DFHWS2LS

Destination: SYSPRINT

DFHPI9601E Binding element *element* cannot be found in the WSDL file. Only one of the following values may be specified: *value*.

Explanation: The value of the BINDING input parameter does not identify a binding element in the WSDL document.

System action: The Web services assistant continues processing.

User response: Correct the value of the BINDING input parameter.

Module: DFHWS2LS

Destination: SYSPRINT

DFHPI9602E WSDL binding *binding* is not a SOAP binding.

Explanation: DFHWS2LS has detected that the WSDL binding does not indicate the use of SOAP. DFHWS2LS only supports Web services that use SOAP.

System action: The Web services assistant continues processing.

User response: Consider changing the WSDL document or XML schema to avoid this problem. For example, you could

- Change the problematic XML construct for a different one that is supported. For example, the xsd:any construct is supported by both DFHWS2LS and DFHSC2LS and can be used as a replacement for most other constructs at mapping level 2.1 onwards. A change of this type can usually be made without breaking interoperability with partner processes that are implemented using the original XML schema or WSDL document.

If changing/simplifying the XML schema or WSDL is not acceptable then other options exist

- If you are using DFHWS2LS, then at runtime level 2.1 onwards you can use the XML-ONLY parameter to opt-out of the CICS supplied XML transformation service. This results in a WSBind file being generated that tells CICS that the application will work directly with the SOAP Body in the DFHWS-BODY container.
- Other products may exist that support the required XML constructs. For example, IBM's Rational Developer for System Z (RDz) product can generate WSBind files that use a different underlying transformation service and are subject to a different set of restrictions.
- If you are implementing a Web service provider application then you could consider writing your own XML capable SOAP application handler.
- If you are implementing a Web service requester application then you could consider writing an XML capable application that uses the DFHPIRT channel linkable SOAP interface.

Module: DFHWS2LS

Destination: SYSPRINT

DFHPI9603E Multiple WSDL service elements exist for a single binding element. Only one is supported unless the 'WSDL-SERVICE' parameter is set.

Explanation: DFHWS2LS has encountered a problem processing the WSDL document. The WSDL specifies more than one WSDL service element for use with the WSDL binding. DFHWS2LS only supports a single WSDL service per binding.

System action: The Web services assistant continues processing.

User response: Specify the specific WSDL service element to be used. Do this by setting an appropriate value for the WSDL-SERVICE parameter.

Module: DFHWS2LS

Destination: SYSPRINT

DFHPI9604E File *file* does not contain valid XML.

Explanation: The WSDL or schema document does not appear to contain XML. It may have been corrupted in transit or the wrong file may have been specified.

System action: The Web services or XML assistant continues processing.

User response: Ensure that the value of the WSDL or SCHEMA input parameter identifies the correct file. Ensure that this file has been stored in the correct codepage.

Module: DFHWS2LS, DFHSC2LS

Destination: SYSPRINT

DFHPI9605E The value of the XML encoding tag must match that of the underlying file system. For example, the value UTF-8 may be appropriate.

Explanation: The XML encoding pseudo-attribute in the prolog of the WSDL or XML schema document appears to be incorrect. The value of this attribute must match the encoding in which the WSDL document is stored in the file system.

System action: The Web services or XML assistant continues processing.

User response: Either correct or remove the encoding attribute. It is likely that the correct value should be UTF-8.

Module: DFHWS2LS, DFHSC2LS

Destination: SYSPRINT

DFHPI9606E The value of the XML encoding tag must match that of the underlying file system. For example, the value EBCDIC-CP-US may be appropriate.

Explanation: The XML encoding pseudo-attribute in the prolog of the WSDL or XML schema document appears to be incorrect. The value of this attribute must match the encoding in which the WSDL document is stored in the file system.

System action: The Web services or XML assistant continues processing.

User response: Either correct or remove the encoding attribute. It is likely that the correct value should be EBCDIC-CP-US.

Module: DFHWS2LS, DFHSC2LS

Destination: SYSPRINT

DFHPI9607E An unexpected error occurred whilst processing WSDL operation *operation***. The problem is:** *value***.**

Explanation: DFHWS2LS or DFHSC2LS has encountered a problem whilst processing the WSDL or XML schema document. An exception has been caught which includes a message details of which are available in *value*.

System action: The Web services or XML assistant continues processing.

User response: Correct the identified problem.

Module: DFHWS2LS, DFHSC2LS

Destination: SYSPRINT

DFHPI9608W WARNINGS have been generated processing file *file***.**

Explanation: The Web services or XML assistant has completed and has issued one or more warning messages.

System action: The Web services or XML assistant ends with return code 4.

User response: Read the previously issued warning messages and decide on what if any actions must be taken.

Module: DFHWS2LS, DFHLS2WS, DFHSC2LS, DFHLS2SC

Destination: SYSPRINT

DFHPI9609I Parameter *parameter* **has value** *value***.**

Explanation: The value of parameter *parameter* is *value*.

System action: The Web services or XML assistant continues processing.

User response: You may safely ignore this message.

Module: DFHWS2LS, DFHLS2WS, DFHSC2LS, DFHLS2SC

Destination: SYSPRINT

DFHPI9610W Platform *platform* **is not a supported platform for this API.**

Explanation: The Web services or XML assistant has detected that it is executing on a platform that is not currently supported. If you experience any problems whilst executing the Web services assistant on this platform you may receive a reduced level of support from IBM.

System action: The Web services assistant continues processing.

User response: Consider hosting the Web services or XML assistant on a platform that is supported such as z/OS.

Module: DFHWS2LS, DFHLS2WS, DFHSC2LS, DFHLS2SC

Destination: SYSPRINT

DFHPI9611W All content after the first ';' for line *line* **is ignored.**

Explanation: DFHLS2WS or DFHLS2SC has spotted a line termination character part way through what appears to be a line of PL/I code. The rest of that line is not processed.

System action: The Web services or XML assistant continues processing.

User response: Consider whether it is correct to ignore the end of the line. If there is significant data still to be processed then edit the input file in order to supply the data in a format that DFHLS2WS or DFHLS2SC can understand.

Module: DFHLS2WS, DFHLS2SC

Destination: SYSPRINT

DFHPI9612E Provider mode Web services with more than one operation must specify 'PGMINT=CHANNEL'.

Explanation: DFHWS2LS has determined that there is more than one operation associated with the binding in the WSDL document. If there is more than one operation supported by a provider mode WEBSERVICE then the CICS application which implements the Web service will have to determine the operation invoked using the contents of the DFHWS-OPERATION container.

This container is only available if the CICS application is linked to with a channel rather than a commarea.

System action: The Web services assistant continues processing.

User response: Consider changing the PGMINT input parameter to CHANNEL rather than COMMAREA.

Module: DFHWS2LS

Destination: SYSPRINT

DFHPI9613E Mapping level *level* **is not recognized.**

Explanation: An invalid value has been specified for the MAPPING-LEVEL parameter.

System action: The Web services or XML assistant continues processing.

User response: Correct the value of the MAPPING-LEVEL parameter.

Module: DFHWS2LS, DFHLS2WS, DFHSC2LS, DFHLS2SC

Destination: SYSPRINT

DFHPI9614I Mapping level *old* has been requested. The most current mapping level available is *new*.

Explanation: An old mapping level has been requested. More recent mapping levels have enhanced support for XML and language structures that may not be available at the mapping level requested.

System action: The Web services or XML assistant continues processing.

User response: Consider switching to the most current mapping level.

Module: DFHWS2LS, DFHLS2WS, DFHSC2LS, DFHLS2SC

Destination: SYSPRINT

DFHPI9615E The version of Java in use is *current*. The minimum version of Java required is *required*.

Explanation: The Web services or XML assistants require a more recent version of Java in order to execute.

System action: The Web services or XML assistant continues processing.

User response: Ensure you have the correct minimum version of Java installed. The 'JAVADIR' option of the JCL procedure used to launch the Web services assistant may be used to specify a version of Java other than the default.

Module: DFHWS2LS, DFHLS2WS, DFHSC2LS, DFHLS2SC

Destination: SYSPRINT

DFHPI9616W National characters in COBOL are assumed to be DBCS characters *line*.

Explanation: A language structure processed by DFHLS2WS or DFHLS2SC contains fields which are declared to contain National characters. National characters are only partially supported. DFHLS2WS and DFHLS2SC assume that all fields defined to contain National values do so using DBCS.

System action: The Web services or XML assistant continues processing.

User response: Consider whether you intend these fields to contain pure DBCS data. If this is expected then you can safely ignore this message. If you intend the field to contain UTF-16 data then you cannot make use of the Web services or XML assistants to expose your application as a Web service. You could instead consider writing your own XML capable SOAP 'apphandler'.

Module: DFHLS2WS, DFHLS2SC

Destination: SYSPRINT

DFHPI9617E The supplied WSDL contains an element with unknown length content which should be stored in a separate CONTAINER. This is only supported when PGMINT is set to CHANNEL.

Explanation: DFHWS2LS has detected a schema element with content that must be mapped to a container. This is only supported if the PGMINT input parameter is set to CHANNEL.

System action: The Web services assistant continues processing.

User response: Change the value of the PGMINT input parameter to CHANNEL.

Module: DFHWS2LS

Destination: SYSPRINT

DFHPI9618E The *keyword* keyword has been specified. This requires the use of LANG=PLI-ENTERPRISE.

Explanation: DFHLS2WS or DFHLS2SC has detected a PL/I data type which is invalid in versions of PL/I prior to Enterprise PL/I. The LANG input parameter was set to PLI-OTHER.

System action: The Web services or XML assistant continues processing.

User response: Change the value of the LANG input parameter to PLI-ENTERPRISE.

Module: DFHLS2WS, DFHLS2SC

Destination: SYSPRINT

DFHPI9619E Parameter *parameter* has been specified. It is not supported at mapping level *level*.

Explanation: A parameter has been specified that is not supported at the requested mapping level.

System action: The Web services or XML assistant continues processing.

User response: Either change the mapping level to one where the parameter is supported, or remove the parameter.

Module: DFHWS2LS, DFHLS2WS, DFHSC2LS, DFHLS2SC

Destination: SYSPRINT

DFHPI9620E CCSID *CCSID* **is not recognized.**

Explanation: The value of the CCSID parameter is not recognized as a valid CCSID. The Web services or XML assistant attempts to determine the codepage name associated with the CCSID by pre-pending 'Cp' to the front of the CCSID. If the resultant codepage name is not supported by Java then this message will be issued.

System action: The Web services or XML assistant continues processing.

User response: Change the value of the CCSID parameter to one supported by Java.

Module: DFHWS2LS, DFHLS2WS, DFHSC2LS, DFHLS2SC

Destination: SYSPRINT

DFHPI9621W CCSID *CCSID* **is not recognized as an EBCDIC CCSID. Use of this CCSID may cause problems when the Web service is executed.**

Explanation: The value of the CCSID parameter is not recognized as one of the family of EBCDIC code pages. The CICS XML transformation service only supports EBCDIC code pages.

Use of the requested CCSID may lead to incorrect behavior in CICS and in some cases may result in internal error messages being issued by the Web services or XML assistant.

System action: The Web services or XML assistant continues processing.

User response: Consider changing the value of the CCSID parameter.

Module: DFHWS2LS, DFHLS2WS, DFHSC2LS, DFHLS2SC

Destination: SYSPRINT

DFHPI9622E Invalid value specified for the *parameter* **parameter. The length specified must be a positive integer between** *min* **and** *max***.**

Explanation: An invalid value has been specified for a parameter. The value must be a number between the specified minimum and maximum values.

System action: The Web services or XML assistant continues processing.

User response: Correct the value of the parameter.

Module: DFHWS2LS, DFHLS2WS, DFHSC2LS, DFHLS2SC

Destination: SYSPRINT

DFHPI9623E Invalid value specified for the CHAR-VARYING parameter. Valid values are: NULL, NO or YES.

Explanation: An invalid value has been specified for the CHAR-VARYING parameter.

System action: The Web services or XML assistant continues processing.

User response: Correct the value of the CHAR-VARYING parameter.

Module: DFHWS2LS, DFHSC2LS

Destination: SYSPRINT

DFHPI9624E Invalid value specified for the FLOAT parameter. Valid values are IEEE, HEX or HEXADEC.

Explanation: An invalid value has been specified for the FLOAT parameter.

System action: The Web services or XML assistant continues processing.

User response: Correct the value of the FLOAT parameter.

Module: DFHWS2LS, DFHLS2WS, DFHSC2LS, DFHLS2SC

Destination: SYSPRINT

DFHPI9625E Invalid value specified for the CHAR-VARYING parameter. Valid values are: NULL, NO, COLLAPSE or BINARY.

Explanation: An invalid value has been specified for the CHAR-VARYING parameter.

System action: The Web services or XML assistant continues processing.

User response: Correct the value of the CHAR-VARYING parameter.

Module: DFHLS2WS, DFHLS2SC

Destination: SYSPRINT

DFHPI9626W Parameter *parameter* **has been specified but is not valid when parameter** *parameter2* **is set. The parameter is ignored.**

Explanation: Parameter *parameter* has been ignored because parameter *parameter2* is set. For example, a CHAR-VARYING value is not allowed if the value of the LANG parameter is PLI-ENTERPRISE.

System action: The Web services or XML assistant continues processing.

User response: Consider removing the unexpected parameter.

Module: DFHWS2LS, DFHLS2WS, DFHSC2LS, DFHLS2SC

Destination: SYSPRINT

DFHPI9627E Minimum runtime level *level* is not recognized.

Explanation: The value of the MINIMUM-RUNTIME-LEVEL parameter is invalid.

System action: The Web services or XML assistant continues processing.

User response: Correct the value of the MINIMUM-RUNTIME-LEVEL parameter.

Module: DFHWS2LS, DFHLS2WS, DFHSC2LS, DFHLS2SC

Destination: SYSPRINT

DFHPI9628E Parameter *parameter* has been specified but it is not compatible with the specified minimum runtime level.

Explanation: Parameter *parameter* is not allowed to be used at the specified minimum runtime level.

System action: The Web services or XML assistant continues processing.

User response: Either remove the unexpected parameter or specify a different value for the MINIMUM-RUNTIME-LEVEL parameter.

Module: DFHWS2LS, DFHLS2WS, DFHSC2LS, DFHLS2SC

Destination: SYSPRINT

DFHPI9629I The minimum runtime level required for this Web service is *level*.

Explanation: The Web service or XML binding file created by the Web services or XML assistant requires a particular minimum level of runtime capability from CICS. This minimum level of capability is called the 'minimum runtime level'. Any attempt to install the binding file into a version of CICS that does not support the *level* runtime level will result in error messages being issued.

System action: The Web services or XML assistant continues processing.

User response: No action is required.

Module: DFHWS2LS, DFHLS2WS, DFHSC2LS, DFHLS2SC

Destination: SYSPRINT

DFHPI9630W The minimum runtime level required for this Web service is greater than the mapping level due to the use of the *parameter* parameter.

Explanation: The Web service or XML binding file created by the Web services or XML assistant requires a particular minimum level of runtime capability from CICS. This level of runtime capability is higher than might be assumed based on the value of the MAPPING-LEVEL parameter. For example, the MAPPING-LEVEL may be set to 1.0 but the required runtime level may be 1.2.

The reason for this discrepancy is due to the value of the *parameter* input parameter.

System action: The Web services or XML assistant continues processing.

User response: Consider whether the selected runtime level is appropriate. If you wish to suppress this message then set a value for the MINIMUM-RUNTIME-LEVEL parameter. If the selected minimum runtime level is unacceptable then remove the *parameter* parameter from the input parameters.

Module: DFHWS2LS, DFHLS2WS, DFHSC2LS, DFHLS2SC

Destination: SYSPRINT

DFHPI9631E Field *field* requires a character array length of *length* but the largest length that can be used in *language* is *maxlength*.

Explanation: There is a maximum length for an array of characters in the target programming language. A character array is required that exceeds this length.

System action: The Web services or XML assistant continues processing.

User response: Several options exist for addressing this problem. Consider changing the value of the LANG parameter to a language that does support this length of character array. Consider changing the MAPPING-LEVEL if a higher level is available. Consider changing the XML schema for the field that triggered this message to indicate a shorter *length* or *maxLength*.

Module: DFHWS2LS, DFHSC2LS

Destination: SYSPRINT

DFHPI9632E URI *uri* is invalid. The reported problem is: *problem*.

Explanation: An invalid URI has been specified. This may be the value of the URI parameter or a URI within a WSDL document or XML schema.

System action: The Web services or XML assistant continues processing.

User response: The value of the URI must be corrected.

Module: DFHWS2LS, DFHLS2WS, DFHSC2LS, DFHLS2SC

Destination: SYSPRINT

DFHPI9633E Invalid value specified for the SOAPVER parameter. Valid values are: 1.1, 1.2 or ALL.

Explanation: An invalid value has been specified for the SOAPVER parameter.

System action: The Web services assistant continues processing.

User response: Correct the value of the SOAPVER parameter.

Module: DFHWS2LS, DFHLS2WS

Destination: SYSPRINT

DFHPI9634E WSDL service element *service* cannot be found in the WSDL document.

Explanation: Either the WSDL service element defined by the SERVICE parameter cannot be found in the WSDL document or it is not associated with the requested BINDING.

System action: The Web services assistant continues processing.

User response: Correct the value of the SERVICE parameter.

Module: DFHWS2LS

Destination: SYSPRINT

DFHPI9635E WSDL reusable binding *binding* may only be used if the WSDL-SERVICE parameter is specified.

Explanation: The BINDING that has been specified is not associated with a specific WSDL interface. The WSDL-SERVICE parameter must also be set in order to indicate which interface the BINDING is used with.

System action: The Web services assistant continues processing.

User response: Specify a value for the WSDL-SERVICE parameter.

Module: DFHWS2LS

Destination: SYSPRINT

DFHPI9636E WSDL operation *operation* cannot be found.

Explanation: An operation specifed using the OPERATIONS parameter cannot be located within the WSDL document.

System action: The Web services assistant continues processing.

User response: Correct the value of the OPERATIONS parameter.

Module: DFHWS2LS

Destination: SYSPRINT

DFHPI9637W One or more WSDL operations have not been processed for a provider mode Web service.

Explanation: A WSDL service with multiple operations has been processed by DFHWS2LS. One or more WSDL operations described within that WSDL document have been ignored due to the value of the OPERATIONS parameter.

System action: The Web services assistant continues processing.

User response: Consider whether it is acceptable or possible that a request may be sent to CICS for one of the ignored operations. If this happens then CICS will be unable to process that request.

If this is unacceptable then consider removing the OPERATIONS parameter.

Module: DFHWS2LS

Destination: SYSPRINT

DFHPI9638W The minimum runtime level required for this Web service is greater than the mapping level due to the use of WSDL 2.0

Explanation: DFHWS2LS has been executed against a WSDL 2.0 document. The generated WSBind file can only be installed into a CICS region at runtime level 2.0 or above. A mapping level prior to 2.0 has been requested which implies that backwards compatibility with a prior version of CICS is required.

System action: The Web services assistant continues processing.

User response: Consider whether it is acceptable for the Web service to require runtime level 2.0. Consider using a mapping level that exploits the capabilities of a runtime 2.0 environment.

Module: DFHWS2LS

Destination: SYSPRINT

DFHPI9639E WSDL 2.0 has been used but it is not compatible with the specified minimum runtime level.

Explanation: DFHWS2LS has been executed against a WSDL 2.0 document. The generated WSBind file can only be installed into a CICS region at runtime level 2.0 or above. A minimum runtime level prior to 2.0 has been requested.

System action: The Web services assistant continues processing.

User response: Change the minimum runtime level to allow the use of runtime level 2.0 capabilities.

Module: DFHWS2LS

Destination: SYSPRINT

DFHPI9640I This Web service should be installed into a PIPELINE that uses SOAP version *soapver***.**

Explanation: The WSDL for this this Web service specifies a specific version of SOAP is required. In order to satisfy this requirement the WSBind file produced must be installed into an appropriately configured PIPELINE.

CICS may enforce this requirement at the time that the WSBind file is installed into CICS.

If DFHLS2WS was used with a SOAPVER value of ALL then the WSBind file must be installed into a SOAP 1.2 PIPELINE. This is because a provider mode PIPELINE for SOAP 1.2 is able to support both SOAP 1.2 and SOAP 1.1 concurrently.

System action: The Web services assistant continues processing.

User response: This message is for informational purposes only. The Web service deployer should be aware of the requirement for a specific SOAP version at the time that the Web service is deployed.

Module: DFHWS2LS, DFHLS2WS

Destination: SYSPRINT

DFHPI9641E Unsupported message content model *contentModel* **found whilst processing operation** *operation***.**

Explanation: A WSDL operation processed by DFHWS2LS specifies a content model that is not supported by CICS. CICS only supports content models of 'ELEMENT' and 'NONE'. Any other value implies that a content model other than XML Schema is used.

System action: The Web services assistant continues processing.

User response: The CICS Web services assistants cannot be used to process this WSDL document.

Module: DFHWS2LS

Destination: SYSPRINT

DFHPI9642E WSDL Message Exchange Pattern *mep* **is unsupported. This pattern is specified for operation** *operation***.**

Explanation: A WSDL operation processed by DFHWS2LS specifies a message exchange pattern that is not supported by CICS. CICS only supports MEPs of 'In-Only', 'Robust-In-Only', 'In-Optional-Out' and 'In-Out'.

System action: The Web services assistant continues processing.

User response: Consider removing the unsupportable operation from the WSDL document.

Module: DFHWS2LS

Destination: SYSPRINT

DFHPI9643I This Web service requires a capability implied by URI *uri***. It must be installed into an appropriate PIPELINE.**

Explanation: A WSDL service processed by DFHWS2LS indicates that a particular runtime capability is required for the service. This capability is identified with a URI. This capability is mandatory.

An example of a capability that may be indentified in the WSDL is the use of MTOM/XOP.

System action: The Web services assistant continues processing.

User response: This message is for informational purposes only. The Web service deployer should identify the capability implied by the URI and ensure that the WSBind file is installed into an appropriately configured PIPELINE.

Module: DFHWS2LS

Destination: SYSPRINT

DFHPI9644I This Web service supports a capability implied by URI *uri***.**

Explanation: A WSDL service processed by DFHWS2LS indicates that a particular runtime capability is supported for the service. This capability is identified with a URI. This capability is optional.

An example of a capability that may be indentified in the WSDL is the use of MTOM/XOP.

System action: The Web services assistant continues processing.

User response: This message is for informational purposes only. The Web service deployer should identify the capability implied by the URI and consider deploying the WSBind file into a PIPELINE that is

configured to implement this capability.

Module: DFHWS2LS

Destination: SYSPRINT

DFHPI9645I Operation *operation* requires a capability implied by URI *uri*. It must be installed into an appropriate PIPELINE.

Explanation: A WSDL operation processed by DFHWS2LS indicates that a particular runtime capability is required for the operation. This capability is identified with a URI. This capability is mandatory.

An example of a capability that may be indentified in the WSDL is the use of MTOM/XOP.

System action: The Web services assistant continues processing.

User response: This message is for informational purposes only. The Web service deployer should identify the capability implied by the URI and ensure that the WSBind file is installed into an appropriately configured PIPELINE.

Module: DFHWS2LS

Destination: SYSPRINT

DFHPI9646I Operation *operation* supports a capability implied by URI *uri*.

Explanation: A WSDL operation processed by DFHWS2LS indicates that a particular runtime capability is supported for the operation. This capability is identified with a URI. This capability is optional.

An example of a capability that may be indentified in the WSDL is the use of MTOM/XOP.

System action: The Web services assistant continues processing.

User response: This message is for informational purposes only. The Web service deployer should identify the capability implied by the URI and consider deploying the WSBind file into a PIPELINE that is configured to implement this capability.

Module: DFHWS2LS

Destination: SYSPRINT

DFHPI9647I The request message for operation *operation* requires a capability implied by URI *uri*. It must be installed into an appropriate PIPELINE.

Explanation: A WSDL message processed by DFHWS2LS indicates that a particular runtime capability is required for the message. This capability is identified with a URI. This capability is mandatory.

An example of a capability that may be indentified in the WSDL is the use of MTOM/XOP.

System action: The Web services assistant continues processing.

User response: This message is for informational purposes only. The Web service deployer should identify the capability implied by the URI and ensure that the WSBind file is installed into an appropriately configured PIPELINE.

Module: DFHWS2LS

Destination: SYSPRINT

DFHPI9648I The request message for operation *operation* supports a capability implied by URI *uri*.

Explanation: A WSDL message processed by DFHWS2LS indicates that a particular runtime capability is supported for the message. This capability is identified with a URI. This capability is optional.

An example of a capability that may be indentified in the WSDL is the use of MTOM/XOP.

System action: The Web services assistant continues processing.

User response: This message is for informational purposes only. The Web service deployer should identify the capability implied by the URI and consider deploying the WSBind file into a PIPELINE that is configured to implement this capability.

Module: DFHWS2LS

Destination: SYSPRINT

DFHPI9649I The response message for operation *operation* requires a capability implied by URI *uri*. It must be installed into an appropriate PIPELINE.

Explanation: A WSDL message processed by DFHWS2LS indicates that a particular runtime capability is required for the message. This capability is identified with a URI. This capability is mandatory.

An example of a capability that may be indentified in the WSDL is the use of MTOM/XOP.

System action: The Web services assistant continues processing.

User response: This message is for informational purposes only. The Web service deployer should identify the capability implied by the URI and ensure that the WSBind file is installed into an appropriately configured PIPELINE.

Module: DFHWS2LS

Destination: SYSPRINT

DFHPI9650I The response message for operation *operation* supports a capability implied by URI *uri*.

Explanation: A WSDL message processed by DFHWS2LS indicates that a particular runtime capability is supported for the message. This capability is identified with a URI. This capability is optional.

An example of a capability that may be indentified in the WSDL is the use of MTOM/XOP.

System action: The Web services assistant continues processing.

User response: This message is for informational purposes only. The Web service deployer should identify the capability implied by the URI and consider deploying the WSBind file into a PIPELINE that is configured to implement this capability.

Module: DFHWS2LS

Destination: SYSPRINT

DFHPI9651E The value of parameter *parameter1* is incompatible with the value of parameter *parameter2*.

Explanation: Two conflicting parameter values have been specified in the input parameters for the Web services or XML assistant. At least one of these values must be changed before processing can continue.

For example, the WSDL_1_1 and WSDL_2_0 parameters cannot both indicate the same file name.

System action: The Web services or XML assistant continues processing.

User response: Correct the specified input parameters and retry the operation.

Module: DFHWS2LS DFHLS2WS, DFHSC2LS, DFHLS2SC

Destination: SYSPRINT

DFHPI9652W A required but unsupported WSDL extensibility element has been detected. The element is of type *type*.

Explanation: DFHWS2LS has processed a WSDL document that includes unrecognized extensions. These extensions demand that they must be understood.

DFHWS2LS is unaware of what these WSDL extensions mean. They could potentially affect the runtime behavior of the Web service. For example, they could indicate that some form of extra processing is required.

System action: The Web services assistant continues processing.

User response: Consider whether the required extensions indicated in the WSDL are important. If they are then it may be necessary to perform further configuration to the PIPELINE in which the WSBind file is deployed.

It may be necessary to implement handler programs on the PIPELINE to perform the processing that the WSDL document indicates is required.

Module: DFHWS2LS

Destination: SYSPRINT

DFHPI9653W An unresolved PolicyReference element has been found and ignored. The URI associated with this PolicyReference is *uri*.

Explanation: DFHWS2LS has processed a WSDL document that includes WS-Policy PolicyReference elements. One of these references includes a URI that points to a location DFHWS2LS is unable to resolve.

DFHWS2LS only supports PolicyReference URIs that resolve to a Policy in the current WSDL document. This element must be a child of the root XML element.

System action: The Web services assistant continues processing. The unresolved policy reference is not included in the CICS WS-Policy file.

User response: Consider whether the target Policy is important. If it is then you can either change the WSDL document so that the target policy does resolve locally, or you can edit the appropriate CICS WS-Policy file manually to include the relevant WS-Policy statement.

Module: DFHWS2LS

Destination: SYSPRINT

DFHPI9654W An unsupported Policy element has been found. The element is of type *type* in namespace *namespace*.

Explanation: DFHWS2LS has processed a WSDL document that includes WS-Policy Policy elements. One of these Policy elements is of a type which is not directly supported by CICS.

CICS only implements support for WS-Security policies.

System action: The Web services assistant continues processing. The unsupported Policy elements are included in the CICS WS-Policy file.

User response: It may be necessary to configure the PIPELINE into which the WSBind file is deployed in order to ensure that the requirements of the Policy statement are enforced. This may require the creation of new handler programs for the PIPELINE.

Module: DFHWS2LS

Destination: SYSPRINT

DFHPI9655E The supplied WSDL file contains a message exchange pattern of in-opt-out. This is only supported when PGMINT is set to CHANNEL.

Explanation: DFHWS2LS has processed a WSDL document that includes an operation defined as having an optional response. This form of WSDL operation requires the use of a CICS Channel.

System action: The Web services assistant continues processing.

User response: Change the value of the PGMINT parameter to specify a value of CHANNEL.

Module: DFHWS2LS

Destination: SYSPRINT

DFHPI9656E The WSDL file does not contain any binding elements. There must be at least one WSDL binding.

Explanation: DFHWS2LS has processed a WSDL document that does not include any binding elements. DFHWS2LS requires that there is at least one SOAP binding in the WSDL document.

System action: The Web services assistant continues processing.

User response: Alter the WSDL document so that it does include a WSDL binding.

Module: DFHWS2LS

Destination: SYSPRINT

DFHPI9657W The WSDL file contains *elementType* **elements but the** *parameter* **parameter has not been specified. These elements are ignored.**

Explanation: DFHWS2LS or DFHSC2LS has processed a WSDL or XML schema document that includes a type of content that is only supported when a specific input parameter is set. For example, WS-Policy content is only supported if a WSPOLICY-DIRECTORY is set.

System action: The Web services or XML assistant continues processing. The unsupported content is ignored.

User response: Consider using the specified parameter in order to ensure that the WSDL or XML schema document is fully processed.

Module: DFHWS2LS, DFHSC2LS

Destination: SYSPRINT

DFHPI9658E Directory *directory* **cannot be read.**

Explanation: A directory in the Unix file system cannot be accessed. This is probably because the userid the Web services or XML assistant is executing under does not have read permission for the directory (or one of its parent directories).

System action: The Web services or XML assistant continues processing.

User response: Ensure that the userid used is granted permission to read the directory indicated.

Module: DFHWS2LS, DFHLS2WS, DFHSC2LS, DFHLS2SC

Destination: SYSPRINT

DFHPI9659E Directory *directory* **is not a valid directory.**

Explanation: A directory in the Unix file system is invalid. This is probably because the name specified indicates a specific file rather than a directory.

System action: The Web services or XML assistant continues processing.

User response: Ensure that the directory used is valid.

Module: DFHWS2LS, DFHLS2WS, DFHSC2LS, DFHLS2SC

Destination: SYSPRINT

DFHPI9660I WS-Policy file *file* **has been processed.**

Explanation: A WS-Policy file from the WSPOLICY-DIRECTORY has been processed by DFHLS2WS.

System action: The Web services assistant continues processing.

User response: This informational message can be safely ignored.

Module: DFHLS2WS

Destination: SYSPRINT

DFHPI9661E File *file* **is not a CICS WS-Policy file.**

Explanation: The content of the specified file is not recognized as being a CICS WS-Policy file.

System action: The Web services assistant continues processing.

User response: The files within the WSPOLICY-DIRECTORY should all be CICS WS-Policy files. Consider correcting the file or removing it from the directory.

Module: DFHLS2WS

Destination: SYSPRINT

DFHPI9662E An exception was thrown whilst processing WS-Policy file *file*. The exception message is: *exception*.

Explanation: A problem occured during the processing of a CICS WS-Policy file. The nature of the problem is indicated in the exception.

System action: The Web services assistant continues processing.

User response: Consider the message from the exception. It probably indicates a problem within the WS-Policy file that requires correction.

Module: DFHLS2WS

Destination: SYSPRINT

DFHPI9663E Operation *Operation* specified a SOAP MEP of *specified_MEP*. The only SOAP MEP supported is *supported_MEP*.

Explanation: A WSDL 2.0 document contained an Operation that specified a SOAP Message Exchange Pattern (MEP) that is not supported.

System action: The Web services assistant continues processing.

User response: Consider changing the WSDL document to use a supported SOAP Message Exchange Pattern.

Module: DFHWS2LS

Destination: SYSPRINT

DFHPI9664E The value specified for parameter *parameter* is invalid. Valid values are: *values*.

Explanation: A value has been specified for one of the parameters of the Web services or XML assistants that is invalid.

System action: The Web Services or XML assistant continues processing.

User response: Correct the parameter value passed to the CICS Web Services or XML assistant before retrying. More information on the permissible values for this parameter can be found in the CICS Web Services or XML assistant's log file and the CICS Web Services manual.

Module: DFHWS2LS, DFHLS2WS, DFHSC2LS, DFHLS2SC

Destination: SYSPRINT

DFHPI9665E The WSDL Binding for operation *Operation* specifies an invalid message. *MessageFound* was found, but *MessageExpected* was expected.

Explanation: A WSDL document contained a Binding for an Operation. There is a mismatch between the Messages specified in the BindingOperation and the Messages specified in the Operation. The WSDL document is invalid.

System action: The Web services assistant continues processing.

User response: Correct the error in the WSDL document and reprocess it using DFHWS2LS.

Module: DFHWS2LS

Destination: SYSPRINT

DFHPI9666E A complexType can not contain more than one 'any' type. Problem found in type: ' '.

Explanation: An XML 'any' has been defined twice within the same construct in an XML schema. This is not supported by DFHWS2LS or DFHSC2LS except through the use of minOccurs and maxOccurs attributes.

This message may be issued if two xsd:any constructs appear in the same xsd:sequence. It may also be issued if a construct that is processed as though it were an xsd:any appears in that sequence. For example, if an abstract xsd appeared in the same sequence with an xsd:any then this message is issued.

System action: The Web services or XML assistant continues processing.

User response: Consider changing the WSDL document or XML schema to avoid this problem. For example, you could change the problematic XML construct for a different one that is supported.

For example, the xsd:any construct is supported by both DFHWS2LS and DFHSC2LS and can be used as a replacement for most other constructs at mapping level 2.1 onwards. A change of this type can usually be made without breaking interoperability with partner processes that are implemented using the original XML schema or WSDL document. If changing or simplifying the XML schema or WSDL is not acceptable then other options exist

- If you are using DFHWS2LS, then at runtime level 2.1 onwards you can use the XML-ONLY parameter to opt-out of the CICS supplied XML transformation service. This results in a WSBind file being generated that tells CICS that the application will work directly with the SOAP Body in the DFHWS-BODY container.
- If you are implementing a Web service provider application then you could consider writing your own XML capable SOAP application handler.

- If you are implementing a Web service requester application then you could consider writing an XML capable application that uses the DFHPIRT channel linkable SOAP interface.
- Other products may exist that can help process or omit the problematic XML constructs. For example, IBM's Rational Developer for System Z (RDz) product supports a "meet-in-middle" mapping scenario that allows omitting of specific XML constructs.

Module: DFHWS2LS, DFHSC2LS

Destination: SYSPRINT

DFHPI9667E The supplied WSDL contains an 'any' or 'anyType' element. This is only supported when 'PGMINT' is set to 'CHANNEL'.

Explanation: DFHWS2LS or DFHSC2LS has processed an XML schema that includes an xsd:any element or an xsd:anyType element. These constructs are supported but they result in the XML content being stored in a separate container at runtime. This in turn requires the use of PGMINT=CHANNEL.

System action: The Web services assistant continues processing.

User response: Change the value of the PGMINT parameter to specify a value of CHANNEL.

Module: DFHWS2LS

Destination: SYSPRINT

DFHPI9668E Invalid value specified for the XML-ONLY parameter. Valid values are: TRUE or FALSE.

Explanation: An invalid value has been specified for the XML-ONLY parameter.

System action: The Web services assistant continues processing.

User response: Correct the value of the XML-ONLY parameter.

Module: DFHWS2LS, DFHLS2WS

Destination: SYSPRINT

DFHPI9669E Global XML Element *element* **not found.**

Explanation: The named global element cannot be found in the input WSDL or XML schema document.

System action: The XML assistant continues processing.

User response: Correct the value of the ELEMENTS input parameter.

Module: DFHSC2LS

Destination: SYSPRINT

DFHPI9670E No Global XML Elements or Types have been processed.

Explanation: The input WSDL document or XML schema did not contain any XML elements or types to be processed. An XSDBind file could not be built.

System action: The XML assistant continues processing.

User response: Supply a new input document that contains either Elements or types.

Module: DFHSC2LS

Destination: SYSPRINT

DFHPI9671E Mismatch between WS-Addressing Action and SOAP Action for operation *operation***.**

Explanation: The WS-Addressing Action supplied on the named operation does not match the value of the SOAP Action element.

System action: The Web Services assistant continues processing.

User response: Correct the mismatch between the operations WS-Addressing Action and the SOAP Action, or remove the SOAP Action.

Module: DFHWS2LS

Destination: SYSPRINT

DFHPI9672E Mismatch between WS-Addressing Endpoint Reference address and port address.

Explanation: The WS-Addressing Endpoint Reference address does not match the port address.

System action: The Web Services assistant continues processing.

User response: Correct the mismatch between the WS-Addressing Endpoint Reference address and the port address.

Module: DFHWS2LS

Destination: SYSPRINT

DFHPI9673E Mismatch between WS-Addressing Endpoint Reference address and endpoint address.

Explanation: The WS-Addressing Endpoint Reference address does not match the endpoint address.

System action: The Web Services assistant continues processing.

User response: Correct the mismatch between the

WS-Addressing Endpoint Reference address and the endpoint address.

Module: DFHWS2LS

Destination: SYSPRINT

DFHPI9674E Non-Abstract global XML Type *type* not found.

Explanation: The named global type cannot be found in the input WSDL or XML schema document. DFHSC2LS is expecting to find an xsd:simpleType or an xsd:complexType named *type*. This XML type must not be defined as abstract.

System action: The XML assistant continues processing.

User response: Correct the value of the TYPES input parameter.

Module: DFHSC2LS

Destination: SYSPRINT

DFHPI9675E Multiple WS-Addressing Endpoint References exist.

Explanation: Multiple WS-Addressing Endpoint References have been detected in the selected services binding, only one is allowed.

System action: The Web Services assistant continues processing.

User response: Remove extraneous WS-Addressing Endpoint References from the services endpoint or port.

Module: DFHWS2LS

Destination: SYSPRINT

DFHPI9676E The supplied WSDL contains constructs that are only supported when 'PGMINT' is set to 'CHANNEL'.

Explanation: DFHWS2LS has processed an XML schema that includes a construct that results in CICS containers being used. This in turn requires the use of PGMINT=CHANNEL.

System action: The Web services assistant continues processing.

User response: Change the value of the PGMINT parameter to specify a value of CHANNEL.

Module: DFHWS2LS

Destination: SYSPRINT

DFHPI9677E Invalid WS-Addressing Endpoint Reference element *element*.

Explanation: The WS-Addressing Endpoint Reference in the service binding is not in the correct form to be an Endpoint Reference.

System action: The Web Services assistant stops processing.

User response: Correct the format of the WS-Addressing Endpoint Reference.

Module: DFHWS2LS

Destination: SYSPRINT

DFHPI9679E Invalid WS-Addressing Endpoint Reference element, 'address' element not found.

Explanation: The WS-Addressing Endpoint Reference in the service binding does not contain the mandatory 'address' element.

System action: The Web Services assistant stops processing.

User response: Correct the format of the WS-Addressing Endpoint Reference.

Module: DFHWS2LS

Destination: SYSPRINT

DFHPI9680W The MINIMUM-RUNTIME-LEVEL is less than 3.0. The WS-Addressing content in the WSDL is ignored.

Explanation: The WSDL contains WS-Addressing elements, but the MINIMUM-RUNTIME-LEVEL is less than 3.0. Runtime level 3.0 or greater is required to process WS-Addressing extentions. The generated WSBind file will not contain the WS-Addressing information.

System action: The Web Services assistant continues processing.

User response: If WS-Addressing information is required then set the MINIMUM-RUNTIME-LEVEL to 3.0.

Module: DFHWS2LS

Destination: SYSPRINT

DFHPI9681 E Invalid value specified for the 'WSADDR-EPR-ANY' parameter. Valid values are: 'TRUE' or 'FALSE'.

Explanation: An invalid value has been supplied for the WSADDR-EPR-ANY parameter. Valid values are TRUE or FALSE.

A value of TRUE causes any WS-Addressing Endpoint References to be treated as an xsd:Any type. A value of

FALSE causes any Endpoint References to be broken down into language structure elements.

System action: The Web services assistant stops processing.

User response: Correct the value of the WSADDR-EPR-ANY parameter.

Module: DFHWS2LS

Destination: SYSPRINT

DFHPI9682 W Container names beginning 'DFH' should not be used in channel description documents. The problem is for container '*containerName***'.**

Explanation: A channel description document has been processed which includes a container name that begins 'DFH'. This prefix is reserved for use by CICS and may result in unpredictable problems if used in an application.

System action: The Web services or XML assistant continues processing. The unsupported content is ignored.

User response: Consider whether it is appropriate for a 'DFH' container to be exposed as part of your application interface.

Module: DFHLS2WS, DFHLS2SC

Destination: SYSPRINT

DFHPI9683W Bundle directory *dirName* **already exists and may contain files that are inconsistent with the new Bundle manifest file.**

Explanation: A bundle directory is being created on top of a directory that already exists in the file system. If this directory contains any files then they will still exist within the output bundle. The manifest file for the bundle will not reference these files.

System action: The Web services or XML assistant continues processing. The unsupported content is ignored.

User response: Consider removing any unwanted files from the bundle directory.

Module: DFHLS2SC, DFHSC2LS

Destination: SYSPRINT

DFHPI9684W The value of the XSDBIND parameter indicates a directory name of *dirName***. This is ignored as the XSDBind file is being generated into a Bundle.**

Explanation: An XSDBind file is being added to a Bundle. The name of the XSDBind file is specified in the XSDBIND input parameter, a path has also been specified for the XSDBind file.

If the XML assistant is used without specifying a value for BUNDLE then the file is stored in the path specified. If a value is specified for BUNDLE then the XSDBind file is stored within that BUNDLE rather than in the named directory.

System action: The Web services or XML assistant continues processing.

User response: Consider removing the path from the value of the XSDBIND parameter.

Module: DFHLS2SC, DFHSC2LS

Destination: SYSPRINT

DFHPI9685 E A language structure cannot be parsed. Please ensure that the statement terminator characters are correct and that any brackets are matched.

Explanation: A problem has been found which results in looping within the DFHLS2WS. The problem is probably caused by mismatching brackets within a source file.

System action: The Web services assistant stops processing.

User response: Validate the language structure using the compiler. Fix any error messages that are reported.

Module: DFHLS2WS, DFHLS2SC

Destination: SYSPRINT

DFHPI9686 W Structure *structureName* **is ignored for container** *containerName* **as the container is defined as type 'char'.**

Explanation: A channel description document has been processed which includes a character based container with structured content. Structured content is only supported for bit mode containers.

System action: The Web services assistant continues processing, but the language structure is ignored.

User response: Consider changing the container to be bit mode.

Module: DFHLS2WS

Destination: SYSPRINT

DFHPI9687 W Unexpected text *text* **found in columns** *start_column* **to** *end_column***. Text is ignored.**

Explanation: A language structure has been parsed which contains unexpected data in columns that should not be used. This data is ignored.

System action: The Web services or XML assistant continues processing.

User response: Consider formatting the language structure so that it conforms to the normal rules for the associated programming language.

Module: DFHLS2WS, DFHLS2SC

Destination: SYSPRINT

DFHPI9688 E Unexpected End of Line condition encountered for line '*line*' of file *filename*.

Explanation: A line of input data from file *filename* has terminated unexpectedly. This might imply an error in the language structure.

System action: The Web Services assistant stops processing.

User response: Correct the input data.

One possible cause for this error is where a period character is used in a COBOL PICTURE clause. This is not currently supported and can cause subsequent processing to be incorrect. That in turn can result in this message being issued.

Module: DFHLS2WS, DFHLS2SC

Destination: SYSPRINT

DFHPI9689E Bundle directory *dirName* already exists and will not be replaced because OVERWRITE-OUTPUT=NO is specified.

Explanation: The XML assistant has detected that a CICS bundle already exists at the location specified by the **BUNDLE** parameter. **OVERWRITE-OUTPUT=NO** was specified, or allowed to default. This prevents the new bundle from being created.

System action: The XML assistant terminates.

User response: If you want the bundle to be replaced then rerun the XML assistant with **OVERWRITE-OUTPUT=YES** specified. If the existing bundle is not to be replaced then rerun with a different location specified for the **BUNDLE** parameter.

Module: DFHLS2SC, DFHSC2LS

Destination: SYSPRINT

DFHPI9800E The Service Registry Client has not been initialized.

Explanation: The WSRR client has not been initialized, so no WSRR Web service requests can be sent.

System action: The interaction with WSRR was not performed.

User response: Contact IBM support.

Module: DFHWS2LS, DFHLS2WS

Destination: SYSPRINT

DFHPI9801E A document with a matching name, namespace and version already exists within the registry. The publish step was not run.

Explanation: When attempting to publish the generated WSDL document another WSDL document with the same name, namespace, and version has been found.

System action: The WSDL document is not published to WSRR.

User response: Run the tooling using a different WSRR-VERSION parameter value or if the WSDL document stored in WSRR is incorrect remove it and run the tooling again.

Module: DFHLS2WS

Destination: SYSPRINT

DFHPI9802E The setting of the registry endpoint was not successful.

Explanation: The setting of the endpoint was not successful.

System action: The interaction with WSRR was not performed. No processing occurred for DFHWS2LS. The Web service binding file and generated WSDL document are present on the file system.

User response: Check that the WSRR-SERVER parameter value is set to the correct host and port.

Module: DFHWS2LS, DFHLS2WS

Destination: SYSPRINT

DFHPI9803W Greater than 250 custom properties have been defined; the first 250 are used.

Explanation: More than 250 custom properties were specified on the tooling input. A maximum of 250 properties are supported.

System action: Publishing continues using the first 250 custom properties.

User response: Reduce the number of custom properties specified on the tooling input.

Module: DFHLS2WS

Destination: SYSPRINT

DFHPI9804E When retrieving a document from a registry a fault was returned with message *faultMessage*.

Explanation: A SOAP fault was returned by WSRR.

System action: The interaction with WSRR was not performed. No processing occured for DFHWS2LS.

User response: Check that the WSRR-SERVER parameter value is set to the correct host and port. Review the message returned in the SOAP fault.

Module: DFHWS2LS

Destination: SYSPRINT

DFHPI9805E An attempt to retrieve a document from a registry failed with reason *failReason***.**

Explanation: The Web service request to WSRR failed.

System action: The interaction with WSRR was not performed. No processing occurred for DFHWS2LS.

User response: Ensure that the server specified by the WSRR-SERVER parameter is running. Check that the WSRR-SERVER parameter value is set to the correct host and port. If you are using security, invalid credentials can cause this error to occur. Check that WSRR-USERNAME and WSRR-PASSWORD are set correctly.

Module: DFHWS2LS

Destination: SYSPRINT

DFHPI9806E The WSDL file was not found at the specified location.

Explanation: The generated WSDL document could not be found.

System action: The WSDL document is not published to WSRR.

User response: Contact IBM support.

Module: DFHLS2WS

Destination: SYSPRINT

DFHPI9807E The WSDL file can not be read in the CCSID specified.

Explanation: The generated WSDL document could not be read.

System action: The WSDL document is not published to WSRR.

User response: Set the CCSID parameter value to a CCSID that is supported.

Module: DFHLS2WS

Destination: SYSPRINT

DFHPI9808E The WSDL file could not be used due to an IOException.

Explanation: The generated WSDL document could not be read.

System action: The WSDL document is not published to WSRR.

User response: Ensure that the permissions are correct for the directory that the generated WSDL is written to.

Module: DFHLS2WS

Destination: SYSPRINT

DFHPI9809E When querying a registry a fault was returned with message *faultMessage***.**

Explanation: A SOAP fault was returned by WSRR.

System action: The interaction with WSRR was not performed. No processing occurred for DFHWS2LS. For DFHLS2WS the Web service binding file and generated WSDL document are present on the file system.

User response: Check that the WSRR-SERVER has been set to the correct host and port. Review the message returned in the SOAP fault.

Module: DFHWS2LS, DFHLS2WS

Destination: SYSPRINT

DFHPI9810E An attempt to query a registry failed with reason *failReason***.**

Explanation: The Web service request to WSRR failed.

System action: The interaction with WSRR was not performed. No processing occurred for DFHWS2LS. For DFHLS2WS the Web service binding file and generated WSDL document are present on the file system.

User response: Ensure that the server specified by the WSRR-SERVER parameter value is running. Check that the WSRR-SERVER parameter value is set to the correct host and port. If you are using security, invalid credentials can cause this error to occur. Check that the parameter values for WSRR-USERNAME and WSRR-PASSWORD are set correctly.

Module: DFHWS2LS, DFHLS2WS

Destination: SYSPRINT

DFHPI9811I The document *docName* **has been found in the registry with unique identifier** *docURI***.**

Explanation: The named document was found in the registry.

System action: Processing continues as normal.

User response: None

Module: DFHWS2LS, DFHLS2WS

Destination: SYSPRINT

DFHPI9812W Multiple documents matching the query have been found. The first will be used.

Explanation: Multiple documents that matched the name, namespace, and version were found when querying the registry. The first document is used.

System action: Processing continues using the first document returned by WSRR.

User response: Check that the correct WSDL document has been used to create the language structures. If the WSDL document used is incorrect use the WSRR-NAMESPACE and WSRR-VERSION parameters to reduce the number of WSDL documents found when querying the registry.

Module: DFHWS2LS

Destination: SYSPRINT

DFHPI9813E When publishing to a registry a fault was returned with message *faultMessage***.**

Explanation: A SOAP fault was returned by WSRR.

System action: The interaction with WSRR can not be performed. The Web service binding file and generated WSDL document have been created.

User response: Check that the WSRR-SERVER parameter has been set to the correct host and port. Review the message returned in the SOAP fault.

Module: DFHLS2WS

Destination: SYSPRINT

DFHPI9814E An attempt to publish to a registry failed with reason *failReason***.**

Explanation: The Web service request to WSRR failed.

System action: The interaction with WSRR can not be performed. The Web service binding file and generated WSDL document have been created.

User response: Ensure that server specified in the WSRR-SERVER parameter is running. Check that the WSRR-SERVER parameter has been set to the correct host and port. If you are using security, invalid credentials can cause this error to occur. Check that the values for parameter WSRR-USERNAME and WSRR-PASSWORD are set correctly.

Module: DFHLS2WS

Destination: SYSPRINT

DFHPI9815I Starting *requesttype* **Web service request.**

Explanation: A message is written to the log to indicate a Web service request is about to be sent.

System action: Processing continues.

User response: None

Module: DFHWS2LS, DFHLS2WS

Destination: SYSPRINT

DFHPI9816I Response received for *requesttype* **Web service request.**

Explanation: A message is written to the log to indicate a Web service request has successfully received a response.

System action: Processing continues.

User response: None

Module: DFHWS2LS, DFHLS2WS

Destination: SYSPRINT

DFHPI9817I The WSRR-SERVER location is *wsrrserver***.**

Explanation: A message is written to the log to indicate what value the WSRR-SERVER parameter has been set to.

System action: Processing continues.

User response: None

Module: DFHWS2LS, DFHLS2WS

Destination: SYSPRINT

DFHPI9818I Custom property set with name *propertyname* **and value** *propertyvalue***.**

Explanation: A message is written to the log to indicate the name and value of a custom property.

System action: Processing continues.

User response: None

Module: DFHLS2WS

Destination: SYSPRINT

DFHPI9819I Starting write of file *filename***.**

Explanation: The named file, retrieved from WSRR, is about to be written to the file system.

System action: Processing continues.

User response: None

Module: DFHWS2LS

Destination: SYSPRINT

DFHPI9820E An IOException occured when attempting to write file *filename***.**

Explanation: The file retrieved from WSRR has not been written to the location specified in the message.

System action: Processing terminates.

User response: Change the permissions for the directories specified in the message to allow the tooling write access.

Module: DFHWS2LS

Destination: SYSPRINT

DFHPI9821E No document matched name *filename*, namespace *xmlns*, and version *version*.

Explanation: No WSDL document was found in WSRR that matched the values specified for parameters WSRR-NAME, WSRR-NAMESPACE, and WSRR-VERSION.

System action: There is no WSDL document to process. Processing terminates.

User response: Change the parameters WSRR-NAME, WSRR-NAMESPACE, and WSRR-VERSION to values that match a WSDL document in WSRR.

Module: DFHWS2LS

Destination: SYSPRINT

DFHPI9822 E The parameter *parameterName* has an invalid value of *value*.

Explanation: The named parameter is set to an invalid value.

System action: Processing ends.

User response: Change the parameter to use a valid value. The format for WSRR-SERVER is "protocol://hostname:port".

Module: DFHWS2LS, DFHLS2WS

Destination: SYSPRINT

DFHPI9823 W Publishing of WSDL 2.0 documents to WSRR is not supported. The document *documentName* has not been published.

Explanation: The generated WSDL 2.0 document has not been published to WSRR.

System action: Processing ends.

User response: The publishing of WSDL 2.0 documents to WSRR is not supported by the CICS Web services assistant. The generated Web service binding file and WSDL 2.0 document are ready for use.

Module: DFHLS2WS

Destination: SYSPRINT

DFHPRnnnn messages

DFHPR0101I *date time applid* The table entry for partner *ptnrname* has been replaced.

Explanation: This is an informational message indicating that the partner resource manager has replaced the existing table entry for the *ptnrname* partner, with a new table entry.

System action: The system continues normally.

User response: None.

Module: DFHPRPT

XMEOUT Parameters: *date, time,applid, ptnrname*

Destination: CSRL

DFHPR0102I *date time applid* The table entry for partner *ptnrname* has been added.

Explanation: This is an informational message indicating that the partner resource manager has added a new table entry for the *ptnrname* partner.

System action: The system continues normally.

User response: None.

Module: DFHPRPT

XMEOUT Parameters: *date, time,applid, ptnrname*

Destination: CSRL

DFHPR0103I *date time applid* The table entry for partner *ptnrname* has been deleted.

Explanation: This is an informational message indicating that the partner resource manager has deleted the table entry for the *ptnrname* partner.

System action: The system continues normally.

User response: None.

Module: DFHPRPT

XMEOUT Parameters: *date, time,applid, ptnrname*

Destination: CSRL

DFHPR0104I *applid* Partner resource manager initialization has started.

Explanation: This is an informational message indicating that partner resource manager initialization has started.

System action: Initialization continues.

User response: None.

Module: DFHPRIN1

XMEOUT Parameter: *applid*

Destination: Console

DFHPR0105I *applid* **Partner resource manager initialization has ended.**

Explanation: This is an informational message indicating that partner resource manager initialization has completed successfully.

System action: Initialization continues.

User response: None. You can suppress this message with SIT parameter, MSGLVL=0.

Module: DFHPRIN1

XMEOUT Parameter: *applid*

Destination: Console

DFHPR0106I *applid* **Partner resource manager initialization has failed.**

Explanation: The partner resource manager has failed to initialize successfully.

System action: Message DFHSI1522 is issued following this message. CICS terminates or continues initialization depending upon the operator's response to message DFHSI1522. An exception trace entry is written at the time the failure is detected. Other CICS components called by partner resource manager initialization may also issue messages or write trace entries.

User response: Decide whether CICS can continue execution without the partner resource manager, and respond accordingly to message DFHSI1522. You should also investigate why the partner resource manager failed to initialize, starting from the data contained in the exception trace entry.

Module: DFHPRIN1

XMEOUT Parameter: *applid*

Destination: Console

DFHPSnnnn messages

DFHPS5366 *applid* **The system spooling interface initialization program DFHPSIP is not present.**

Explanation: CICS attempted to link to DFHPSIP but the attempt failed because DFHPSIP was not in the CICS program library.

System action: CICS terminates system spooler initialization.

User response: Place DFHPSIP in the CICS program library.

Module: DFHSIJ1

XMEOUT Parameter: *applid*

Destination: Console

DFHPS5393 *date time applid* **Transaction** *tranid* **ended without closing data set on system spool.**

Explanation: The transaction *tranid* did not close a JES interface data set. Since only one transaction at a time can use the JES input interface, other transactions may be unnecessarily delayed.

System action: CICS executes a default CLOSE with the KEEP option for an INPUT data set or the DELETE option for an output data set.

User response: Change the program so that the transaction issues a SPOOLCLOSE before it terminates, and preferably immediately after the ENDFILE condition occurs on an input data set.

Module: DFHPSPDW

XMEOUT Parameters: *date, time,applid, tranid*

Destination: CSMT

DFHPS5394 *date time applid* **A storage error has occurred in JES interface subtask, the JES interface has been disabled.**

Explanation: An MVS FREEMAIN macro, issued by the CICS JES interface subtask, has failed. To keep dynamic storage area (DSA) storage usable, CICS has terminated the JES interface subtask with MVS user abend 0170.

System action: CICS rejects subsequent SPOOL commands with the NOSPOOL response.

User response: CICS will continue running normally (apart from the rejection of SPOOL commands), and you can let it continue unless your spooling requirements are critical. To reinitiate the JES interface, shut down CICS and perform a warm restart (START=AUTO in the SIT or as an initialization override). Use the MVS dump to find the source of the problem. In the dump, register 6 addresses the instruction before the ABEND. Normally, register 2 contains the address and register 0 the length of the area to be released.

Module: DFHPSPST

XMEOUT Parameters: *date, time,applid*

Destination: CSMT

DFHPTnnnn messages

DFHPT0001 *applid* **An abend (code** *aaa/bbbb***) has occurred at offset** *X'offset'* **in module** *modname***.**

Explanation: An abnormal end (abend) or program check has occurred in module *modname*. This implies that there may be an error in CICS code.

Alternatively
- Unexpected data has been input,
- Storage has been overwritten, or
- There has been a program check within a user program.

The code *aaa* is, if applicable, a 3-digit hexadecimal MVS system completion code (for example, 0C1 or D37). If an MVS code is not applicable, this field is filled with three hyphens. The 4-digit code *bbbb*, which follows *aaa*, is a user abend code produced either by CICS or by another product on the user's system.

If X'*offset* contains the value X'FFFF, then module *modname* was in control at the time of the abend, but the program status word (PSW) was not addressing this module.

System action: An exception entry is made in the trace table. A system dump is taken, unless you have specifically suppressed dumps in the dump table.

Either this is a critical error and CICS is terminated, even if you have specified in the dump table that CICS should not terminate.

Or CICS will continue unless you have specified in the dump table that CICS should terminate. Message DFHME0116 should be produced containing the symptom string for this problem.

User response: Notify the system programmer.

Look up the MVS code *aaa*, if there is one, in the relevant MVS codes manual which is detailed in the book list in the front of this manual.

If the *modname* insert contains the value *????*, then CICS was unable to determine which module has abnormally terminated. In this case, examine the system dump to determine which area of code has caused the program check.

The user should examine other messages to determine what the module which issued this message was doing at the time the abend occurred. From these messages they can deduce which product has produced the abend code *bbbb*. If *bbbb* is identified as a CICS code, it may be either alphameric or numeric.
- If the CICS code is alphameric (for example AKEA) then it is a CICS transaction abend code.
- If the CICS code is numeric (for example 1310), it refers to a CICS message (DFHTS1310 in our example).

If the user abend code is from another product (for example, IMS), refer to the appropriate messages and codes manual to determine the cause of the abend.

The entries in the appropriate manuals will give the user guidance regarding the nature of the error, and may also give some guidance concerning the appropriate user response. The program check may have occurred in a user program. If this is the case, the program check is usually followed by an ASRA or an ASRB transaction abend and a transaction dump.

If you want to suppress system dumps that precede ASRA and ASRB abends, you must specify this on an entry in the dump table, using either CEMT or an EXEC CICS command. Further guidance on suppressing system dumps can be found in the *CICS System Definition Guide*.

You may need further assistance from IBM to resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHPTDM, DFHPTTW

XMEOUT Parameters: *applid, aaa/bbbb, X'offset', modname*

Destination: Console

DFHPT0002 *applid* **A severe error (code** *X'code'***) has occurred in module** *modname***.**

Explanation: An error has been detected in module *modname*. The code X'*code* is the exception trace point id which uniquely identifies what the error is and where the error was detected.

System action: An exception entry is made in the trace table (X'*code* in the message). A system dump is taken, unless you have specifically suppressed dumps in the dump table.

Either this is a critical error and CICS is terminated, even if you have specified in the dump table that CICS should not terminate.

Or CICS will continue unless you have specified in the dump table that CICS should terminate. Message DFHME0116 should be produced containing the symptom string for this problem.

User response: Notify the system administrator. This failure indicates a serious error in CICS. If you have not requested termination in the dump table, you may want to terminate CICS. For further information about CICS exception trace entries, see the *CICS Problem Determination Guide*.

You need further assistance from IBM to resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHPTDM, DFHPTTW

XMEOUT Parameters: *applid, X'code',modname*

Destination: Console

DFHRDnnnn messages

DFHRD0101 *date time applid terminal userid tranid* **INSTALL PROGRAM(***progname***)**

Explanation: Program *progname* has been installed into CICS by userid *userid* at terminal *terminal* using transaction *tranid*.

System action: Processing continues.

User response: None.

Module: DFHAMP

XMEOUT Parameters: *date, time,applid, terminal, userid, tranid, progname*

Destination: CRDI

DFHRD0102 *date time applid terminal userid tranid* **INSTALL MAPSET(***mapsetid***)**

Explanation: Mapset *mapsetid* has been installed into CICS by userid *userid* at terminal *terminal* using transaction *tranid*.

System action: Processing continues.

User response: None.

Module: DFHAMP

XMEOUT Parameters: *date, time,applid, terminal, userid, tranid, mapsetid*

Destination: CRDI

DFHRD0103 *date time applid terminal userid tranid* **INSTALL PARTITIONSET(***partitionsetid***)**

Explanation: Partitionset *partitionsetid* has been installed into CICS by userid *userid* at terminal *terminal* using transaction *tranid*.

System action: Processing continues.

User response: None.

Module: DFHAMP

XMEOUT Parameters: *date, time,applid, terminal, userid, tranid, partitionsetid*

Destination: CRDI

DFHRD0104 *date time applid terminal userid tranid* **INSTALL TRANSACTION(***transid***)**

Explanation: Transaction *transid* has been installed into CICS by userid *userid* at terminal *terminal* using transaction *tranid*.

System action: Processing continues.

User response: None.

Module: DFHAMP

XMEOUT Parameters: *date, time,applid, terminal, userid, tranid, transid*

Destination: CRDI

DFHRD0105 *date time applid terminal userid tranid* **INSTALL PROFILE(***profid***)**

Explanation: Profile *profid* has been installed into CICS by userid *userid* at terminal *terminal* using transaction *tranid*.

System action: Processing continues.

User response: None.

Module: DFHAMP

XMEOUT Parameters: *date, time,applid, terminal, userid, tranid, profid*

Destination: CRDI

DFHRD0106 *date time applid terminal userid tranid* **INSTALL FILE(***fileid***)**

Explanation: File *fileid* has been installed into CICS by userid *userid* at terminal *terminal* using transaction *tranid*.

System action: Processing continues.

User response: None.

Module: DFHAMP

XMEOUT Parameters: *date, time,applid, terminal, userid, tranid, fileid*

Destination: CRDI

DFHRD0107 *date time applid terminal userid tranid* **INSTALL LSRPOOL(***lsrname***)**

Explanation: Lsrpool *lsrname* has been installed into CICS by user ID *userid* at terminal *terminal* using transaction *tranid*.

System action: Processing continues.

User response: None.

Module: DFHAMP

XMEOUT Parameters: *date, time,applid, terminal, userid, tranid, lsrname*

Destination: CRDI

DFHRD0108 *date time applid terminal userid tranid* **INSTALL PARTNER(***partner_name***)**

Explanation: Partner *partner_name* has been installed into CICS by userid *userid* at terminal *terminal* using transaction *tranid*.

System action: Processing continues.

User response: None.

Module: DFHAMP

XMEOUT Parameters: *date, time,applid, terminal, userid, tranid, partner_name*

Destination: CRDI

DFHRD0109 *date time applid terminal userid tranid* **INSTALL TRANCLASS(***tranclassid***)**

Explanation: Transaction class *tranclassid* has been installed into CICS by userid *userid* at terminal *terminal* using transaction *tranid*.

System action: Processing continues.

User response: None.

Module: DFHAMP

XMEOUT Parameters: *date, time,applid, terminal, userid, tranid, tranclassid*

Destination: CRDI

DFHRD0110 *date time applid terminal userid tranid* **INSTALL TDQUEUE(***tdqueueid***)**

Explanation: Transient data queue *tdqueueid* has been installed into CICS by userid *userid* at terminal *terminal* using transaction *tranid*.

System action: Processing continues.

User response: None.

Module: DFHAMP

XMEOUT Parameters: *date, time,applid, terminal, userid, tranid, tdqueueid*

Destination: CRDI

DFHRD0111 *date time applid terminal userid tranid* **INSTALL JOURNALMODEL(***journalmodelid***)**

Explanation: Journal model *journalmodelid* has been installed into CICS by userid *userid* at terminal *terminal* using transaction *tranid*.

System action: Processing continues.

User response: None.

Module: DFHAMP

XMEOUT Parameters: *date, time,applid, terminal, userid, tranid, journalmodelid*

Destination: CRDI

DFHRD0112 *date time applid terminal userid tranid* **INSTALL DB2CONN(***db2conn-name***)**

Explanation: DB2CONN *db2conn-name* has been installed into CICS by userid *userid* at terminal *terminal* using transaction *tranid*.

System action: Processing continues.

User response: None.

Module: DFHAMP

XMEOUT Parameters: *date, time,applid, terminal, userid, tranid, db2conn-name*

Destination: CRDI

DFHRD0113 *date time applid terminal userid tranid* **INSTALL DB2ENTRY(***db2entry-name***)**

Explanation: DB2ENTRY *db2entry-name* has been installed into CICS by userid *userid* at terminal *terminal* using transaction *tranid*.

System action: Processing continues.

User response: None.

Module: DFHAMP

XMEOUT Parameters: *date, time,applid, terminal, userid, tranid, db2entry-name*

Destination: CRDI

DFHRD0114 *date time applid terminal userid tranid* **INSTALL DB2TRAN(***db2tran-name***)**

Explanation: DB2TRAN *db2tran-name* has been installed into CICS by userid *userid* at terminal *terminal* using transaction *tranid*.

System action: Processing continues.

User response: None.

Module: DFHAMP

XMEOUT Parameters: *date, time,applid, terminal, userid, tranid, db2tran-name*

Destination: CRDI

DFHRD0115 *date time applid terminal userid tranid* **INSTALL PROCESSTYPE(***processtype-name***)**

Explanation: PROCESSTYPE *processtype-name* has been installed into CICS by userid *userid* at terminal *terminal* using transaction *tranid*.

System action: Processing continues.

User response: None.

Module: DFHAMP

XMEOUT Parameters: *date, time,applid, terminal, userid, tranid, processtype-name*

Destination: CRDI

DFHRD0116 *date time applid terminal userid tranid* **INSTALL TSMODEL(***tsmodel-name***)**

Explanation: TSMODEL *tsmodel-name* has been installed into CICS by userid *userid* at terminal *terminal* using transaction *tranid*.

System action: Processing continues.

User response: None.

Module: DFHAMP

XMEOUT Parameters: *date, time,applid, terminal, userid, tranid, tsmodel-name*

Destination: CRDI

DFHRD0117 *date time applid terminal userid tranid* **INSTALL ENQMODEL(***enqmodel-name***)**

Explanation: ENQMODEL *enqmodel-name* has been installed into CICS by userid *userid* at terminal *terminal* using transaction *tranid*.

System action: Processing continues.

User response: None.

Module: DFHAMP

XMEOUT Parameters: *date, time,applid, terminal, userid, tranid, enqmodel-name*

Destination: CRDI

DFHRD0118I *date time applid terminal userid tranid* **INSTALL REQUESTMODEL(***rqmodel-name***)**

Explanation: REQUESTMODEL *rqmodel-name* has been installed into CICS by userid *userid* at terminal *terminal* using transaction *tranid*.

System action: Processing continues.

User response: None.

Module: DFHAMP

XMEOUT Parameters: *date, time,applid, terminal, userid, tranid, rqmodel-name*

Destination: CRDI

DFHRD0119I *date time applid terminal userid tranid* **INSTALL DOCTEMPLATE(***doctemplate-name***)**

Explanation: DOCTEMPLATE *doctemplate-name* has been installed into CICS by userid *userid* at terminal *terminal* using transaction *tranid*.

System action: Processing continues.

User response: None.

Module: DFHAMP

XMEOUT Parameters: *date, time,applid, terminal, userid, tranid, doctemplate-name*

Destination: CRDI

DFHRD0120I *date time applid terminal userid tranid* **INSTALL TCPIPSERVICE(***tcpipservice-name***)**

Explanation: TCPIPSERVICE *tcpipservice-name* has been installed into CICS by userid *userid* at terminal *terminal* using transaction *tranid*.

System action: Processing continues.

User response: None.

Module: DFHAMP

XMEOUT Parameters: *date, time,applid, terminal, userid, tranid, tcpipservice-name*

Destination: CRDI

DFHRD0121I *date time applid terminal userid tranid* **INSTALL CORBASERVER(***corbaserver-name***)**

Explanation: CORBASERVER *corbaserver-name* has been installed into CICS by userid *userid* at terminal *terminal* using transaction *tranid*.

System action: Processing continues.

User response: None.

Module: DFHAMP

XMEOUT Parameters: *date, time,applid, terminal, userid, tranid, corbaserver-name*

Destination: CRDI

DFHRD0122I *date time applid terminal userid tranid* **INSTALL DJAR(***djar-name***)**

Explanation: DJAR *djar-name* has been installed into CICS by userid *userid* at terminal *terminal* using transaction *tranid*.

System action: Processing continues.

User response: None.

Module: DFHAMP

XMEOUT Parameters: *date, time,applid, terminal, userid, tranid, djar-name*

Destination: CRDI

DFHRD0123I *date time applid terminal userid tranid* **INSTALL URIMAP(***urimap-name***)**

Explanation: URIMAP *urimap-name* has been installed into CICS by userid *userid* at terminal *terminal* using transaction *tranid*.

System action: Processing continues.

User response: None.

Module: DFHAMP

XMEOUT Parameters: *date, time,applid, terminal, userid, tranid, urimap-name*

Destination: CRDI

DFHRD0124I *date time applid terminal userid tranid* **INSTALL PIPELINE(***pipeline-name***)**

Explanation: PIPELINE *pipeline-name* has been installed into CICS by userid *userid* at terminal *terminal* using transaction *tranid*.

System action: Processing continues.

User response: None.

Module: DFHAMP

XMEOUT Parameters: *date, time,applid, terminal, userid, tranid, pipeline-name*

Destination: CRDI

DFHRD0125I *date time applid terminal userid tranid* **INSTALL WEBSERVICE(***webservice-name***)**

Explanation: WEBSERVICE *webservice-name* has been installed into CICS by userid *userid* at terminal *terminal* using transaction *tranid*.

System action: Processing continues.

User response: None.

Module: DFHAMP

XMEOUT Parameters: *date, time,applid, terminal, userid, tranid, webservice-name*

Destination: CRDI

DFHRD0126I *date time applid terminal userid tranid* **INSTALL IPCONN(***ipconn-name***)**

Explanation: IPCONN *ipconn-name* has been installed into CICS by userid *userid* at terminal *terminal* using transaction *tranid*.

System action: Processing continues.

User response: None.

Module: DFHAMP

XMEOUT Parameters: *date, time,applid, terminal, userid, tranid, ipconn-name*

Destination: CRDI

DFHRD0127I *date time applid terminal userid tranid* **INSTALL LIBRARY(***library-name***)**

Explanation: LIBRARY *library-name* has been installed into CICS by userid *userid* at terminal *terminal* using transaction *tranid*.

System action: Processing continues.

User response: None.

Module: DFHAMP

XMEOUT Parameters: *date, time,applid, terminal, userid, tranid, library-name*

Destination: CRDI

DFHRD0128 I *date time applid terminal userid tranid* **INSTALL BUNDLE(***bundle-name***)**

Explanation: BUNDLE *bundle-name* has been installed into CICS by user ID *userid* at terminal *terminal* using transaction *tranid*.

System action: Processing continues.

User response: None.

Module: DFHAMP

XMEOUT Parameters: *date, time, applid, terminal, userid, tranid, bundle-name*

Destination: CRDI

DFHRD0129 I *date time applid terminal userid tranid* **INSTALL ATOMSERVICE(***atomservice-name***)**

Explanation: ATOMSERVICE *atomservice-name* has been installed into CICS by user ID *userid* at terminal *terminal* using transaction *tranid*.

System action: Processing continues.

User response: None.

Module: DFHAMP

XMEOUT Parameters: *date, time, applid, terminal, userid, tranid, atomservice-name*

Destination: CRDI

DFHRD0130 I *date time applid terminal userid tranid* **INSTALL MQCONN(***mqconn-name***)**

Explanation: MQCONN *mqconn-name* has been installed into CICS by user ID *userid* at terminal *terminal* using transaction *tranid*.

System action: Processing continues.

User response: None.

Module: DFHAMP

XMEOUT Parameters: *date, time, applid, terminal, userid, tranid, mqconn-name*

Destination: CRDI

DFHRD0131 I *date time applid terminal userid tranid* **INSTALL JVMSERVER(***jvmserver-name***)**

Explanation: JVMSERVER *jvmserver-name* has been installed into CICS by user ID *userid* at terminal *terminal* using transaction *tranid*.

System action: Processing continues.

User response: None.

Module: DFHAMP

XMEOUT Parameters: *date, time, applid, terminal, userid, tranid, jvmserver-name*

Destination: CRDI

DFHREGxx EJBROLE generator utility messages

The RACF EJBROLE generator utility (DFHREG) is a Java application program that extracts security role information from deployment descriptors, and generates a REXX program which can be used to define security roles to RACF.

DFHREG01E Invalid option: *argument*

Explanation: One or more invalid options were specified for the RACF EJBROLE generator utility.

System action: The utility terminates and does not generate an output file.

User response: Use the correct options. Valid options are `-secprfx`, `-out`, `-f`, `-force`, `-v`, `-verbose`, and `-help`.

DFHREG02E Unable to open file *fname*

Explanation: The input file does not exist.

System action: The utility terminates and does not generate an output file.

User response: Check that you have entered the file name correctly.

DFHREG03E Deployment descriptor in file *fname* **is missing or invalid**

Explanation: The deployment descriptor in the input file is either missing, or is invalid.

System action: The utility terminates and does not generate an output file.

User response: Check that the application assembler has provided a correctly constructed deployment descriptor in the input file.

DFHREG04E An unexpected error occured while processing file *fname*

Explanation: A class used by the RACF EJBROLE generator has thrown an unexpected Java exception.

System action: The utility terminates and produces a stack trace. It does not generate an output file.

User response: Use the stack trace to determine possible causes of the problem.

DFHREG05E EJBROLE prefix exceeds 16 characters

Explanation: The prefix specified in the `-secprfx` option is longer than 16 characters.

System action: The utility terminates and does not generate an output file.

User response: Check that you have specified the correct EJBROLE prefix. The prefix must not exceed 16 characters in length, and must match the EJBROLEPRFX system initialization parameter for your CICS system.

DFHREG06E Output file *fname* **already exists**

Explanation: You have specified an output file that already exists.

System action: The utility terminates and does not generate an output file.

User response: If you wish to overwrite an existing file, use the `-force` option. If not, specify a different name for the output file.

DFHREG07E Unable to write to file *fname*

Explanation: A class used by the RACF EJBROLE generator has thrown an unexpected Java exception when attempting to write to its output file.

System action: The utility terminates and produces a stack trace. It does not generate an output file.

User response: Use the stack trace to determine possible causes of the problem.

DFHRLnnnn messages

DFHRL0001 *applid* **An abend (code** *aaa/bbbb***) has occurred at offset** *X'offset'* **in module** *modname***.**

Explanation: An abnormal end (abend) or program check has occurred in module *modname*. This implies that there may be an error in the CICS code. Alternatively, unexpected data has been input, or storage has been overwritten.

The code *aaa/bbbb* is a 3-digit hexadecimal MVS code (if applicable), followed by a 4-digit alphanumeric CICS code. The MVS code is a system completion code (for example, 0C1 or D37). If an MVS code is not applicable, this field is filled with three hyphens. The CICS code is an abend code or a number referring to a CICS message (for example, AKEA is a CICS abend code; 1310 refers to message DFHTS1310).

System action: An exception entry is made in the trace table. A system dump is taken, unless you have specifically suppressed dumps in the dump table.

CICS continues unless you have specified in the dump table that CICS should terminate. If appropriate, an error return code is sent to the caller of this domain. In this case CICS could be terminated by the caller (for example, the domain manager, DFHDMDM). A message is issued to this effect.

Message DFHME0116 should be produced containing the symptom string for this problem.

User response: Notify the system programmer. If CICS is still running, it is necessary to decide whether to terminate CICS.

Look up the MVS code, if there is one, in the relevant MVS codes manual.

Next, look up the CICS alphanumeric code. This tells you, for example, whether the error was a program check, an abend, or a runaway, and may give you some guidance concerning user response.

If module *modname* is not crucial to the running of your CICS system, you may decide to continue and bring CICS down at a convenient time to resolve the problem.

If you cannot continue without the full use of module *modname* you should bring CICS down in a controlled shutdown.

You need further assistance from IBM to resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHRLBR, DFHRLDM, DFHRLPK, DFHRLRG, DFHRLRS, DFHRLVP

XMEOUT Parameters: *applid, aaa/bbbb, X'offset', modname*

Destination: Console

DFHRL0002 *applid* **A severe error (code** *X'code'***) has occurred in module** *modname***.**

Explanation: An error has been detected in module *modname*. The code *X'code* is the exception trace point ID which uniquely identifies what the error is and where the error was detected. For further information about CICS exception trace entries, refer to the *CICS Problem Determination Guide*.

System action: An exception entry (code *code* in the message) is made in the trace table. A system dump is taken, unless you have specifically suppressed dumps in the dump table.

CICS will continue unless you have specified in the dump table that CICS should terminate. If appropriate, an error return code is sent to the caller of this domain. In this case, CICS could be terminated by the caller (for example, the domain manager, DFHDMDM). A message will be issued to this effect.

Message DFHME0116 should be produced containing the symptom string for this problem.

User response: Inform the system programmer. This indicates a possible error in CICS code. The severity of its impact will depend on the importance of the function being executed at the time of the error.

CICS may not have been terminated.

If the message occurs once and module *modname* is not crucial to the running of your CICS system, you may decide to continue to run and bring CICS down at a convenient time to resolve the problem.

If the message recurs or if you cannot run without the full use of module *modname*, you should bring CICS down in a controlled shutdown.

You need further assistance from IBM to resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHRLBR, DFHRLDM, DFHRLPK, DFHRLRG, DFHRLRS

XMEOUT Parameters: *applid, X'code', modname*

Destination: Console

DFHRL0101 E *date time applid tranid* **The CICS resource life-cycle manager encountered an error while trying to link to program** *program_name***.** *{The program abended. | The program was not defined. | The program was not enabled. | The program was not loadable. | No further details are available.}*

Explanation: The CICS resource life-cycle registration class, DFHRLRG, was unable to link to program *program_name*, or the linked program abnormally ended.

System action: The link is abandoned. Error processing continues.

User response: Ensure that the PROGRAM resource definition of the linked program is correct. If the message reports that no further information is available, refer to trace.

Module: DFHRLRG

XMEOUT Parameters: *date, time, applid, tranid, program_name, {1=The program abended., 2=The program was not defined., 3=The program was not enabled., 4=The program was not loadable., 5=No further details are available.}*

Destination: CRLO

DFHRL0102 E *date time applid tranid* **The CICS resource life-cycle manager failed to create the resource** *resource_name* **and returned with reason** *reason***.**

Explanation: The CICS resource life-cycle resource class, DFHRLRS, failed to create the resource *resource_name*.

System action: The creation process ends and the resource is set to a failed state. Error processing continues.

User response: Correct the problem identified in the message. If the message reports that no further information is available, refer to trace.

Module: DFHRLRS

XMEOUT Parameters: *date, time, applid, tranid, resource_name, reason*

Destination: CRLO

DFHRL0103 E *date time applid tranid* **The CICS resource life-cycle manager failed to create the BUNDLE resource** *bundle_name* **because the manifest** *manifest_file* **specified in the bundle root directory** *{was not found. | is invalid.}*

Explanation: The CICS resource life-cycle bundle class, DFHRLPK, failed to create the BUNDLE resource *bundle_name* because the manifest *manifest_file* in the bundle root directory was not found or is not valid.

System action: The creation process ends and the BUNDLE resource is set to a failed state. Error processing continues.

User response: Ensure that the root directory is correctly specified in the BUNDLE resource definition and the manifest is valid.

Module: DFHRLPK

XMEOUT Parameters: *date, time,applid, tranid, bundle_name, manifest_file, {1=was not found., 2=is invalid.}*

Destination: CRLO

DFHRL0104 E *date time applid tranid* **The CICS resource life-cycle manager failed to create the BUNDLE resource** *bundle_name* **because CICS is not authorized to read the resource** *path_name* **defined in the bundle manifest.**

Explanation: The CICS resource life-cycle bundle class, DFHRLPK, failed to create the BUNDLE resource *bundle_name* due to insufficient access rights to the resource *path_name* defined in the bundle manifest.

System action: The creation process ends and the BUNDLE resource is set to a failed state. Error processing continues.

User response: Ensure that the manifest definition in the root directory is correct.

Module: DFHRLPK

XMEOUT Parameters: *date, time, applid, tranid, bundle_name, path_name*

Destination: CRLO

DFHRL0105 E *date time applid tranid* **The CICS resource life-cycle manager failed to create the BUNDLE resource** *bundle_name* **because the resource** *path_name* **defined in the bundle manifest was not found.**

Explanation: The CICS resource life-cycle bundle class, DFHRLPK, failed to create the BUNDLE resource *bundle_name* because the resource *path_name* defined in the bundle manifest was not found.

System action: The creation process ends and the BUNDLE resource is set to a failed state. Error processing continues.

User response: Ensure that the manifest file definition in the root directory is correct.

Module: DFHRLPK

XMEOUT Parameters: *date, time, applid, tranid, bundle_name, path_name*

Destination: CRLO

DFHRL0106 E *date time applid tranid* **The CICS resource life-cycle manager failed to create the BUNDLE resource** *bundle_name* **because CICS is not authorized to read the manifest** *manifest_file* **in the root directory of the bundle.**

Explanation: The CICS resource life-cycle bundle class, DFHRLPK, failed to create the BUNDLE resource

bundle_name due to insufficient access rights to the manifest *manifest_file* in the root directory of the bundle.

System action: The creation process ends and the BUNDLE resource is set to a failed state. Error processing continues.

User response: Ensure that the root directory in the bundle definition is correct.

Module: DFHRLPK

XMEOUT Parameters: *date, time, applid, tranid, bundle_name, manifest_file*

Destination: CRLO

DFHRL0107 I *date time applid userid* **The CICS resource life-cycle manager has started to create the BUNDLE resource** *bundle_name***.**

Explanation: The CICS resource life-cycle bundle class, DFHRLPK, has started to create the BUNDLE resource *bundle_name*. To create a bundle, it reads the manifest in the root directory and creates the required resources.

System action: CICS continues normally.

User response: None.

Module: DFHRLPK

XMEOUT Parameters: *date, time, applid, userid, bundle_name*

Destination: CRLO

DFHRL0108 I *date time applid tranid* **The CICS resource life-cycle manager is in the process of creating the BUNDLE resource** *bundle_name* **and the BUNDLE is in the** *state* **state.**

Explanation: The CICS resource life-cycle resource class, DFHRLPK, is creating the BUNDLE resource *bundle_name* and the BUNDLE is in the *state* state.

System action: CICS continues to create the BUNDLE.

User response: None.

Module: DFHRLPK

XMEOUT Parameters: *date, time, applid, tranid, bundle_name, state*

Destination: CRLO

DFHRL0109 I *date time applid tranid* **The CICS resource life-cycle manager has created the BUNDLE resource** *bundle_name* **and the BUNDLE is in the** *state* **state.**

Explanation: The CICS resource life-cycle resource class, DFHRLPK, has created the BUNDLE resource *bundle_name* and the BUNDLE is in the *state* state.

System action: The creation process is finished. CICS continues normally.

User response: None.

Module: DFHRLPK

XMEOUT Parameters: *date, time, applid, tranid, bundle_name, state*

Destination: CRLO

DFHRL0110 E *date time applid tranid* **The CICS resource life-cycle manager has failed to create the BUNDLE resource** *bundle_name***.**

Explanation: The CICS resource life-cycle bundle class, DFHRLPK, has failed to create the BUNDLE resource *bundle_name*.

System action: The creation process is finished. Error processing continues.

User response: Refer to earlier DFHRLXXXX messages for further information.

Module: DFHRLPK

XMEOUT Parameters: *date, time, applid, tranid, bundle_name*

Destination: CRLO

DFHRL0111 E *date time applid tranid* **The CICS resource life-cycle manager failed to create the resource** *resource_name* **because the resource type** *resource_type* **has not been registered.**

Explanation: The CICS resource life-cycle resource class, DFHRLRS, failed to create the resource *resource_name* because no program is registered to handle *resource_type* resource type.

System action: The creation process ends and the resource is set to a failed state. Error processing continues.

User response: Ensure that a program is registered to the CICS resource life-cycle manager to handle the resource type.

Module: DFHRLRS

XMEOUT Parameters: *date, time, applid, tranid, resource_name, resource_type*

Destination: CRLO

DFHRL0112 E *date time applid tranid* **The encoding of the manifest** *manifest_name* **in the root directory of the bundle** *bundle_name* **is not valid.**

Explanation: The CICS resource life-cycle bundle class, DFHRLPK, failed to create bundle *bundle_name*, because

the encoding of the manifest *manifest_name* in the root directory of the bundle is not valid. The value UTF-8 is expected.

System action: The creation process ends and the bundle is set to a failed state. Error processing continues.

User response: Ensure that the encoding of a manifest is in UTF-8.

Module: DFHRLPK

XMEOUT Parameters: *date, time, applid, tranid, manifest_name, bundle_name*

Destination: CRLO

DFHRL0113 E *date time applid tranid* **The CICS resource life-cycle manager failed to create the BUNDLE resource** *bundle_name* **because CICS failed to parse the manifest** *manifest_name* **specified in the bundle root directory.** *{The manifest is not valid. | Failed to convert the manifest. | The specified bundleVersion is not supported. | The specified bundleRelease is not supported. | The specified release is not supported.}*

Explanation: The CICS resource life-cycle bundle class, DFHRLPK, failed to create bundle *bundle_name*, because CICS failed to parse the manifest *manifest_name* in the root directory of the bundle.

System action: The creation process ends and the bundle is set to a failed state. Error processing continues.

User response: Ensure that the manifest is valid for CICS to parse. Ensure the attributes of the manifest element are correctly specified.

- The supported value of bundleVersion is 1.
- The supported value of bundleRelease is 0.
- The supported value of release is 0.

Refer to information reported in the message and earlier DFHPIXXXX messages for further information.

Module: DFHRLPK

XMEOUT Parameters: *date, time, applid, tranid, bundle_name, manifest_name, {1=The manifest is not valid., 2=Failed to convert the manifest., 3=The specified bundleVersion is not supported., 4=The specified bundleRelease is not supported., 5=The specified release is not supported.}*

Destination: CRLO

DFHRL0114 W *date time applid tranid* **The CICS resource life-cycle manager detected a missing import for BUNDLE** *resource_name***. Import name:** *import_name* **type:** *import_type* **.**

Explanation: The CICS resource life-cycle class, DFHRLRS, has detected that the BUNDLE *resource_name* contains an import that is required and is not currently available and enabled. The import is defined with warning messages active. The import name is *import_name* and its type is *import_type*.

System action: This warning message is issued. If the import is mandatory, the BUNDLE will be in a disabled state until the import is available and enabled.

User response: Ensure that the import name and type are correctly specified in the BUNDLE manifest file. Ensure that the named resource is available and in an enabled state.

Module: DFHRLPK

XMEOUT Parameters: *date, time, applid, tranid, resource_name, import_name, import_type*

Destination: CRLO

DFHRL0115 W *date time applid tranid* **The attempt to** *{enable | disable | discard}* **the BUNDLE** *bundle_name* **failed because one or more of its defined resources are in an** *{ENABLED | UNUSABLE}* **state.**

Explanation: The requested operation on the BUNDLE *bundle_name* could not be performed. One or more resources defined in the BUNDLE are in a state that does not allow this operation.

System action: This warning message is issued. The operation is not performed.

User response: If one or more resources are in an ENABLED state, disable the BUNDLE before attempting the operation again. If one or more resources are in an UNUSABLE state, you can only disable and discard the BUNDLE.

Module: DFHRLPK

XMEOUT Parameters: *date, time, applid, tranid, {1=enable, 2=disable, 3=discard}, bundle_name, {1=ENABLED, 2=UNUSABLE}*

Destination: CRLO

DFHRL0116 E *applid* **The CICS resource life-cycle bundle class failed to re-create the BUNDLE resource** *bundle_name* **because the manifest** *manifest_file* **specified in the bundle was not found.**

Explanation: The CICS resource life-cycle bundle class, DFHRLPK, failed to recover the BUNDLE resource

bundle_name because the manifest *manifest_file* was not found in the bundle META-INF subdirectory.

System action: The re-create process ends and the BUNDLE resource is removed from the CICS catalog.

User response: Redeploy the bundle.

Module: DFHRLPK

XMEOUT Parameters: *applid, bundle_name, manifest_file*

Destination: Console

DFHRL0117 E *applid* **The CICS resource life-cycle bundle class failed to re-create the BUNDLE resource** *bundle_name* **because CICS is not authorized to read the manifest** *manifest_file***.**

Explanation: The CICS resource life-cycle bundle class, DFHRLPK, failed to re-create the BUNDLE resource *bundle_name* due to insufficient access rights to the manifest *manifest_file* in the META-INF subdirectory of the bundle.

System action: The creation process ends and the BUNDLE resource is removed from the CICS catalog.

User response: Redeploy the bundle.

Module: DFHRLPK

XMEOUT Parameters: *applid, bundle_name, manifest_file*

Destination: Console

DFHRL0118 E *applid* **The CICS resource life-cycle bundle class has failed to re-create the BUNDLE resource** *bundle_name***.**

Explanation: The CICS resource life-cycle bundle class, DFHRLPK, has failed to re-create the BUNDLE resource *bundle_name*.

System action: The BUNDLE resource is not re-created and removed from the CICS catalog.

User response: Redploy the bundle.

Module: DFHRLPK

XMEOUT Parameters: *applid, bundle_name*

Destination: Console

DFHRL0119 E *applid* **The CICS resource life-cycle bundle class failed to re-create the BUNDLE resource** *bundle_name* **because of failed consistency checks with the manifest** *manifest_file***.**

Explanation: The CICS resource life-cycle bundle class, DFHRLPK, failed to re-create the BUNDLE resource *bundle_name* because of failed consistency checks with the manifest file *manifest_file*.

This indicates that a BUNDLE has changed since it was last installed and that CICS is unable to recover the previously installed version.

System action: The BUNDLE is created in the DISABLED state.

User response: If you want the new version of the BUNDLE to be used then discard the current version and reinstall the BUNDLE.

Module: DFHRLPK

XMEOUT Parameters: *applid, bundle_name, manifest_file*

Destination: Console

DFHRL0120 W *date time applid tranid* **The import of resource** *resource_name* **of type** *type_name* **failed as the resource was not available in an enabled state.**

Explanation: The CICS resource life-cycle class, DFHRLRS, found that an import resource *resource_name* of type *type_name* was not available and enabled.

System action: This warning message is issued.

User response: Investigate why the resource is not available and enabled.

Module: DFHRLPK

XMEOUT Parameters: *date, time, applid, tranid, resource_name, type_name*

Destination: CRLO

DFHRL0121 W *date time applid tranid* **The CICS resource life-cycle manager detected that a composite name was not provided in the BUNDLE resource** *bundle_name***.**

Explanation: The CICS resource life-cycle class, DFHRLPK, has detected that the BUNDLE *bundle_name* contains a composite definition and its name is not provided.

System action: This warning message is issued. The BUNDLE might be installed in a disabled state.

User response: Ensure that the composite name is correctly specified in the BUNDLE manifest file. Ensure that the named resource is available and in an enabled state.

Module: DFHRLRS

XMEOUT Parameters: *date, time, applid, tranid, bundle_name*

Destination: CRLO

DFHRL0122 E *applid* **The CICS resource life-cycle manager failed to re-create the resource** *resource_name* **for BUNDLE resource** *bundle_name***.**

Explanation: The CICS resource life-cycle resource

class, DFHRLRS, has failed to re-create the resource *resource_name* for BUNDLE resource *bundle_name*.

System action: An exception entry is made in the trace table. A system dump is taken, unless you have specifically suppressed dumps in the dump table. The resource is not re-created and processing continues.

User response: Redeploy the bundle.

Module: DFHRLRS

XMEOUT Parameters: *applid, resource_name, bundle_name*

Destination: Console

DFHRL0123 E *applid* **The CICS resource life-cycle manager failed to acquire PROGRAM** *program_name* **for BUNDLE resource** *bundle_name***.**

Explanation: The CICS resource life-cycle bundle class, DFHRLPK, has failed to acquire PROGRAM *program_name* for BUNDLE resource *bundle_name*. The CSD groups DFHRL and DFHPIPE must be installed before any BUNDLE resources are installed. It is likely that one of these groups is missing from the GRPLIST system initialization parameter.

System action: The bundle fails to install, error processing continues.

User response: Ensure that the required resource definitions are installed. If the definitions are installed from a list in the GRPLIST system initialization parameter, ensure that the supplied definitions are listed before any groups that contain BUNDLE resources.

Module: DFHRLPK

Destination: Console

DFHRMnnnn messages

DFHRM0001 *applid* **An abend (code** *code***) has occurred at offset** *X'offset'* **in module** *module***.**

Explanation: An unexpected program check or abend occurred with abend code *aaa/bbbb*.

The program status word (PSW) at the time of the program check or abend indicated that CICS was executing at offset X'*offset*' in module *modname*. This may have been caused by corruption of CICS code or control blocks.

System action: A system dump is taken and the system attempts to continue operation unless otherwise directed by entries in the dump table.

Message DFHME0116 should be produced containing the symptom string for this problem.

User response: Investigate the cause of the program check or abend using the system dump and any previously output diagnostic information provided by CICS, the access methods, or the operating system.

If you cannot resolve the problem, you will need further assistance from IBM. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHRMDM, DFHRMCD, DFHRMCD1

XMEOUT Parameters: *applid, code,X'offset', module*

Destination: Console

DFHRM0002 *applid* **A severe error (code** *X'code'***) has occurred in module** *module***.**

Explanation: The recovery manager domain has received an unexpected error response from some other part of CICS. The operation requested by recovery manager is described by code X'*code*'.

For further information about CICS exception trace entries, refer to the *CICS Problem Determination Guide*.

System action: A system dump is taken and the system attempts to continue operation unless specifically inhibited by dump table entries.

Message DFHME0116 should be produced containing the symptom string for this problem.

User response: Investigate the cause of the problem as follows

1. Determine if the problem can be explained by any previous messages issued from some other CICS component.
2. Examine the symptom string.
3. Examine the dump.

If you cannot resolve the problem, you will need further assistance from IBM. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHRMDM, DFHRMCD1, DFHRMCD, DFHRMCI2, DFHRMCI3

XMEOUT Parameters: *applid, X'code',module*

Destination: Console

DFHRM0104 *date time applid* **Intersystem communication failure. Resource updates are being committed. Local resources may be out of sync with those on the remote system. Failure date** *mm/dd/yy* **failure time** *hh:mm:ss* **remote system** *name* **transaction** *tranid* **task number** *trannum* **terminal** *termid* **user** *userid* **network UOW** *netuowid* **local UOW** *X'localuowid'***.**

Explanation: Communication with the remote system has been interrupted. The remote system contains the coordinator of this unit of work and the notification of the outcome of the distributed unit of work has not been received.

The unit of work is unilaterally committing the local resource updates rather than waiting for the return of the coordinator system. The unit of work may not shunt for one of the following reasons

- The transaction definition specifies WAIT(NO).
- The unit of work includes an MRO session to a back-level CICS system which does not support the WAIT(YES) option, and the role of the session in the unit of work is such that it cannot await the return of the coordinator system.
- The unit of work includes an LU6.1 session, and the role of the session in the unit of work is such that it cannot await the return of the coordinator system.
- The unit of work involves a task related user exit which is not enabled with the INDOUBTWAIT option.
- The unit of work has updated a recoverable transient data destination, which is defined with WAIT(NO).
- The unit of work involves the installation of CICS resource definitions from the CSD (CICS system definition) file.

Even if the unit of work was shunted, one of the following reasons will cause it to take unilateral action

- The WAITTIME specified in the transaction definition has expired.
- Resynchronization has been preempted by either
  - Setting the connection with the remote system NOTPENDING.
  - Setting the connection with the remote system NORECOVDATA.
  - The XLNACTION attribute of the connection definition of the remote system specifying FORCE.
  - Forcing the unit of work.

The local resource updates are being committed since either

- The unit of work has been explicitly forced to commit.
- The ACTION attribute of the definition of the locally executing transaction specified COMMIT.

One system may have committed its resource updates and the other backed out, leaving updates out of synchronization. This is checked for when communication is re-established, and one of the following messages is issued

DFHRM0110
DFHRM0111
DFHRM0112
DFHRM0113
DFHRM0114
DFHRM0115
DFHRM0116
DFHRM0117
DFHRM0118
DFHRM0119
DFHRM0120
DFHRM0121
DFHRM0122
DFHRM0123

The original failure information provides correlation between this message and its follow-up.

System action: The system commits the local resource updates and releases the locks associated with those updates.

User response: Take user-defined action, if any, to protect data integrity until the remote and the local data can be synchronized.

Module: DFHRMLSO

XMEOUT Parameters: *date, time,applid, mm/dd/yy, hh:mm:ss, name, tranid, trannum, termid, userid, netuowid,X'localuowid'*

Destination: CSMT

DFHRM0105 *date time applid* **Intersystem communication failure. Resource updates are being backed out. Local resources may be out of sync with those on the remote system. Failure date** *mm/dd/yy* **failure time** *hh:mm:ss* **remote system** *name* **transaction** *tranid* **task number** *trannum* **terminal** *termid* **user** *userid* **network UOW** *netuowid* **local UOW** *X'localuowid'***.**

Explanation: Communication with the remote system has been interrupted. The remote system contains the coordinator of this unit of work and the notification of the outcome of the distributed unit of work has not been received.

The unit of work is unilaterally backing out the local resource updates rather than waiting for the return of the coordinator system. The unit of work may not shunt for one of the following reasons

- The transaction definition specifies WAIT(NO).
- The unit of work includes an MRO session to a back-level CICS system which does not support the WAIT(YES) option, and the role of the session in the unit of work is such that it cannot await the return of the coordinator system.
- The unit of work includes an LU6.1 session, and the role of the session in the unit of work is such that it cannot await the return of the coordinator system.
- The unit of work involves a task related user exit which is not enabled with the INDOUBTWAIT option.
- The unit of work has updated a recoverable transient data destination, which is defined with WAIT(NO).

- The unit of work involves the installation of CICS resource definitions from the CSD (CICS system definition) file.

Even if the unit of work was shunted, one of the following reasons will cause it to take unilateral action

- The WAITTIME specified in the transaction definition has expired.
- Resynchronization has been preempted by either
  - Setting the connection with the remote system NOTPENDING.
  - Setting the connection with the remote system NORECOVDATA.
  - The XLNACTION attribute of the connection definition of the remote system specifying FORCE.
  - Forcing the unit of work.

The local resource updates are being backed out since either

- The unit of work has been explicitly forced to backout.
- The ACTION attribute of the definition of the locally executing transaction specified BACKOUT.

One system might have committed its resource updates and the other backed out, leaving updates out of synchronization. This is checked for when communication is re-established, and one of the following messages is issued

DFHRM0110
DFHRM0111
DFHRM0112
DFHRM0113
DFHRM0114
DFHRM0115
DFHRM0116
DFHRM0117
DFHRM0118
DFHRM0119
DFHRM0120
DFHRM0121
DFHRM0122
DFHRM0123

The original failure information provides correlation between this message and its follow-up.

System action: The system backs out the local resource updates and releases the locks associated with those updates.

User response: Take user-defined action, if any, to protect data integrity until the remote and the local data can be synchronized.

Module: DFHRMLSO

XMEOUT Parameters: *date, time,applid, mm/dd/yy, hh:mm:ss, name, tranid, trannum, termid, userid, netuowid,X'localuowid'*

Destination: CSMT

DFHRM0106 *date time applid* **Intersystem communication failure. Resource updates will not be committed or backed out until session recovery. Failure date** *mm/dd/yy* **failure time** *hh:mm:ss* **remote system** *name* **transaction** *tranid* **task number** *trannum* **terminal** *termid* **user** *userid* **network UOW** *netuowid* **local UOW** *X'localuowid'***.**

Explanation: Communication with the remote system has been interrupted. The remote system that contains the coordinator of this unit of work failed and the notification of the outcome of the distributed unit of work has not been received. The definition if the locally executing transaction specifies WAIT(YES) so the local resource updates are being held locked. When communication with the remote system is re-established, the resource updates will be committed or backed out, according to the actions of the other system, and one of the following messages is issued

DFHRM0108
DFHRM0109
DFHRM0112
DFHRM0113
DFHRM0115
DFHRM0116
DFHRM0118
DFHRM0119
DFHRM0121
DFHRM0122

If the time specified by the WAITTIME in the transaction definition of the locally executing transaction expires before communication is re-established then the resource updates are committed or backed out in accordance with the ACTION attribute and one of the following messages is issued

DFHRM0104
DFHRM0105

If a decision to preempt resynchronization activity is taken at the local system by either

- Setting the connection with the remote system NOTPENDING.
- Setting the connection with the remote system NORECOVDATA.
- The XLNACTION attribute of the connection definition of the remote system specifying FORCE.
- Forcing the unit of work.

then again the resource updates are committed or backed out accordingly and one of the following messages is issued

DFHRM0125
DFHRM0126

System action: Processing continues. Locks associated with the resource updates are preserved.

User response: Re-establish communication with the

remote system as soon as possible.

Module: DFHRMLSS

XMEOUT Parameters: *date, time,applid, mm/dd/yy, hh:mm:ss, name, tranid, trannum, termid, userid, netuowid,X'localuowid'*

Destination: CSMT

DFHRM0107 *date time applid* **Intersystem communication failure. Resource updates may be out of sync. Failure date** *mm/dd/yy* **failure time** *hh:mm:ss* **remote system** *name* **transaction** *tranid* **task number** *trannum* **terminal** *termid* **user** *userid* **network UOW** *netuowid* **local UOW** *X'localuowid'***.**

Explanation: Communication with a remote system has been interrupted. This may be due to the failure of a session to a remote system or the failure of a CFDT server system. The resource updates in the local system are committing or backing out. The notification of the outcome of the distributed unit of work might not reach the remote system or server. One system might commit its resource updates while the other backs them out leaving updates out of synchronization. This is checked for at session or server recovery, and one of the following messages is issued

DFHRM0110
DFHRM0111
DFHRM0114
DFHRM0117
DFHRM0120
DFHRM0123
DFHRM0135

If a decision to preempt resynchronization activity is taken at the local system by either

- Setting the connection with the remote system NOTPENDING.
- Setting the connection with the remote system NORECOVDATA.
- The XLNACTION attribute of the connection definition of the remote system specifying FORCE.
- Forcing the unit of work.

then again the resource updates are committed or backed out accordingly and DFHRM0127 is issued.

System action: The system commits or backs out the local resource updates and releases the locks associated with those updates. Information is retained to enable resynchronization with the remote system.

User response: Re-establish communication with the remote system as soon as possible.

Module: DFHRMLSO

XMEOUT Parameters: *date, time,applid, mm/dd/yy, hh:mm:ss, name, tranid, trannum, termid, userid, netuowid,X'localuowid'*

Destination: CSMT

DFHRM0108 *date time applid* **Intersystem communication recovery. Suspended resource updates now being committed. Original failure date** *mm/dd/yy* **failure time** *hh:mm:ss* **remote system** *name* **transaction** *tranid* **task number** *trannum* **terminal** *termid* **user** *userid* **network UOW** *netuowid* **local UOW** *X'localuowid'***.**

Explanation: This message is issued during intersystem communication recovery as a follow up to message DFHRM0106. Communication with the remote system that is the coordinator of this unit of work has been re-established and resynchronization is taking place. It has now been established that the remote system completed the synchronization point. The local resource updates are being committed accordingly.

System action: The system commits the local resource updates and releases the locks associated with those updates.

User response: None.

Module: DFHRMLN

XMEOUT Parameters: *date, time,applid, mm/dd/yy, hh:mm:ss, name, tranid, trannum, termid, userid, netuowid,X'localuowid'*

Destination: CSMT

DFHRM0109 *date time applid* **Intersystem communication recovery. Suspended resource updates now being backed out. Original failure date** *mm/dd/yy* **failure time** *hh:mm:ss* **remote system** *name* **transaction** *tranid* **task number** *trannum* **terminal** *termid* **user** *userid* **network UOW** *netuowid* **local UOW** *X'localuowid'***.**

Explanation: This is an informatory message issued during intersystem communication recovery as a follow up to message DFHRM0106. Communication with the remote system that is the coordinator of this unit of work has been re-established and resynchronization is taking place. It has now been established that the remote system did not complete the synchronization point. The local resource updates are being backed out accordingly.

System action: The system backs out the local resource updates and releases the locks associated with those updates.

User response: If required, restart the interrupted transaction.

Module: DFHRMLN

XMEOUT Parameters: *date, time,applid, mm/dd/yy, hh:mm:ss, name, tranid, trannum, termid, userid, netuowid,X'localuowid'*

Destination: CSMT

DFHRM0110 *date time applid* **Intersystem communication recovery. Unit of work found to be synchronized. Original failure date** *mm/dd/yy* **failure time** *hh:mm:ss* **remote system** *name* **transaction** *tranid* **task number** *trannum* **terminal** *termid* **user** *userid* **network UOW** *netuowid* **local UOW** *X'localuowid'***.**

Explanation: Resynchronization with the remote system which is a subordinate in the unit of work has occurred following the resumption of communication, or the unshunting of the unit of work on the local system. It was found either the local or remote system (or both) had already taken a decision for their parts of the distributed unit of work. It has now been established that the decisions in the local and remote systems are synchronized.

System action: Processing continues.

User response: None

Module: DFHRMLN

XMEOUT Parameters: *date, time,applid, mm/dd/yy, hh:mm:ss, name, tranid, trannum, termid, userid, netuowid,X'localuowid'*

Destination: CSMT

DFHRM0111 *date time applid* **Intersystem communication recovery. Distributed unit of work found to be not synchronized. Original failure date** *mm/dd/yy* **failure time** *hh:mm:ss* **remote system** *name* **transaction** *tranid* **task number** *trannum* **terminal** *termid* **user** *userid* **network UOW** *netuowid* **local UOW** *X'localuowid'***.**

Explanation: Resynchronization with the remote system which is a subordinate in the unit of work has occurred following the resumption of communication, or the unshunting of the unit of work on the local system. It was found either the local or remote system (or both) had already taken a decision for their part of the distributed unit of work. It has now been established that the decisions of the local and remote systems are out of synchronization.

System action: Processing continues.

User response: Take user-defined action to resynchronize the resources in the local and remote systems if necessary.

Module: DFHRMLN

XMEOUT Parameters: *date, time,applid, mm/dd/yy, hh:mm:ss, name, tranid, trannum, termid, userid, netuowid,X'localuowid'*

Destination: CSMT

DFHRM0112 *date time applid* **Intersystem communication recovery. The remote system has reinitialized. The local unit of work is committed. Original failure date** *mm/dd/yy* **failure time** *hh:mm:ss* **remote system** *name* **transaction** *tranid* **task number** *trannum* **terminal** *termid* **user** *userid* **network UOW** *netuowid* **local UOW** *X'localuowid'***.**

Explanation: Communication with the remote system has been resumed. Resynchronization with the remote system was attempted. It was found that the remote system has reinitialized and now has no knowledge of the unit of work. The resource updates of the distributed unit of work in the remote system might have committed or backed out.

If the session is an MRO session to a pre-CICS Transaction Server system, this message may be issued even if the remote system was not reinitialized. This can only occur if the session failed during its first unit of work since connection.

The local system was in-doubt about the outcome of the distributed unit of work and expected to receive notification of the outcome from the remote system. This will never be received.

The local unit of work is committed in accordance with the ACTION attribute in the transaction definition.

System action: The system commits the unit of work and releases the locks associated with any resource updates.

User response: Take user-defined action to resynchronize the resources in the local and remote systems if necessary.

Module: DFHRMLN

XMEOUT Parameters: *date, time,applid, mm/dd/yy, hh:mm:ss, name, tranid, trannum, termid, userid, netuowid,X'localuowid'*

Destination: CSMT

DFHRM0113 *date time applid* **Intersystem communication recovery. The remote system has reinitialized. The local unit of work is backed out. Original failure date** *mm/dd/yy* **failure time** *hh:mm:ss* **remote system** *name* **transaction** *tranid* **task number** *trannum* **terminal** *termid* **user** *userid* **network UOW** *netuowid* **local UOW** *X'localuowid'***.**

Explanation: Communication with the remote system

has been resumed. Resynchronization with the remote system was attempted. It was found that the remote system has reinitialized and now has no knowledge of the unit of work. The resource updates of the distributed unit of work in the remote system might have committed or backed out.

If the session is an MRO session to a pre-CICS Transaction Server system, this message may be issued even if the remote system was not reinitialized. This can only occur if the session failed during its first unit of work since connection.

The unit of work in the local system was in-doubt about the outcome of the distributed unit of work and expected to receive notification of the outcome from the remote system. This will never be received.

The local unit of work is backed out in accordance with the ACTION attribute in the transaction definition.

System action: The system backs out the local resource updates and releases the locks associated with those updates.

User response: Take user-defined action to resynchronize the resources in the local and remote systems if necessary.

Module: DFHRMLN

XMEOUT Parameters: *date, time,applid, mm/dd/yy, hh:mm:ss, name, tranid, trannum, termid, userid, netuowid,X'localuowid'*

Destination: CSMT

DFHRM0114 *date time applid* **Intersystem communication recovery. The remote system has reinitialized. Original failure date** *mm/dd/yy* **failure time** *hh:mm:ss* **remote system** *name* **transaction** *tranid* **task number** *trannum* **terminal** *termid* **user** *userid* **network UOW** *netuowid* **local UOW** *X'localuowid'***.**

Explanation: Communication with the remote system has been resumed. Resynchronization with the remote system was attempted. It was found that the remote system has reinitialized and now has no knowledge of the unit of work. The resource updates of the distributed unit of work in the remote system might have committed or backed out. The unit of work in the local system had previously committed or backed out.

System action: Processing continues.

User response: Take user-defined actions to resynchronize resources in local and remote systems if necessary.

Module: DFHRMLN

XMEOUT Parameters: *date, time,applid, mm/dd/yy, hh:mm:ss, name, tranid, trannum, termid, userid, netuowid,X'localuowid'*

Destination: CSMT

DFHRM0115 *date time applid* **Intersystem communication recovery. The remote system sent mixed heuristic outcome. Resource updates will be committed. Original failure date** *mm/dd/yy* **failure time** *hh:mm:ss* **remote system** *name* **transaction** *tranid* **task number** *trannum* **terminal** *termid* **user** *userid* **network UOW** *netuowid* **local UOW** *X'localuowid'***.**

Explanation: Communication with the remote system has been resumed. Resynchronization with the remote system was attempted. It was found that some resource updates in the distributed unit of work committed and some backed out. The local system was in-doubt about the outcome of the distributed unit of work and expected to receive notification of the outcome from the remote system. The notification received does not determine whether to commit or back out the local resource updates. The definition of the locally executing transaction will be used to decide whether to commit or back out the local resource updates. The local resource updates are committed in accordance with the ACTION attribute in the transaction definition.

System action: The system commits the local resource updates and releases the locks associated with those updates.

User response: Take user-defined action to resynchronize the resources in the local and remote systems.

Module: DFHRMLN

XMEOUT Parameters: *date, time,applid, mm/dd/yy, hh:mm:ss, name, tranid, trannum, termid, userid, netuowid,X'localuowid'*

Destination: CSMT

DFHRM0116 *date time applid* **Intersystem communication recovery. The remote system sent mixed heuristic outcome. The unit of work will be backed out. Original failure date** *mm/dd/yy* **failure time** *hh:mm:ss* **remote system** *name* **transaction** *tranid* **task number** *trannum* **terminal** *termid* **user** *userid* **network UOW** *netuowid* **local UOW** *X'localuowid'***.**

Explanation: Communication with the remote system has been resumed. Resynchronization with the remote system was attempted. It was found that some resource updates in the distributed unit of work committed and some backed out. The local system was in-doubt about the outcome of the distributed unit of work and expected to receive notification of the outcome from the remote system. The notification received does not determine whether to commit or back out the resource updates. The local unit of work is backed out in

accordance with the ACTION attribute in the transaction definition.

System action: The system backs out the local resource updates and releases the locks associated with those updates.

User response: Take user-defined actions to resynchronize resources in local and remote systems, if necessary.

Module: DFHRMLN

XMEOUT Parameters: *date, time,applid, mm/dd/yy, hh:mm:ss, name, tranid, trannum, termid, userid, netuowid,X'localuowid'*

Destination: CSMT

DFHRM0117 *date time applid* **Intersystem communication recovery. The remote system sent mixed heuristic outcome. Original failure date** *mm/dd/yy* **failure time** *hh:mm:ss* **remote system** *name* **transaction** *tranid* **task number** *trannum* **terminal** *termid* **user** *userid* **network UOW** *netuowid* **local UOW** *X'localuowid'***.**

Explanation: Communication with the remote system has been resumed. Resynchronization with the remote system was attempted. It was found that some resource updates in the distributed unit of work committed and some backed out. The resource updates in the local system had previously committed or backed out.

System action: Processing continues.

User response: Take user-defined action to resynchronize the resources in the local and remote systems.

Module: DFHRMLN

XMEOUT Parameters: *date, time,applid, mm/dd/yy, hh:mm:ss, name, tranid, trannum, termid, userid, netuowid,X'localuowid'*

Destination: CSMT

DFHRM0118 *date time applid* **Intersystem communication recovery. Resynchronization information from the remote system was not sufficient to determine the outcome of the unit of work. Resource updates will be committed. Original failure date** *mm/dd/yy* **failure time** *hh:mm:ss* **remote system** *name* **transaction** *tranid* **task number** *trannum* **terminal** *termid* **user** *userid* **network UOW** *uowid* **local UOW** *X'localuowid'***.**

Explanation: Communication with the remote system has been resumed. Resynchronization with the remote system was attempted. The local system was in-doubt about the outcome of the distributed unit of work and expected to receive notification of the outcome from the remote system. Information received from the remote system did not determine whether to commit or back out the local resource updates.

The definition of the locally executing transaction is used to decide whether to commit or back out the local resource updates. The local resource updates are committed in accordance with the ACTION attribute in the transaction definition.

System action: The system commits the local resource updates and releases the locks associated with those updates.

User response: Take user-defined actions to resynchronize resources in local and remote systems, if necessary.

Module: DFHRMLN

XMEOUT Parameters: *date, time,applid, mm/dd/yy, hh:mm:ss, name, tranid, trannum, termid, userid, uowid,X'localuowid'*

Destination: CSMT

DFHRM0119 *date time applid* **Intersystem communication recovery. Resynchronization information from the remote system was not sufficient to determine the outcome of the unit of work. Resource updates will be backed out. Original failure date** *mm/dd/yy* **failure time** *hh:mm:ss* **remote system** *name* **transaction** *tranid* **task number** *trannum* **terminal** *termid* **user** *userid* **network UOW** *netuowid* **local UOW** *X'localuowid'***.**

Explanation: Communication with the remote system has been resumed. Resynchronization with the remote system was attempted. The local system was in-doubt about the outcome of the distributed unit of work and expected to receive notification of the outcome from the remote system. Information received from the remote system did not determine whether to commit or back out the resource updates.

The definition of the locally executing transaction is used to decide whether to commit or back out the local resource updates. The local resource updates are backed out in accordance with the ACTION attribute in the transaction definition.

System action: The system backs out the local resource updates and releases the locks associated with those updates.

User response: Take user-defined action to resynchronize resources in local and remote systems, if necessary.

Module: DFHRMLN

XMEOUT Parameters: *date, time,applid, mm/dd/yy, hh:mm:ss, name, tranid, trannum, termid, userid, netuowid,X'localuowid'*

Destination: CSMT

DFHRM0120 *date time applid* **Intersystem communication recovery. Resynchronization information from the remote system was not sufficient to determine the outcome of the unit of work. Original failure date** *mm/dd/yy* **failure time** *hh:mm:ss* **remote system** *name* **transaction** *tranid* **task number** *trannum* **terminal** *termid* **user** *userid* **network UOW** *netuowid* **local UOW** *X'localuowid'***.**

Explanation: Communication with the remote system has been resumed. Resynchronization with the remote system was attempted. Information received from the remote system did not determine whether resource updates in the distributed unit of work committed or backed out. The resource updates in the local system had previously committed or backed out. When the remote system is a CFDT server, resource updates will have been consistent although the remote system no longer records which action was taken. The CFDT resource may have been subsequently deleted.

System action: Processing continues.

User response: Take user-defined action to resynchronize the resources in the local and remote systems. When the remote system is a CFDT server, no further action is required.

Module: DFHRMLN

XMEOUT Parameters: *date, time,applid, mm/dd/yy, hh:mm:ss, name, tranid, trannum, termid, userid, netuowid,X'localuowid'*

Destination: CSMT

DFHRM0121 *date time applid* **Intersystem communication recovery. A protocol violation was detected during resynchronization with the remote system. Resource updates will be committed. Original failure date** *mm/dd/yy* **failure time** *hh:mm:ss* **remote system** *name* **transaction** *tranid* **task number** *trannum* **terminal** *termid* **user** *userid* **network UOW** *netuowid* **local UOW** *X'localuowid'***.**

Explanation: Communication with the remote system has been resumed. Resynchronization with the remote system was attempted. The local system detected a protocol violation during resynchronization. The local system was in-doubt about the outcome of the distributed unit of work and expected to receive notification of the outcome from the remote system. The local system cannot determine whether to commit or back out the resource updates to be consistent other resource changes in the distributed unit of work. The definition of the locally executing transaction will be used to decide whether to commit or back out the local resource updates. The local resource updates are committed in accordance with the ACTION attribute in the transaction definition.

System action: The system commits the local resource updates and releases the locks associated with those updates.

User response: Take user-defined action to resynchronize the resources in the local and remote systems.

Module: DFHRMLN

XMEOUT Parameters: *date, time,applid, mm/dd/yy, hh:mm:ss, name, tranid, trannum, termid, userid, netuowid,X'localuowid'*

Destination: CSMT

DFHRM0122 *date time applid* **Intersystem communication recovery. A protocol violation was detected during resynchronization with the remote system. Resource updates will be backed out. Original failure date** *mm/dd/yy* **failure time** *hh:mm:ss* **remote system** *name* **transaction** *tranid* **task number** *trannum* **terminal** *termid* **user** *userid* **network UOW** *netuowid* **local UOW** *X'localuowid'***.**

Explanation: Communication with the remote system has been resumed. Resynchronization with the remote system was attempted. The local system detected a protocol violation during resynchronization. The local system was in-doubt about the outcome of the distributed unit of work and expected to receive notification of the outcome from the remote system. The local system cannot determine whether to commit or back out the resource updates to be consistent other resource changes in the distributed unit of work. The definition of the locally executing transaction is used to decide whether to commit or back out the local resource updates. The local resource updates are backed out in accordance with the ACTION attribute in the transaction definition.

System action: The system backs out the local resource updates and releases the locks associated with those updates.

User response: Take user-defined action to resynchronize the resources in the local and remote systems.

Module: DFHRMLN

XMEOUT Parameters: *date, time,applid, mm/dd/yy,*

hh:mm:ss, name, tranid, trannum, termid, userid, netuowid,X'localuowid'

Destination: CSMT

DFHRM0123 *date time applid* **Intersystem communication recovery. A protocol violation was detected during resynchronization with the remote system. Original failure date** *mm/dd/yy* **failure time** *hh:mm:ss* **remote system** *name* **transaction** *tranid* **task number** *trannum* **terminal** *termid* **user** *userid* **network UOW** *netuowid* **local UOW** *X'localuowid'***.**

Explanation: Communication with the remote system has been resumed. Resynchronization with the remote system was attempted. The local system detected a protocol violation during resynchronization. The resource updates in the local system had previously committed or backed out.

System action: Processing continues.

User response: Take user-defined action to resynchronize the resources in the local and remote systems.

Module: DFHRMLN

XMEOUT Parameters: *date, time,applid, mm/dd/yy, hh:mm:ss, name, tranid, trannum, termid, userid, netuowid,X'localuowid'*

Destination: CSMT

DFHRM0124 *date time applid* **Intersystem communication recovery. Resource updates are out of sync. network UOW** *netuowid* **remote system** *name***.**

Explanation: Intersystem communication recovery is in progress. The remote system has attempted to resynchronize a unit of work but the local system no longer has any knowledge of that unit of work. This is because the last agent or the presumed abort protocol is being used and the local system backed out the resource updates associated with the unit of work. The remote system has sent notification that the resource updates in the remote system did not back out.

System action: Processing continues.

User response: Take user-defined action to resynchronize the resources in the local and remote systems.

Module: DFHRMLN

XMEOUT Parameters: *date, time,applid, netuowid, name*

Destination: CSMT

DFHRM0125 *date time applid* **Clear pending issued. The connection to the remote system has been set NOTPENDING. Resource updates will be committed. Original failure date** *mm/dd/yy* **failure time** *hh:mm:ss* **remote system** *name* **transaction** *tranid* **task number** *trannum* **terminal** *termid* **user** *userid* **network UOW** *netuowid* **local UOW** *X'localuowid'***.**

Explanation: The connection with the remote system has been set NOTPENDING or NORECOVDATA, or the connection is defined with XLNACTION(FORCE). The local system was in-doubt about the outcome of the distributed unit of work and expected to receive notification of the outcome from the remote system. Setting the connection with the remote system NOTPENDING or NORECOVDATA preempts the notification of the outcome from the remote system. The definition of the locally executing transaction is used to decide whether to commit or back out the local resource updates. The local resource updates are committed in accordance with the ACTION attribute in the transaction definition.

System action: The system commits the local resource updates and releases the locks associated with those updates.

User response: Take user-defined action to resynchronize the resources in the local and remote systems.

Module:
DFHRMLN,DFHRMLK4,DFHRMLSO,DFHRMLSS

XMEOUT Parameters: *date, time,applid, mm/dd/yy, hh:mm:ss, name, tranid, trannum, termid, userid, netuowid,X'localuowid'*

Destination: CSMT

DFHRM0126 *date time applid* **Clear pending issued. The connection to the remote system has been set NOTPENDING. Resource updates will be backed out. Original failure date** *mm/dd/yy* **failure time** *hh:mm:ss* **remote system** *name* **transaction** *tranid* **task number** *trannum* **terminal** *termid* **user** *userid* **network UOW** *netuowid* **local UOW** *X'localuowid'***.**

Explanation: The connection with the remote system has been set NOTPENDING or NORECOVDATA, or the connection is defined with XLNACTION(FORCE). The local system was in-doubt about the outcome of the distributed unit of work and expected to receive notification of the outcome from the remote system. Setting the connection with the remote system NOTPENDING or NORECOVDATA preempts the notification of the outcome from the remote system. The definition of the locally executing transaction is used to decide whether to commit or back out the local

resource updates. The local resource updates are backed out in accordance with the ACTION attribute in the transaction definition.

System action: The system backs out the local resource updates and releases the locks associated with those updates.

User response: Take user-defined action to resynchronize the resources in the local and remote systems.

Module:
DFHRMLN,DFHRMLK4,DFHRMLSO,DFHRMLSS

XMEOUT Parameters: *date, time,applid, mm/dd/yy, hh:mm:ss, name, tranid, trannum, termid, userid, netuowid,X'localuowid'*

Destination: CSMT

DFHRM0127 *date time applid* **Clear pending issued. The connection to the remote system has been set NOTPENDING. Original failure date** *mm/dd/yy* **failure time** *hh:mm:ss* **remote system** *name* **transaction** *tranid* **task number** *trannum* **terminal** *termid* **user** *userid* **network UOW** *netuowid* **local UOW** *X'localuowid'***.**

Explanation: Communication between the systems had previously failed during a syncpoint. Resynchronization between the systems has been preempted. The connection with the remote system has been

- Set NOTPENDING,
- Set NORECOVDATA,
- Reestablished and is defined with XLNACTION(FORCE).

If the unit of work in the local system was in-doubt about the outcome of the distributed unit of work, local resource updates are committed or backed out in accordance with the ACTION attribute in the transaction definition.

Since no resynchronization with the remote system is attempted, the resource updates in the local and remote systems might be out of synchronization.

System action: Processing continues.

User response: Take user-defined action to resynchronize the resources in the local and remote systems.

Module:
DFHRMLN,DFHRMLK4,DFHRMLSO,DFHRMLSS

XMEOUT Parameters: *date, time,applid, mm/dd/yy, hh:mm:ss, name, tranid, trannum, termid, userid, netuowid,X'localuowid'*

Destination: CSMT

DFHRM0128 *date time applid* **Intersystem communication failure. Resource updates are being committed. Local resources may be out of sync with those on the remote system. Failure date** *mm/dd/yy* **failure time** *hh:mm:ss* **remote system** *name* **transaction** *tranid* **task number** *trannum* **terminal** *termid* **user** *userid* **network UOW** *netuowid* **local UOW** *X'localuowid'***.**

Explanation: Communication with the remote system has failed. The resource updates in the local system are committing. The notification of the outcome of the distributed unit of work might not reach the remote system. One system might commit its resource updates while the other backs them out leaving updates out of synchronization. There will be no resolution message when the local and remote systems resynchronize, because the remote system does not provide the local system with resynchronization information.

System action: The system commits the local resource updates and releases the locks associated with those updates. Information is retained to enable resynchronization with the remote system.

User response: Reestablish communication with the remote system as soon as possible. The local system is the coordinator, and will provide indoubt resolution information for the remote system when communication is reestablished. If the remote system has taken a heuristic decision regarding the unit of work, then it should have provided diagnostic information to indicate this.

Module: DFHRMLSO

XMEOUT Parameters: *date, time,applid, mm/dd/yy, hh:mm:ss, name, tranid, trannum, termid, userid, netuowid,X'localuowid'*

Destination: CSMT

DFHRM0129 *date time applid* **Intersystem communication failure. Resource updates are being backed out. Local resources may be out of sync with those on the remote system. Failure date** *mm/dd/yy* **failure time** *hh:mm:ss* **remote system** *name* **transaction** *tranid* **task number** *trannum* **terminal** *termid* **user** *userid* **network UOW** *netuowid* **local UOW** *X'localuowid'***.**

Explanation: Communication with the remote system has failed. The resource updates in the local system are backing out. The notification of the outcome of the distributed unit of work might not reach the remote system. One system might commit its resource updates while the other backs them out leaving updates out of synchronization. There will be no resolution message when the local and remote systems resynchronize,

because the remote system does not provide the local system with resynchronization information.

System action: The system backs out the local resource updates and releases the locks associated with those updates. Information is retained to enable resynchronization with the remote system.

User response: Reestablish communication with the remote system as soon as possible. The local system is the coordinator, and will provide indoubt resolution information for the remote system when communication is reestablished. If the remote system has taken a heuristic decision regarding the unit of work, then it should have provided diagnostic information to indicate this.

Module: DFHRMLSO

XMEOUT Parameters: *date, time,applid, mm/dd/yy, hh:mm:ss, name, tranid, trannum, termid, userid, netuowid,X'localuowid'*

Destination: CSMT

DFHRM0130 *applid* **Recovery manager has successfully quiesced.**

Explanation: The recovery manager has quiesced.

The warm keypoint has been taken.

System action: Shutdown continues.

User response: None.

Module: DFHRMDM

XMEOUT Parameter: *applid*

Destination: Console

DFHRM0131 *applid* **Resynchronization required with** *protocol* **resources.**

Explanation: This system contained unquiesed state when shutdown was performed. The state may consist of units of work or lognames (lognames can exist for communications protocols IPIC (ISCU), IRC (IRC), and APPC (LU62) only). This system may need to perform resynchronization with other systems to resolve the outcome of any distributed units of work. This can be done as part of the work of a subsequent CICS system.

The systems with which resynchronization is necessary are reported in messages DFHRM0132 or DFHRM0133.

A subsequent CICS start which reinitializes the catalog and system log data would discard the units of work and/or lognames and cause a possible loss of data integrity.

System action: Shutdown continues.

User response: To maintain data integrity, perform an AUTO start and enable resynchronization with the appropriate systems.

Module: DFHRMNS2

XMEOUT Parameters: *applid, protocol*

Destination: Console

DFHRM0132 *date time applid* **Resynchronization is required with** *protocol* **system** *system***.**

Explanation: A unit of work active in the system at shutdown requires resynchronization with the named system. The unit of work was part of a distributed unit of work and resynchronization is necessary to resolve the outcome.

Resynchronization occurs after a subsequent start unless catalog and system log information is reinitialized.

System action: Shutdown continues.

User response: If necessary, take user-defined action to protect data integrity until the remote and the local data can be synchronized.

Module: DFHRMLKQ, DFHRMNS2

XMEOUT Parameters: *date, time,applid, protocol, system*

Destination: CSMT

DFHRM0133 *date time applid* **Resynchronization may be required with** *protocol* **system** *system***.**

Explanation: This system exchanged lognames with the remote system and so may require resynchronization with that system.

Resynchronization occurs after a subsequent CICS start unless catalog or system log information is reinitialized.

System action: Shutdown continues.

User response: If necessary, take user-defined action to protect data integrity until resynchronization takes place.

Module: DFHRMNS2

XMEOUT Parameters: *date, time,applid, protocol, system*

Destination: CSMT

DFHRM0134 *applid* **Recovery manager domain failed reading the global catalog, or did not find its control record.**

Explanation: The recovery manager domain has failed while reading the global catalog. Either it was trying to establish the status of the system at the termination of the last execution of CICS and the control record was missing or invalid, or else it could not read the catalog successfully.

System action: CICS terminates abnormally with a dump.

Message DFHME0116 should be produced containing

the symptom string for this problem.

User response: Investigate the cause of the error using the dump or other diagnostic messages which have been issued (for example, from VSAM or MVS).

If the problem has been caused by an I/O error, see the description of the CICS message already issued from the catalog for guidance.

If the problem has been caused by an invalid data length, see the exception trace entry in the trace table.

If the problem has been caused by a missing control record, the catalog is not suitable for a recoverable start and you should perform an initial start.

Module: DFHRMDM

XMEOUT Parameter: *applid*

Destination: Console

DFHRM0135 *date time applid* **Intersystem communication recovery. Resource updates found to be synchronized. Original failure date** *mm/dd/yy* **failure time** *hh:mm:ss* **remote system** *name* **transaction** *tranid* **task number** *trannum* **terminal** *termid* **user** *userid* **network UOW** *netuowid* **local UOW** *X'localuowid'***.**

Explanation: Resynchronization with the remote system which is a subordinate in the unit of work has occurred following the resumption of communication, or the unshunting of the unit of work on the local system. Either the remote system had already taken a decision for its local resource updates in the distributed unit of work, or the remote system was waiting for the decision from this system. In either case, it has now been established that the resource updates in the local and remote systems are synchronized.

System action: Processing continues.

User response: None

Module: DFHRMLN

XMEOUT Parameters: *date, time,applid, mm/dd/yy, hh:mm:ss, name, tranid, trannum, termid, userid, netuowid,X'localuowid'*

Destination: CSMT

DFHRM0136 *applid* **The applid has changed from** *old_applid* **to** *new_applid***. Recovery cannot continue.**

Explanation: Recovery is requested, but the applid recovered by the recovery manager domain from the CICS catalog is different from that specified for the system. This implies that the identity of the system on the network has changed. The system must maintain the same identity on the network for resynchronization to be performed with other systems.

System action: The system is terminated.

User response: If recovery and resynchronization is required, correct the applid in the SIT and restart the system. Do not reinitialize catalog or system log information unless you wish to change the identity of the CICS system.

Module: DFHRMDM

XMEOUT Parameters: *applid, old_applid, new_applid*

Destination: Console

DFHRM0137 *applid* **Recovery of local logname failed. Recovery cannot continue.**

Explanation: Recovery is requested, but the local logname could not be recovered by the Recovery Manager domain from the CICS catalog.

System action: The system is terminated.

User response: Investigate the possible causes of the failure to read the required data from the CICS catalog. Was the correct Catalog data set being used? Could the Catalog data set have been corrupted?

Module: DFHRMDM

XMEOUT Parameter: *applid*

Destination: Console

DFHRM0139 *date time applid* **UOWLINK deleted by user action. Original failure date** *mm/dd/yy* **failure time** *hh:mm:ss* **remote system** *name* **transaction** *tranid* **task number** *trannum* **terminal** *termid* **user** *userid* **network UOW** *netuowid* **local UOW** *X'localuowid'***.**

Explanation: This message is issued to confirm the deletion of a UOW-link (UOWLINK) by a CEMT or EXEC CICS SET UOWLINK ACTION(DELETE) command. This command is used to delete links that were created by connections that have since been discarded.

System action: The system continues normally.

User response: None.

Module: DFHRMLN

XMEOUT Parameters: *date, time,applid, mm/dd/yy, hh:mm:ss, name, tranid, trannum, termid, userid, netuowid,X'localuowid'*

Destination: CSMT

DFHRM0140 *applid* **Recovery manager autostart override found with value: '***autofield***'.**

Explanation: Recovery manager has located an autostart override record in the global catalog data set

which has one of the values AUTOINIT, AUTOCOLD, or AUTOASIS.

System action: The system continues. If this is an AUTO start, the autostart override value in the message is used to determine the type of start to be performed.

User response: No action is necessary.

Module: DFHRMDM

XMEOUT Parameters: *applid, autofield*

Destination: Console

DFHRM0141 *applid* **Recovery manager autostart override record is not present. Normal processing continues.**

Explanation: There is no autostart override record in the global catalog data set. If you have not used the utility DFHRMUTL this message is normal for an AUTO start and does not represent a problem.

System action: The default auto start processing continues. This is equivalent to an AUTOASIS value in an autostart override record.

User response: No action is necessary.

Module: DFHRMDM

XMEOUT Parameter: *applid*

Destination: Console

DFHRM0142 *applid* **Recovery manager autostart override record found to be: '***autofield***', and this is not a valid value. AUTOASIS is assumed instead.**

Explanation: Recovery manager has located an autostart override record in the global catalog data set which does not have one of the values AUTOINIT, AUTOCOLD, or AUTOASIS.

System action: AUTOASIS is assumed, a dump is taken, and the system continues. The override record will be removed at startup as usual.

User response: No action is necessary. To correctly set the autostart override record the utility DFHRMUTL should be used prior to starting CICS.

Module: DFHRMDM

XMEOUT Parameters: *applid, autofield*

Destination: Console

DFHRM0143 *applid* **Recovery manager autostart override record is invalid. 'AUTOASIS' is assumed.**

Explanation: Recovery manager has found an autostart override record in the global catalog data set, but it has an invalid length or is in the wrong format.

System action: A dump is taken and the system continues. The autostart override value is assumed to be AUTOASIS. The autostart override record is removed from the catalog at startup as usual.

User response: Investigate why the global catalog data set should have been incorrectly modified. The DFHRMUTL utility is used to correctly set the autostart override record prior to starting CICS.

Module: DFHRMDM

XMEOUT Parameter: *applid*

Destination: Console

DFHRM0144 *applid* **Recovery manager catalog record indicates that no recovery is possible. An initial start is required.**

Explanation: Recovery manager has read its catalog record from the global catalog data set and this indicates that no recovery is possible. The most likely reason is that CICS detected a corrupted log before the last CICS shutdown. Startup cannot continue with these start parameters.

System action: CICS terminates abnormally with a dump.

Message DFHME0116 should be produced containing the symptom string for this problem.

User response: Determine whether the CICS startup job correctly identifies the global catalog data set. If it does, the system log may be unusable and you must perform an initial start of CICS.

If the global catalog data set was incorrectly identified, retry the job with the correct global catalog data set.

Module: DFHRMDM

XMEOUT Parameter: *applid*

Destination: Console

DFHRM0145 *applid* **Recovery manager does not recognize the form of start requested by SIT parameters and overrides.**

Explanation: Recovery manager cannot determine what sort of CICS start to perform. The parameters on the SIT and any settings read from the catalog data set are inconsistent with a valid start type.

System action: CICS terminates abnormally with a dump.

Message DFHME0116 should be produced containing the symptom string for this problem.

User response: This failure is caused by an internal CICS inconsistency. You need further assistance from IBM to resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHRMDM

XMEOUT Parameter: *applid*

Destination: Console

DFHRM0146D *applid* **Global catalog data set recovery data not found. System log data will be lost. Reply 'GO' or 'CANCEL'.**

Explanation: A cold start has been requested, and no recovery control record information was found in the global catalog data set. Either this is the first execution of CICS with this global catalog data set, the wrong global catalog data set is being used, or the global catalog data set has been initialized without information necessary for recovery.

System action: The system waits for a response.

Message DFHME0116 should be produced containing the symptom string for this problem.

User response: If this is the first time CICS has been run with this global catalog data set, or if it is intended to delete all recovery information from the system log, reply 'GO'. This forces an initial start with no system log information retained from previous CICS executions. In particular, information used to resynchronize with remote CICS systems is cleared as well as all local recovery information.

If this is not the first time, or if you wish to retain system log information and try with another global catalog data set, reply 'CANCEL' to terminate this CICS execution. Nothing is discarded in this case. Check the global catalog data set and try again.

Module: DFHRMDM

XMEOUT Parameter: *applid*

Destination: Console

DFHRM0147 *applid* **Reply CANCEL was received.**

Explanation: A reply of 'CANCEL' was received in response to message DFHRM0146.

System action: CICS terminates.

Message DFHME0116 should be produced containing the symptom string for this problem.

User response: None.

Module: DFHRMDM

XMEOUT Parameter: *applid*

Destination: Console

DFHRM0148 *date time applid* **Intersystem communication recovery. Resource updates are in sync. network UOW id** *netuowid* **remote system** *name***.**

Explanation: Intersystem communication recovery is in progress. The remote system has attempted to resynchronize a unit of work and the local system no longer has any knowledge of that unit of work. This is because the local system was the coordinator, and the last agent or presumed abort protocols were being used. Any local resource updates associated with the unit of work were backed out. The remote system has sent notification that the resource updates in the remote system are still indoubt (and will be backed out following resynchronization) or have already been backed out.

System action: Processing continues.

User response: None.

Module: DFHRMLN

XMEOUT Parameters: *date, time,applid, netuowid, name*

Destination: CSMT

DFHRM0149I *applid* **Recovery manager autostart override record will be deleted.**

Explanation: Recovery manager has found an autostart override record in the global catalog data set. It is deleted after the correct startup type is determined unless this is a diagnostic run. If this is a diagnostic run the recovery manager global catalog records are not altered.

System action: Unless this is a diagnostic run the record is removed from the global catalog data set and will not influence subsequent starts.

User response: None.

Module: DFHRMDM

XMEOUT Parameter: *applid*

Destination: Console

DFHRM0150 *applid* **Diagnostic run due to AUTODIAG override is finished. CICS will now terminate.**

Explanation: Recovery manager has performed a diagnostic run and now terminates with a dump. This is a result of an AUTODIAG override in the auto override record.

System action: The system terminates. A dump is taken.

User response: No further action is necessary.

Module: DFHRMDM

XMEOUT Parameter: *applid*

Destination: Console

DFHRM0151 *applid* **Diagnostic run is initiated. A simulated AUTO start is performed for diagnostic purposes only.**

Explanation: Recovery manager has detected a diagnostic run override (AUTODIAG) on the global catalog. This run of CICS will not perform any application processing and is for diagnostic purposes only.

System action: The system continues. A dump is taken later prior to terminating.

User response: No further action is necessary at this time. See the *CICS Problem Determination Guide* for details of the reasons you might want to perform a diagnostic run, and for other diagnostics you may wish to preserve at the same time.

Module: DFHRMDM

XMEOUT Parameter: *applid*

Destination: Console

DFHRM0152 *applid* **Recovery manager autostart override record is set to AUTODIAG.**

Explanation: The recovery manager auto override record on the global catalog has been set to AUTODIAG to allow a diagnostic run before the next initial start.

System action: Processing continues.

User response: No action is necessary. See the *CICS Problem Determination Guide* for information about how to perform a diagnostic run.

Module: DFHRMDM

XMEOUT Parameter: *applid*

Destination: Console

DFHRM0154 *applid* **Uncommitted local resource updates found on the System Log. COLD start is NOT preserving data integrity.**

Explanation: A cold start has been requested, but units of work containing uncommitted local resource updates have been found on the system log. The cold start will ignore this information and so data integrity will not be preserved for the affected resources.

System action: The cold start continues.

Message DFHME0116 should be produced containing the symptom string for this problem.

Module: DFHRMU1E

XMEOUT Parameter: *applid*

Destination: Console

DFHRM0156 *applid* **This COLD start will NOT cause any damage to local resources.**

Explanation: The recovery manager established that there were no uncommitted resource updates recorded on the system log from a previous execution of CICS. Thus there is no local recovery necessary.

System action: System initialization continues.

User response: None.

Module: DFHRMU1E

XMEOUT Parameter: *applid*

Destination: Console

DFHRM0200 *applid indoubt_uows* **indoubt UOWs were reconstructed.**

Explanation: This message displays the number of indoubt units of work (UOWs), *indoubt_uows*, which were reconstructed on a warm or emergency restart.

It is issued only if there is at least one UOW which is indoubt. It is issued before any of the reconstructed UOWs are unshunted and processed in parallel.

System action: The system has performed the backwards scan of the system log and is about to start unshunting UOWs which need further processing.

The system commits or backs out UOWs which were indoubt and for which either of the following conditions apply

- The transaction is defined with WAIT(NO)
- The transaction is defined with WAIT(YES) and the WAITTIME has expired.

  Note: A WAITTIME of zero implies an indefinite wait.

Where communications with the coordinator systems is possible, UOWs are unshunted and updates are committed or backed out on the local system. These updates are synchronized with the updates made on the coordinator system.

Where communications with the coordinator systems is not immediately possible, UOWs are preserved until resynchronization with the coordinator system is possible or until the WAITTIME expires. The suspension of these indoubt UOWs causes updated recoverable resources to remain locked against subsequent updates.

User response: None.

If further investigation is required, use the CEMT INQUIRE UOW INDOUBT and CEMT INQUIRE UOWENQ RETAINED commands once CICS has initialized. These commands detail the indoubt UOWs and the associated retained enqueues.

Module: DFHRMU1E.

XMEOUT Parameters: *applid, indoubt_uows*

Destination: Console

DFHRM0201 *date time applid bfail_uows* **backout-failed and** *cfail_uows* **commit-failed UOWs were reconstructed.**

Explanation: This message displays the number of backout-failed units of work (UOWs), *bfail_uows*, and the number of commit-failed UOWs, *cfail_uows*, which were reconstructed on a warm or emergency restart.

This message is issued only if there is at least one such UOW. It is issued before any of the reconstructed UOWs are unshunted and processed in parallel. and backout-failed UOWs are processed. Many of these UOWs are likely to be resolved during CICS initialization. Any true commit-failed or backout-failed UOWs are highlighted by further messages issued during CICS initialization. Also, once CICS is fully initialized, the master terminal transaction (CEMT) can be used to determine whether there are any outstanding commit-failed or backout-failed UOWs.

System action: The system has performed the backwards scan of the system log and is about to start unshunting UOWs which need further processing.

UOWs which have failed to back out locally or commit locally are retried.

User response: None.

Module: DFHRMU1E

XMEOUT Parameters: *date, time,applid, bfail_uows, cfail_uows*

Destination: CSMT

DFHRM0202 *date time applid inflight_uows* **inflight UOWs were reconstructed.**

Explanation: This message displays the number of inflight units of work (UOWs), *inflight_uows*, which were reconstructed on an emergency restart.

It is issued only if there is at least one UOW which is inflight. It is issued before any of the reconstructed UOWs are unshunted and processed in parallel.

System action: The system has performed the backwards scan of the system log and is about to start unshunting UOWs which need further processing.

User response: None.

Module: DFHRMU1E.

XMEOUT Parameters: *date, time,applid, inflight_uows*

Destination: CSMT

DFHRM0203 *applid* **There are** *indoubt_uows* **indoubt, commit-failed and** *bfail_uows* **backout-failed UOWs.**

Explanation: This message displays the numbers of indoubt units of work (UOWs) *indoubt_uows*, backout-failed UOWs *bfail_uows*, and commit-failed UOWs *cfail_uows* in the CICS system at the time of the normal shutdown.

It is issued only if there is at least one such UOW. If there are none, message DFHRM0204 is issued instead.

Messages DFHRM0203 and DFHRM0204 can be used to determine whether or not it is safe to cold start CICS following a normal shutdown without losing resynchronization information. See DFHRM0204 for more information.

System action: Shutdown processing continues.

User response: None.

Module: DFHRMU1K

XMEOUT Parameters: *applid, indoubt_uows, cfail_uows, bfail_uows*

Destination: Console

DFHRM0204 *applid* **There are no indoubt, commit-failed or backout-failed UOWs.**

Explanation: There are no indoubt, commit-failed, or backout-failed units of work (UOWs) in the CICS system at the time of the normal shutdown.

If there are any such units of work, message DFHRM0203 is issued.

This message indicates that it safe to do a cold start of CICS without losing any resynchronization information.

System action: Shutdown processing continues.

User response: None.

Module: DFHRMU1K

XMEOUT Parameter: *applid*

Destination: Console

DFHRM0205 *date time applid* **An activity keypoint has been successfully taken.**

Explanation: CICS has successfully taken an activity keypoint. This message is also issued for the shutdown keypoint.

System action: Normal processing continues..

User response: None.

Module: DFHRMR1K

XMEOUT Parameters: *date, time,applid*

Destination: CSMT

DFHRM0208 *date time applid* **Intersystem communication recovery. A unit of work recovered only for remote resynchronization is now being committed. Local resources are not synchronized with the unit of work. Original failure date** *mm/dd/yy* **failure time** *hh:mm:ss* **remote system** *name* **transaction** *tranid* **task number** *trannum* **terminal** *termid* **user** *userid* **network UOW** *netuowid* **local UOW** *X'localuowid'***.**

Explanation: This message is issued during intersystem communication recovery as a follow up to message DFHRM0106. Communication with the remote system that is the coordinator of this unit of work has been re-established and resynchronization is taking place. It has now been established that the remote system completed the synchronization point. Since this unit of work was recovered as part of a cold start, no local resources were locked pending this resynchronization and local resources are not synchronized with this decision.

System action: The system allows the unit of work to commit for the purposes of resynchronization with remote systems. No local resources are changed.

User response: None.

Module: DFHRMLN

XMEOUT Parameters: *date, time,applid, mm/dd/yy, hh:mm:ss, name, tranid, trannum, termid, userid, netuowid,X'localuowid'*

Destination: CSMT

DFHRM0209 *date time applid* **Intersystem communication recovery. A unit of work recovered only for remote resynchronization is now being backed out. Local resources are not synchronized with the unit of work. Original failure date** *mm/dd/yy* **failure time** *hh:mm:ss* **remote system** *name* **transaction** *tranid* **task number** *trannum* **terminal** *termid* **user** *userid* **network UOW** *netuowid* **local UOW** *X'localuowid'***.**

Explanation: This message is issued during intersystem communication recovery as a follow up to message DFHRM0106. Communication with the remote system that is the coordinator of this unit of work has been re-established and resynchronization is taking place. It has now been established that the remote system did not complete the synchronization point. Since this unit of work was recovered as part of a cold start, no local resources were locked pending this resynchronization and local resources are not synchronized with this decision.

System action: The system allows the unit of work to back out for resynchronization with remote systems. No local resources are changed.

User response: None.

Module: DFHRMLN

XMEOUT Parameters: *date, time,applid, mm/dd/yy, hh:mm:ss, name, tranid, trannum, termid, userid, netuowid,X'localuowid'*

Destination: CSMT

DFHRM0212 *date time applid* **Intersystem communication recovery. The remote system has reinitialized. The unit of work is treated as committed. Original failure date** *mm/dd/yy* **failure time** *hh:mm:ss* **remote system** *name* **transaction** *tranid* **task number** *trannum* **terminal** *termid* **user** *userid* **network UOW** *netuowid* **local UOW** *X'localuowid'***.**

Explanation: Communication with the remote system has been re-established. Resynchronization with the remote system was attempted. It was found that the remote system has restarted and has no knowledge of the unit of work. The distributed unit of work in the remote system might have committed or backed out.

The local system was in-doubt about the outcome of the distributed unit of work and expected to receive notification of the outcome from the remote system. This will never be received.

Since this unit of work was recovered only for remote resynchronization, no local resources were locked pending this decision and local resources are not synchronized with the distributed unit of work. The unit of work is treated as committed in accordance with the ACTION attribute in the transaction definition.

If communication was via an MRO session to a pre-CICS Transaction Server system, this message may be issued even if the remote system was not restarted. This can only occur if the session failed during its first unit of work since connection.

System action: The system continues. Further remote resynchronization treats this unit of work as committed.

User response: Take user-defined action to resynchronize the resources in the local and remote systems if necessary.

Module: DFHRMLN

XMEOUT Parameters: *date, time,applid, mm/dd/yy, hh:mm:ss, name, tranid, trannum, termid, userid, netuowid,X'localuowid'*

Destination: CSMT

DFHRM0213 *date time applid* **Intersystem communication recovery. The remote system has reinitialized. The unit of work is treated as backed out. Original failure date** *mm/dd/yy* **failure time** *hh:mm:ss* **remote system** *name* **transaction** *tranid* **task number** *trannum* **terminal** *termid* **user** *userid* **network UOW** *netuowid* **local UOW** *X'localuowid'***.**

Explanation: Communication with the remote system has been re-established. Resynchronization with the remote system was attempted. It was found that the remote system has restarted and has no knowledge of the unit of work. The distributed unit of work in the remote system might have committed or backed out. The unit of work in the local system was in-doubt about the outcome of the distributed unit of work and expected to receive notification of the outcome from the remote system. This will never be received.

Since the unit of work was recovered only for remote resynchronization no local resources were locked pending this outcome and local resources are not synchronized with the distributed unit of work.

The local unit of work is treated as backed out in accordance with the ACTION attribute in the local transaction definition.

If communication was via an MRO session to a pre-CICS Transaction Server system, this message may be issued even if the remote system was not reinitialized. This can only occur if the session failed during its first UOW since connection.

System action: The system continues. Further remote resynchronization treats this unit of work as backed out.

User response: Take user-defined actions to resynchronize resources in local and remote systems if necessary.

Module: DFHRMLN

XMEOUT Parameters: *date, time,applid, mm/dd/yy, hh:mm:ss, name, tranid, trannum, termid, userid, netuowid,X'localuowid'*

Destination: CSMT

DFHRM0214 *date time applid* **Intersystem communication recovery. The remote system has reinitialized. Original failure date** *mm/dd/yy* **failure time** *hh:mm:ss* **remote system** *name* **transaction** *tranid* **task number** *trannum* **terminal** *termid* **user** *userid* **network UOW** *netuowid* **local UOW** *X'localuowid'***.**

Explanation: Communication with the remote system has been re-established. Resynchronization with the remote system was attempted. It was found that the remote system has restarted and has no knowledge of the unit of work. The distributed unit of work in the remote system might have committed or backed out.

Since this unit of work was recovered only for remote resynchronization, no local resources were locked pending a decision and so local resources are not synchronized with the distributed unit of work.

System action: Processing continues.

User response: Take user-defined actions to resynchronize resources in local and remote systems if necessary.

Module: DFHRMLN

XMEOUT Parameters: *date, time,applid, mm/dd/yy, hh:mm:ss, name, tranid, trannum, termid, userid, netuowid,X'localuowid'*

Destination: CSMT

DFHRM0215 *date time applid* **Intersystem communication recovery. The remote system sent mixed heuristic outcome. The unit of work is treated as committed. Original failure date** *mm/dd/yy* **failure time** *hh:mm:ss* **remote system** *name* **transaction** *tranid* **task number** *trannum* **terminal** *termid* **user** *userid* **network UOW** *netuowid* **local UOW** *X'localuowid'***.**

Explanation: Communication with the remote system has been re-established. Resynchronization with the remote system was attempted. It was found that some resource updates in the distributed unit of work committed and some backed out. The local system was in-doubt about the outcome of the distributed unit of work and expected to receive notification of the outcome from the remote system. The notification received does not determine whether the unit of work should be committed or backed out. The unit of work is treated as committed in accordance with the ACTION attribute in the transaction definition.

Since this unit of work was recovered only for remote resynchronization, no local resources were locked pending this outcome and local resources are not synchronized with this decision.

System action: The system continues. Further remote resynchronization treats this unit of work as committed.

User response: Take user-defined action to resynchronize resources in local and remote systems if necessary.

Module: DFHRMLN

XMEOUT Parameters: *date, time,applid, mm/dd/yy, hh:mm:ss, name, tranid, trannum, termid, userid, netuowid,X'localuowid'*

Destination: CSMT

DFHRM0216 *date time applid* **Intersystem communication recovery. The remote system sent mixed heuristic outcome. The unit of work is treated as backed out. Original failure date** *mm/dd/yy* **failure time** *hh:mm:ss* **remote system** *name* **transaction** *tranid* **task number** *trannum* **terminal** *termid* **user** *userid* **network UOW** *netuowid* **local UOW** *X'localuowid'***.**

Explanation: Communication with the remote system has been re-established. Resynchronization with the remote system was attempted. It was found that some resource updates in the distributed unit of work committed and some backed out. The local system was in-doubt about the outcome of the distributed unit of work and expected to receive notification of the outcome from the remote system. The notification received does not determine whether to commit or back out the resource updates. The local unit of work is treated as backed out in accordance with the ACTION attribute in the transaction definition.

Since this unit of work was recovered only for remote resynchronization, no local resources were locked pending this decision and local resources are not synchronized with the distributed unit of work.

System action: The system continues. Further remote resynchronization treats this unit of work as backed out.

User response: Take user-defined actions to resynchronize resources in local and remote systems if necessary.

Module: DFHRMLN

XMEOUT Parameters: *date, time,applid, mm/dd/yy, hh:mm:ss, name, tranid, trannum, termid, userid, netuowid,X'localuowid'*

Destination: CSMT

DFHRM0218 *date time applid* **Intersystem communication recovery. Resynchronization information from the remote system was not sufficient to determine the outcome of the unit of work. Local resources are not synchronized. The distributed unit of work is committed. Original failure date** *mm/dd/yy* **failure time** *hh:mm:ss* **remote system** *name* **transaction** *tranid* **task number** *trannum* **terminal** *termid* **user** *userid* **network UOW** *uowid* **local UOW** *X'localuowid'***.**

Explanation: Communication with the remote system has been re-established. Resynchronization with the remote system was attempted. The local system was in-doubt about the outcome of the distributed unit of work and expected to receive notification of the outcome from the remote system. Information received from the remote system did not determine whether to commit or back out the unit of work.

The unit of work is committed in accordance with the ACTION attribute in the local transaction definition.

Because this unit of work was recovered only for remote resynchronization, no local resources were locked pending resolution of the unit of work, and local resources are not synchronized with this commit.

Any further remote resynchronization treats this unit of work as committed.

System action: The system commits the unit of work for the purposes of remote resynchronization.

User response: Take user-defined actions to resynchronize resources in local and remote systems, if necessary.

Module: DFHRMLN

XMEOUT Parameters: *date, time,applid, mm/dd/yy, hh:mm:ss, name, tranid, trannum, termid, userid, uowid,X'localuowid'*

Destination: CSMT

DFHRM0219 *date time applid* **Intersystem communication recovery. Resynchronization information from the remote system was not sufficient to determine the outcome of the unit of work. The distributed unit of work is backed out. Local resources are not synchronized. Original failure date** *mm/dd/yy* **failure time** *hh:mm:ss* **remote system** *name* **transaction** *tranid* **task number** *trannum* **terminal** *termid* **user** *userid* **network UOW** *netuowid* **local UOW** *X'localuowid'***.**

Explanation: Communication with the remote system has been re-established. Resynchronization with the remote system was attempted. The local system was in-doubt about the outcome of the distributed unit of work and expected to receive notification of the outcome from the remote system. Information received from the remote system did not determine whether to commit or back out the unit of work.

The unit of work is backed out in accordance with the ACTION attribute in the local transaction definition.

Because this unit of work was recovered only for remote resynchronization, no local resources were locked pending resolution of the unit of work, and local resources are not synchronized with this back out.

Any further remote resynchronization treats this unit of work as backed out.

System action: The system backs out the unit of work for the purposes of remote resynchronization.

User response: Take user-defined action to resynchronize resources in local and remote systems, if necessary.

Module: DFHRMLN

XMEOUT Parameters: *date, time,applid, mm/dd/yy, hh:mm:ss, name, tranid, trannum, termid, userid, netuowid,X'localuowid'*

Destination: CSMT

DFHRM0220 *date time applid* **Intersystem communication recovery. Resynchronization information from the remote system was not sufficient to determine the outcome of the unit of work. Original failure date** *mm/dd/yy* **failure time** *hh:mm:ss* **remote system** *name* **transaction** *tranid* **task number** *trannum* **terminal** *termid* **user** *userid* **network UOW** *netuowid* **local UOW** *X'localuowid'***.**

Explanation: Communication with the remote system has been re-established. Resynchronization with the remote system was attempted. Information received from the remote system did not determine whether the distributed unit of work committed or backed out.

Since this unit of work was recovered only for remote resynchronization, no locks on local resources were held pending resolution of this unit of work, and the local resources are not synchronized with the distributed unit of work.

System action: Processing continues.

User response: Take user-defined action to resynchronize resources in local and remote systems if necessary.

Module: DFHRMLN

XMEOUT Parameters: *date, time,applid, mm/dd/yy, hh:mm:ss, name, tranid, trannum, termid, userid, netuowid,X'localuowid'*

Destination: CSMT

DFHRM0221 *date time applid* **Intersystem communication recovery. A protocol violation was detected during resynchronization with the remote system. The distributed unit of work is treated as committed. Original failure date** *mm/dd/yy* **failure time** *hh:mm:ss* **remote system** *name* **transaction** *tranid* **task number** *trannum* **terminal** *termid* **user** *userid* **network UOW** *netuowid* **local UOW** *X'localuowid'***.**

Explanation: Communication with the remote system has been re-established. Resynchronization with the remote system was attempted. The local system detected a protocol violation during resynchronization. The local system was in-doubt about the outcome of the distributed unit of work and expected to receive notification of the outcome from the remote system. The local system cannot determine whether the distributed unit of work was committed or backed out.

The distributed unit of work is treated as committed in accordance with the ACTION attribute in the local transaction definition.

Since this unit of work was recovered only for remote resynchronization, no local resources were locked pending resolution and no local resources are synchronized with this decision.

Any further remote resynchronization treats this unit of work as committed.

System action: The system continues.

User response: Take user-defined actions to resynchronize resources in local and remote systems if necessary.

Module: DFHRMLN

XMEOUT Parameters: *date, time,applid, mm/dd/yy, hh:mm:ss, name, tranid, trannum, termid, userid, netuowid,X'localuowid'*

Destination: CSMT

DFHRM0222 *date time applid* **Intersystem communication recovery. A protocol violation was detected during resynchronization with the remote system. The distributed unit of work is treated as backed out. Local resources are not synchronized. Original failure date** *mm/dd/yy* **failure time** *hh:mm:ss* **remote system** *name* **transaction** *tranid* **task number** *trannum* **terminal** *termid* **user** *userid* **network UOW** *netuowid* **local UOW** *X'localuowid'***.**

Explanation: Communication with the remote system has been re-established. Resynchronization with the remote system was attempted. The local system detected a protocol violation during resynchronization. The local system was in-doubt about the outcome of the distributed unit of work and expected to receive notification of the outcome from the remote system. The local system cannot determine whether the distributed unit of work committed or backed out.

The distributed unit of work is treated as backed out in accordance with the ACTION attribute in the transaction definition.

System action: The system continues. Any further remote resynchronization treats this unit of work as backed out.

User response: Take user-defined action to

resynchronize the resources in the local and remote systems if necessary.

Module: DFHRMLN

XMEOUT Parameters: *date, time,applid, mm/dd/yy, hh:mm:ss, name, tranid, trannum, termid, userid, netuowid,X'localuowid'*

Destination: CSMT

DFHRM0223 *date time applid* **Intersystem communication recovery. A protocol violation was detected during resynchronization with the remote system. Original failure date** *mm/dd/yy* **failure time** *hh:mm:ss* **remote system** *name* **transaction** *tranid* **task number** *trannum* **terminal** *termid* **user** *userid* **network UOW** *netuowid* **local UOW** *X'localuowid'***.**

Explanation: Communication with the remote system has been re-established. Resynchronization with the remote system was attempted. The local system detected a protocol violation during resynchronization.

Since this unit of work was recovered only for remote resynchronization, local resources are not synchronized and in this case the outcome of the distributed unit of work cannot be determined.

System action: Processing continues.

User response: Take user-defined actions to resynchronize resources in local and remote systems if necessary.

Module: DFHRMLN

XMEOUT Parameters: *date, time,applid, mm/dd/yy, hh:mm:ss, name, tranid, trannum, termid, userid, netuowid,X'localuowid'*

Destination: CSMT

DFHRM0225 *date time applid* **Clear pending issued. The connection to the remote system has been set NOTPENDING. The distributed unit of work is treated as committed. Local resources are not synchronized. Original failure date** *mm/dd/yy* **failure time** *hh:mm:ss* **remote system** *name* **transaction** *tranid* **task number** *trannum* **terminal** *termid* **user** *userid* **network UOW** *netuowid* **local UOW** *X'localuowid'***.**

Explanation: The connection with the remote system has been set NOTPENDING or NORECOVDATA, or the connection is defined with XLNACTION(FORCE). The local system was in-doubt about the outcome of the distributed unit of work and expected to receive notification of the outcome from the remote system. Setting the connection with the remote system NOTPENDING or NORECOVDATA preempts the notification of the outcome from the remote system.

Since this unit of work was recovered only for remote resynchronization, no local resources were locked pending resolution, and local resources are not synchronized with this decision.

The distributed unit of work is treated as committed in accordance with the ACTION attribute in the local transaction definition.

System action: The system continues. Further remote resynchronization treats the unit of work as committed.

User response: Take user-defined actions to resynchronize resources in local and remote systems if necessary.

Module: DFHRMLK4

XMEOUT Parameters: *date, time,applid, mm/dd/yy, hh:mm:ss, name, tranid, trannum, termid, userid, netuowid,X'localuowid'*

Destination: CSMT

DFHRM0226 *date time applid* **Clear pending issued. The connection to the remote system has been set NOTPENDING. The distributed unit of work is treated as backed out. Local resources are not synchronized. Original failure date** *mm/dd/yy* **failure time** *hh:mm:ss* **remote system** *name* **transaction** *tranid* **task number** *trannum* **terminal** *termid* **user** *userid* **network UOW** *netuowid* **local UOW** *X'localuowid'***.**

Explanation: The connection with the remote system has been set NOTPENDING or NORECOVDATA, or the connection is defined with XLNACTION(FORCE). The local system was in-doubt about the outcome of the distributed unit of work and expected to receive notification of the outcome from the remote system. Setting the connection with the remote system NOTPENDING or NORECOVDATA preempts the notification of the outcome from the remote system.

Since this unit of work was recovered only for remote resynchronization, no local resources were locked pending resolution, and local resources are not synchronized with this decision.

The distributed unit of work is treated as backed out in accordance with the ACTION attribute in the local transaction definition.

System action: The system continues. Further remote resynchronization treats this unit of work as backed out.

User response: Take user-defined actions to resynchronize resources in local and remote systems if necessary.

Module: DFHRMLK4

XMEOUT Parameters: *date, time,applid, mm/dd/yy, hh:mm:ss, name, tranid, trannum, termid, userid, netuowid,X'localuowid'*

Destination: CSMT

DFHRM0227 *date time applid* **Clear pending issued. The connection to the remote system has been set NOTPENDING. Original failure date** *mm/dd/yy* **failure time** *hh:mm:ss* **remote system** *name* **transaction** *tranid* **task number** *trannum* **terminal** *termid* **user** *userid* **network UOW** *netuowid* **local UOW** *X'localuowid'***.**

Explanation: The connection with the remote system has been set NOTPENDING. The unit of work is recorded as committed or backed out, but since this unit of work was recovered only for remote resynchronization, local resources might not be synchronized with this decision.

The local system did not receive acknowledgment that the remote system had received notification of the outcome of the unit of work.

No further resynchronization with this remote system is attempted and the distributed unit of work in the local and remote systems may not be synchronized.

System action: Processing continues.

User response: Take user-defined action to resynchronize resources in local and remote systems if necessary.

Module: DFHRMLK4

XMEOUT Parameters: *date, time,applid, mm/dd/yy, hh:mm:ss, name, tranid, trannum, termid, userid, netuowid,X'localuowid'*

Destination: CSMT

DFHRM0228 *applid indoubt_uows* **indoubt UOWs have been recovered for the purpose of remote resynchronization. Local resources are not synchronized with these UOWs.**

Explanation: This message displays the number of indoubt units of work (UOWs), *indoubt_uows*, which have been recovered for resynchronization with remote systems. This message is only issued on cold starts. Local resources may not be kept synchronized with remote resources because CICS is cold starting.

It is issued only if there is at least one UOW which is indoubt. It is issued before any of the reconstructed UOWs are unshunted and processed in parallel.

System action: The system has performed the backwards scan of the system log and is about to start unshunting UOWs where resynchronization is possible. Where communications with the remote system or systems is not immediately possible, UOWs are preserved until resynchronization is possible or until WAITTIME (defined on the transaction definition) expires.

This message is followed by message DFHRM0208 if the UOW has been committed, or by DFHRM0209 if the UOW has been backed out on the remote system or systems.

User response: None.

Module: DFHRMU1E.

XMEOUT Parameters: *applid, indoubt_uows*

Destination: Console

DFHRM0229 *date time applid bfail_uows* **backout-failed and** *cfail_uows* **commit-failed UOWs have been recovered for the purpose of remote resynchronization. Local resources are not synchro nized with these UOWs.**

Explanation: This message displays the number of backout-failed units of work (UOWs), *bfail_uows*, and the number of commit-failed UOWs, *cfail_uows*, which have been recovered for resynchronization with remote systems. These UOWs may now be in backout-waiting or commit-waiting states after cold start recovery processing. This message is only issued on cold starts. Local resources may not be kept synchronized with remote resources because CICS is cold starting.

This message is issued only if there is at least one such UOW. It is issued before any of the reconstructed UOWs are processed.

System action: The system has performed the backwards scan of the system log and is about to start resynchronization for UOWs that require this.

Where communications with the remote system or systems is not immediately possible, UOWs are preserved until resynchronization is possible or until WAITTIME (defined on the transaction definition) expires.

This message is followed by message DFHRM0208 if the UOW has been committed, or by DFHRM0209 if the UOW has been backed out on the remote system or systems.

User response: None.

Module: DFHRMU1E

XMEOUT Parameters: *date, time,applid, bfail_uows, cfail_uows*

Destination: CSMT

DFHRM0230 *date time applid inflight_uows* **inflight UOWs have been recovered for the purpose of remote resynchronization. Local resources are not synchronized with these UOWs.**

Explanation: This message displays the number of inflight units of work (UOWs), *inflight_uows*, which have been recovered for resynchronization with remote systems. This message is issued only on cold starts. Local resources may not be kept synchronized with remote resources because CICS is cold starting.

It is issued only if there is at least one UOW which is inflight. It is issued before any of the reconstructed UOWs are unshunted and processed in parallel.

System action: The system has performed the backwards scan of the system log and is about to start unshunting UOWs where resynchronization is possible.

Where communications with the remote system or systems is not immediately possible, UOWs are preserved until resynchronization is possible or until WAITTIME (defined on the transaction definition) expires.

This message is followed by message DFHRM0208 if the UOW has been committed, or by DFHRM0209 if the UOW has been backed out on the remote system or systems.

User response: None.

Module: DFHRMU1E.

XMEOUT Parameters: *date, time,applid, inflight_uows*

Destination: CSMT

DFHRM0235 *date time applid* **Intersystem communication recovery. Local resources are not synchronized. Original failure date** *mm/dd/yy* **failure time** *hh:mm:ss* **remote system** *name* **transaction** *tranid* **task number** *trannum* **terminal** *termid* **user** *userid* **network UOW** *netuowid* **local UOW** *X'localuowid'***.**

Explanation: Communication with the remote system that is a subordinate of this unit of work failed and has been re-established. Resynchronization with the remote system has occurred. Either the remote system has already taken a decision for its local resource updates in the distributed unit of work, or the remote system was waiting for the decision from this system. In either case, since this unit of work was recovered only for remote resynchronization, the local resources are not synchronized.

System action: Processing continues.

User response: Take action to resynchronize resources in the local and remote systems, if necessary.

Module: DFHRMLN

XMEOUT Parameters: *date, time,applid, mm/dd/yy, hh:mm:ss, name, tranid, trannum, termid, userid, netuowid,X'localuowid'*

Destination: CSMT

DFHRM0300 KEYWORD '*keyword***' IS INVALID OR MISUSED.**

Explanation: The SYSIN data set for DFHRMUTL contains an unrecognized keyword or a keyword which is used incorrectly.

System action: The DFHRMUTL job terminates.

User response: Correct the invalid keyword and retry.

Module: DFHRMUTL

Destination: SYSPRINT

DFHRM0301 *applid* **Force purge of transaction ID** *tranid* **task number** *taskno* **has been deferred because unit of work** *X'uowid'* **is in post commit syncpoint processing.**

Explanation: CICS has received a request to force purge task *taskno*. The unit of work, *uowid*, associated with the target of the force purge request is in a critical phase of syncpoint processing. The target task cannot be purged while it is in this state.

System action: CICS attempts to defer the purge until the target task is no longer protected against purge.

If the syncpoint occurs at the end of the task, the task is permanently protected against purge.

User response: Normally the task should remain in this critical phase of syncpoint for only a short time. If the target task still has not ended, investigate why unit of work *uowid* has still to complete syncpoint processing.

See the *CICS Problem Determination Guide* for guidance about diagnosing task waits. it can only be issued to the console. It should not be rerouted to a transient data queue.

Module: DFHRMU1N

XMEOUT Parameters: *applid, tranid,taskno, X'uowid'*

Destination: Console

DFHRM0302 ERROR *{OPENING | READING | WRITING | CLOSING}* **THE** *{DFHGCD | NEWGCD}* **DATA SET RETURN CODE:** *X'vsam_retcode'***, REASON:** *X'vsam_reason'***.**

Explanation: An error occurred when processing a VSAM data set. The VSAM return and reason codes are X'*vsam_retcode*' and X'*vsam_reason*'.

System action: The DFHRMUTL job terminates.

User response: See the *z/OS DFSMS Macro Instructions for Data Sets* manual for the meaning of the return and reason codes. Check the syslog for associated data services messages.

If the error is in opening the NEWGCD data set, ensure that the VSAM cluster
- Has the REUSE attribute
- Has a DD card in the JCL
- Does not name the same data set as the DFHGCD DD card
- Is not currently open to another job.

Module: DFHRMUTL

Destination: SYSPRINT

DFHRM0303 ERROR *{OPENING | READING | WRITING}* **THE** *{SYSIN | SYSPRINT}* **DATA SET.**

Explanation: An error occurred when processing a QSAM data set.

System action: The DFHRMUTL job terminates.

User response: Ensure that the data set DD card is properly defined. Look for associated syslog messages to identify the source of the problem.

Module: DFHRMUTL

Destination: SYSPRINT

DFHRM0304 INVALID OR MISSING SET_AUTO_START PARAMETER.

Explanation: The SET_AUTO_START parameter in the SYSIN data set for DFHRMUTL is missing or incorrectly specified.

System action: The DFHRMUTL job terminates.

User response: Ensure that the parameter is in the *first* line of SYSIN, and the keywords are separated by commas without intervening blanks.

Module: DFHRMUTL

Destination: SYSPRINT

DFHRM0305 SYSIN DATA SET CAN HAVE AT MOST ONE RECORD.

Explanation: The SYSIN data set should contain either no records or else a single record specifying the parameters for DFHRMUTL.

System action: The DFHRMUTL job terminates.

User response: Correct the records in the SYSIN data set and retry.

Module: DFHRMUTL

Destination: SYSPRINT

DFHRM0306 CANNOT COPY A GCD WITH NO CONTROL INFORMATION.

Explanation: The COLD_COPY keyword has been specified for a global catalog data set which has no recovery manager control information in it. It is not possible to create a reduced new catalog from an empty catalog.

System action: The DFHRMUTL job terminates.

User response: You should use COLD_COPY only to copy a catalog that has been used by CICS. To initialize a catalog for an initial start, use DFHRMUTL with the SET_AUTO_START=AUTOINIT parameter without attempting to copy it with COLD_COPY.

Module: DFHRMUTL

Destination: SYSPRINT

DFHRM0307 KEYWORD '*keyword***' IS REPEATED IN THE SYSIN DATA SET.**

Explanation: Keyword *keyword* has been repeated in the first line of the SYSIN data set for DFHRMUTL.

System action: The DFHRMUTL job terminates.

User response: Remove the duplicate keyword and retry.

Module: DFHRMUTL

Destination: SYSPRINT

DFHRM0308 SET_AUTO_START=AUTOASIS INVALID. GCD IS A COLD_COPY AND HAS NOT BEEN USED BY CICS.

Explanation: The keyword SET_AUTO_START specified AUTOASIS, but the global catalog supplied in data set DFHGCD has been copied with the DFHRMUTL COLD_COPY function and has not yet been used by CICS. This change is not allowed because the catalog no longer has the necessary records to allow an emergency or warm start.

System action: The DFHRMUTL job terminates.

User response: If you need to perform an emergency or warm start, use a restored copy of the global catalog taken before the run of DFHRMUTL which performed the COLD_COPY. If you do not need an emergency or warm start, change the parameter to AUTOINIT or AUTOCOLD and retry.

Module: DFHRMUTL

Destination: SYSPRINT

DFHRM0309 GCD HAS NOT BEEN USED BY CICS. YOU MUST SPECIFY SET_AUTO_START=AUTOINIT

Explanation: The keyword SET_AUTO_START specified AUTOCOLD or AUTOINIT, but the global catalog supplied in data set DFHGCD has never been used by CICS.

System action: The DFHRMUTL job terminates.

User response: Change the SET_AUTO_START parameter to AUTOINIT and retry.

Module: DFHRMUTL

Destination: SYSPRINT

DFHRM0311 COLD_COPY KEYWORD INVALID WITH SET_AUTO_START=AUTOASIS.

Explanation: The input parameters specified keyword COLD_COPY, but also contained SET_AUTO_START=AUTOASIS. This combination is not supported because CICS can only perform a COLD or INITIAL start using a catalog data set that has been cold-copied, because all definitional records have been removed.

System action: The DFHRMUTL job terminates.

User response: Either specify AUTOCOLD or AUTOINIT as the SET_AUTO_START value, or remove the COLD_COPY keyword and retry.

Module: DFHRMUTL

Destination: SYSPRINT

DFHRM0312 AUTODIAG WITH COLD_COPY NOT ALLOWED.

Explanation: In the parameters for the DFHRMUTL job the option COLD_COPY was specified with SET_AUTO_START=AUTODIAG. This is not allowed.

System action: The DFHRMUTL job terminates.

User response: Resubmit the job with the correct parameters.

Module: DFHRMUTL

Destination: SYSPRINT

DFHRM0313 AUTODIAG CANNOT BE USED.

Explanation: The keyword SET_AUTO_START specified AUTODIAG, but the global catalog supplied in data set DFHGCD has been copied with the DFHRMUTL COLD_COPY function and has not yet been used by CICS. This change is not allowed because the catalog no longer has the necessary records to allow a diagnostic run.

System action: The DFHRMUTL job terminates.

User response: If you need to perform a diagnostic run, use a restored copy of the global catalog taken before the run of DFHRMUTL which performed the COLD_COPY. If you do not need a diagnostic run then change the parameter to AUTOINIT or AUTOCOLD and retry.

Module: DFHRMUTL

Destination: SYSPRINT

DFHRM0315I AUTOCOLD OR AUTOINIT SHOULD NOT BE USED.

Explanation: This is an informational message.

The global catalog indicates that the previous shutdown of CICS was not controlled (i.e. not a Warm shutdown), or that log information that pertains to shunted Units Of Work (UOWs) is present on the system log. In either case, CICS should not be restarted Cold or Initial, since to do so would threaten data integrity. As such, AUTOCOLD or AUTOINIT should not be specified by the use of the SET_AUTO_START keyword.

System action: The DFHRMUTL job continues.

User response: None.

Module: DFHRMUTL

Destination: SYSPRINT

DFHRM0400 *applid* **A unit of work was incompletely reconstructed from the system log.**

Explanation: A unit of work has been only partially reconstructed from the log records on the system log.

The first log record that the unit of work wrote to the system log was not browsed during CICS restart although processing of the unit of work has not completed its syncpoint processing.

The probable cause is that the primary system log stream has been truncated incorrectly or that the secondary system log stream has been truncated or deleted incorrectly. Alternatively, the data on either log stream may have been corrupted so that the chain representing the unit of work was not completely processed during CICS restart.

These effects may be due to the log stream being modified between CICS runs, problems in the MVS logger, or problems in CICS itself. The most likely cause is that the logstream was deleted or modified between CICS runs. If it was deleted, the CICS logger will have issued a message during the CICS restart reporting that it was creating the logstream.

System action: CICS makes an exception trace entry including the unit of work in which the problem was detected, issues this message, takes a dump, and then terminates abnormally.

Message DFHME0116 should be produced containing the symptom string for this problem.

User response: Ensure that the primary and secondary system logstreams are valid. If a problem can be rectified, auto-start CICS again.

If the problem cannot be rectified, you should perform an initial start of CICS.

If you are certain that the system log streams have not been deleted or modified between CICS runs, there may be an error in the MVS logger or in CICS. In this case, you will need assistance from IBM. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed. It would be helpful to keep the failing logstream or a report of its contents.

Module: DFHRMU1E.

XMEOUT Parameter: *applid*

Destination: Console

DFHRM0401 *applid* **There is no system log or an empty system log has been detected.**

Explanation: An empty system log has been detected on a CICS restart which requires the log for recovery processing. This is unexpected because there should always be one or more log records on the system log when CICS has started previously. Alternatively, there is no CICS system log because DUMMY has been specified in the definition of the log stream, and a start that requires a valid system log has been requested.

The probable cause is that the primary system log stream has been destroyed or cleared incorrectly. The data on the primary log stream may have been corrupted so that the CICS logger could not find any valid records on it. Alternatively, the system log has been defined as a DUMMY log inappropriately.

These effects may be due to the log stream being modified between CICS runs, problems in the MVS logger, or problems in CICS itself. The most likely cause is that the logstream was deleted or emptied between CICS runs. If it was deleted, the CICS logger will have issued a message during the CICS restart reporting that it was creating the logstream.

System action: CICS makes an exception trace entry including the unit of work in which the problem was detected, issues this message, takes a dump, and then terminates abnormally.

Message DFHME0116 should be produced containing the symptom string for this problem.

User response: Ensure that the primary system logstream is valid, and that it is not defined as DUMMY. If the problem can be rectified, start CICS again in the same way.

If the problem cannot be rectified, perform an initial start of CICS.

If you are certain that the system log streams have not been deleted or modified between CICS runs, there may be an error in the MVS logger or in CICS. In this case, you will need assistance from IBM. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed. It would be helpful to keep the failing logstream or a report of its contents.

Module: DFHRMSL5

XMEOUT Parameter: *applid*

Destination: Console

DFHRM0402 *date time applid* **UOWID:***X'luowid'* **found.**

Explanation: The system log is being read to recover and resolve the inflight, indoubt, commit-failed and backout-failed units of work. A record has been read that is the first evidence of the identified unit of work.

System action: The recovery processing continues. When CICS has encountered all the records related to this unit of work, then it will issue either a DFHRM0403 or DFHRM0404 message that will signal if further processing is required to resolve the unit of work or if the unit of work is complete and requires no further processing. Message DFHME0116 should be produced containing the symptom string for this problem.

User response: None.

Module: DFHRMU1D

XMEOUT Parameters: *date, time, applid, X'luowid'*

Destination: CSMT

DFHRM0403 *date time applid* **UOWID:***X'luowid'* **recovered for resolution, current status:***uowstatus***, tasknum:***tasknum***, tranid:***tranid***, Net UOWID:***networkuowid*

Explanation: The system log is being read to recover and resolve the inflight, indoubt, commit-failed or backout-failed units of work. All the records related to the identified unit of work have been read. This unit of work was found to be inflight, indoubt, commit-failed or backout-failed, and so further processing is required to resolve it.

There will be a matching DFHRM0402 message issued earlier during the recovery processing for the same unit of work.

System action: The recovery processing continues. When recovery processing is complete CICS will process this unit of work to ensure its resolution. Message DFHME0116 should be produced containing the symptom string for this problem.

User response: None.

Module: DFHRMU1D

XMEOUT Parameters: *date, time, applid, X'luowid',*

uowstatus, tasknum, tranid, networkuowid

Destination: CSMT

DFHRM0404 *date time applid* **UOWID:***X'luowid'* **is resolved, status:***uowstatus***, tasknum:***tasknum***, tranid:***tranid***, Net UOWID:***networkuowid*

Explanation: The system log is being read to recover and resolve the inflight, indoubt, commit-failed and backout-failed units of work. All the records on the log related to the identified unit of work have been read. This unit of work was found to have been completed and it requires no further processing.

There will be a matching DFHRM0402 message issued earlier during the recovery processing for the same unit of work.

System action: The recovery processing continues. Message DFHME0116 should be produced containing the symptom string for this problem.

User response: None.

Module: DFHRMU1D

XMEOUT Parameters: *date, time, applid, X'luowid', uowstatus, tasknum, tranid, networkuowid*

Destination: CSMT

DFHRM0405 *date time applid* **Keypoint recovered. All relevant UOWs have been identified. Scan continuing for full recovery.**

Explanation: A complete set of keypoint records has been recovered from the system log. CICS ensures that all active units of work write at least one record into the keypoint. This means that during the recovery process, once a complete keypoint has been recovered, then there are no inflight, indoubt, commit-failed or backout-failed units of work that remain to be discovered on the system log. DFHRM0402 messages will have been issued identifying all the units of work that potentially need resolving.

System action: The system recovery process continues. Message DFHME0116 should be produced containing the symptom string for this problem.

User response: None.

Module: DFHRMU1D

XMEOUT Parameters: *date, time, applid*

Destination: CSMT

DFHRPnnnn messages

DFHRP0001 *applid* **An abend (code** *aaa/bbbb***) has occurred at offset** *X'offset'* **in module** *modname***.**

Explanation: An abnormal end (abend) or program check has occurred in module *modname*. This implies that there may be an error in the CICS code. Alternatively, unexpected data has been input, or storage has been overwritten.

The code *aaa/bbbb* is a 3-digit hexadecimal MVS code (if applicable), followed by a 4-digit alphanumeric CICS code. The MVS code is a system completion code (for example, 0C1 or D37). If an MVS code is not applicable, this field is filled with three hyphens. The CICS code is an abend code or a number referring to a CICS message (for example, AKEA is a CICS abend code; 1310 refers to message DFHTS1310).

System action: An exception entry is made in the trace table. A system dump is taken, unless you have specifically suppressed dumps in the dump table.

CICS continues unless you have specified in the dump table that CICS should terminate. If appropriate, an error return code is sent to the caller of this domain. In this case CICS could be terminated by the caller (for example, the domain manager, DFHDMDM). A message is issued to this effect.

Message DFHME0116 should be produced containing the symptom string for this problem.

User response: Notify the system programmer. If CICS is still running, it is necessary to decide whether to terminate CICS.

Look up the MVS code, if there is one, in the relevant MVS codes manual.

Next, look up the CICS alphanumeric code. This tells you, for example, whether the error was a program check, an abend, or a runaway, and may give you some guidance concerning user response.

If module *modname* is not crucial to the running of your CICS system, you may decide to continue to run and bring CICS down at a convenient time to resolve the problem. If you cannot run without the full use of module *modname* you should bring CICS down in a controlled shutdown.

You need further assistance from IBM to resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHRPRP

XMEOUT Parameters: *applid, aaa/bbbb, X'offset', modname*

Destination: Console

DFHRP0002 *applid* **A severe error (code** *X'code'***) has occurred in module** *modname***.**

Explanation: An error has been detected in module

modname. The code X'*code* is the exception trace point ID, which gives an indication of the cause of the error:
- 9F49—error in the C environment
- 9F4A—no storage for the RPC caller
- 9F4C—error from **socket** call to z/OS Communications Server
- 9F4D—error from **gethostid** call to z/OS Communications Server
- 9F4F—error from **select** call to z/OS Communications Server
- 9F55—error from **svc_register** call to z/OS Communications Server
- 9F58—error from **svcudp_create** call to z/OS Communications Server
- 9F59—error from **svctcp_create** call to z/OS Communications Server
- 9F5B—error from **svc_sendreply** call to z/OS Communications Server
- 9F5C—invalid **aup_gids** from client
- 9F5D—machine name from client too long
- 9F5E—error from **svc_getargs** call to z/OS Communications Server
- 9F5F—error from **svc_freeargs** call to z/OS Communications Server
- 9F60—error from **getsockopt** call to z/OS Communications Server
- 9F63—error from **maxdesc** call to z/OS Communications Server (unknown error)
- 9F64—error from **maxdesc** call to z/OS Communications Server (not enough sockets)
- 9F65—error from **maxdesc** call to z/OS Communications Server (EFAULT)
- 9F66—error from **maxdesc** call to z/OS Communications Server (EALREADY)
- 9F67—error from **maxdesc** call to z/OS Communications Server (EINVAL)
- 9F68—error from **maxdesc** call to z/OS Communications Server (EMFILE)
- 9F69—error from **maxdesc** call to z/OS Communications Server (ENOMEM)
- 9F6A—error from **maxdesc** call to z/OS Communications Server (EIBMIUCVERR)
- 9F6B—error from **svcerr_auth** call to z/OS Communications Server
- 9F6C—error from **svcerr_decode** call to z/OS Communications Server
- 9F6D—error from **svcerr_noproc** call to z/OS Communications Server
- 9F6E—error from **svcerr_systemerr** call to z/OS Communications Server
- 9F6F—error from **dfhsvc_getreqset**.

System action: An exception entry (code X'*code* in the message) is made in the trace table. A system dump is taken, unless you have specifically suppressed dumps in the dump table. If a client request is being processed, and the code is 9F4A, no reply is sent to the client.

Message DFHME0116 should be produced containing the symptom string for this problem.

User response: There are some specific user actions that can be taken for certain values of *code*:
- 9F4A—Retry the current action if possible. If the shortage of storage persists, reduce the number of tasks that can run concurrently, or increase the DSA limits.
- 9F49—Check that the C run-time environment is derived from the same product, version, and release as was used for link-editing at installation time.
- 9F5C—Check the z/OS Communications Server configuration and release level.
- 9F5D—Check the z/OS Communications Server configuration and release level.
- 9F6A—Check that z/OS Communications Server has been started.

:pc.For other z/OS Communications Server problems, look at the z/OS Communications Server diagnostics.

You may need further assistance from IBM to resolve this problem. See the *CICS External Interfaces Guide* and Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHRPRP

XMEOUT Parameters: *applid, X'code', modname*

Destination: Console

DFHRP0102 *date time applid tranid* **A CICS ONC RPC alias has received an incorrect response on a call made to CICS during alias initialization.**

Explanation: The alias has received a response that indicates a logic error in the alias while calling CICS to establish its initialization information.

System action: The client request is abandoned, and no reply is sent to the client. A system dump is taken. The alias abends with abend code ARPK. Message DFHME0116 should be produced containing the symptom string for this problem.

User response: See the associated CICS messages for problem diagnosis.

Module: DFHRPAS

XMEOUT Parameters: *date, time,applid, tranid*

Destination: CRPO

DFHRP0103 *date time applid tranid* **A CICS ONC RPC alias has been started incorrectly.**

Explanation: The alias has been invoked by a means other than the server controller, possibly by a user at a terminal.

System action: There was no client request to process. The alias abends with abend code ARPF.

User response: Check that the alias was not started by a terminal user.

Module: DFHRPAS

XMEOUT Parameters: *date, time,applid, tranid*

Destination: CRPO

DFHRP0104 *date time applid tranid* **A CICS ONC RPC alias has received an incorrect response on a call made to CICS during alias initialization.**

Explanation: The alias has received a response while calling CICS to establish its initialization information that indicates that the alias may not have been started by server controller.

System action: There is no client request to process. The alias abends with abend code ARPF.

User response: Check that the alias has not been started by a means other than the server controller.

Module: DFHRPAS

XMEOUT Parameters: *date, time,applid, tranid*

Destination: CRPO

DFHRP0105 *date time applid tranid* **A CICS ONC RPC alias has received an incorrect response on a call made to CICS during alias initialization.**

Explanation: The alias has received a response that indicates that CICS has experienced a temporary error while trying to pass the alias its initialization information from temporary storage.

System action: The client request is abandoned, and no reply is sent to the client. The alias abends with abend code ARPJ.

User response: See the associated CICS messages for problem diagnosis.

Module: DFHRPAS

XMEOUT Parameters: *date, time,applid, tranid*

Destination: CRPO

DFHRP0106 *date time applid tranid* **A CICS ONC RPC alias has received an incorrect response on a call made to CICS during alias initialization.**

Explanation: The alias cannot find its initialization information in CICS temporary storage. This is probably due to the retrieval of data from temporary storage by another application.

System action: The client request is abandoned, and no reply is sent to the client. The alias abends with abend code ARPF.

User response: Check that no other application is using the same temporary storage queue as the alias.

Module: DFHRPAS

XMEOUT Parameters: *date, time,applid, tranid*

Destination: CRPO

DFHRP0107 *date time applid tranid* **A CICS ONC RPC alias has received an incorrect response on a call made to CICS during alias initialization.**

Explanation: The alias has received a response that indicates a logic error in the alias while calling CICS to establish its initialization information.

System action: The client request is abandoned, and no reply is sent to the client. A system dump is taken. The alias abends with abend code ARPI. Message DFHME0116 should be produced containing the symptom string for this problem.

User response: See the associated CICS messages for problem diagnosis.

Module: DFHRPAS

XMEOUT Parameters: *date, time,applid, tranid*

Destination: CRPO

DFHRP0108 *date time applid tranid* **A CICS ONC RPC alias has been started incorrectly.**

Explanation: The alias has detected an error while validating its initialization information. This probably means that the alias has been started by a means other than the server controller.

System action: There was no client request to process. The alias abends with abend code ARPF.

User response: Check that the alias was not started by a transient data trigger level or by a CECI user.

Module: DFHRPAS

XMEOUT Parameters: *date, time,applid, tranid*

Destination: CRPO

DFHRP0113 *date time applid tranid* **A CICS ONC RPC alias is unable to continue processing because the corresponding alias list entry has been deleted. Client IP address:** *clientaddr* **Host IP address:** *hostaddr* **Program:** *X'prognum'* **Version** *X'versnum'* **Procedure:** *X'procnum'* **Protocol:** *protocol* **Port:** *X'port'* **Socket:** *X'socket'***.**

Explanation: The alias has attempted to update its alias list entry to indicate that it has successfully started. The alias list component has returned a NOT FOUND response.

System action: An **svcerr_systemerr** call is used to send a reply to the client. The alias abends with abend code ARPF.

User response: This situation is almost certainly due to an alias starting after immediate disable of CICS ONC RPC or after its alias list entry has been explicitly deleted by the connection manager.

Module: DFHRPAS

XMEOUT Parameters: *date, time,applid, tranid, clientaddr, hostaddr, X'prognum', X'versnum', X'procnum', protocol, X'port', X'socket'*

Destination: CRPO

DFHRP0114 *date time applid tranid* **A CICS ONC RPC alias is unable to continue processing because it is unable to update the corresponding alias list entry. Client IP address:** *clientaddr* **Host IP address:** *hostaddr* **Program:** *X'prognum'* **Version:** *X'versnum'* **Procedure:** *X'procnum'* **Protocol:** *protocol* **Port:** *X'port'* **Socket:** *X'socket'***.**

Explanation: The alias has attempted to update its alias list entry to indicate that it has successfully started. The alias list component has returned an error response other than NOT FOUND. This is due to an error in another component of CICS.

System action: An **svcerr_systemerr** call is used to send a reply to the client. The alias abends with abend code ARPJ.

User response: Proceed as indicated in the messages issued by the CICS component in error.

Module: DFHRPAS

XMEOUT Parameters: *date, time,applid, tranid, clientaddr, hostaddr, X'prognum', X'versnum', X'procnum', protocol, X'port', X'socket'*

Destination: CRPO

DFHRP0118 *date time applid tranid* **A CICS ONC RPC alias is unable to continue processing this client request. Client IP address** *clientaddr* **Host IP address:** *hostaddr* **Program** *X'prognum'* **Version:** *X'versnum'* **Procedure:** *X'procnum'* **Protocol:** *protocol* **Port:** *port* **Socket** *socket***.**

Explanation: The alias has detected that CICS ONC RPC may have been disabled since this client request was scheduled by the server controller. This is indicated by an incorrect reference to the GWA used by CICS ONC RPC.

System action: The client request is abandoned, and no reply is sent to the client. The alias abends with abend code ARPH.

User response: Check that CICS ONC RPC has not been disabled since this client request was first scheduled. This problem may arise when long-running CICS programs are being used. It may also occur if CICS ONC RPC is disabled and immediately re-enabled.

Module: DFHRPAS

XMEOUT Parameters: *date, time,applid, tranid, clientaddr, hostaddr, X'prognum', X'versnum', X'procnum', protocol, port, socket*

Destination: CRPO

DFHRP0119 *date time applid tranid* **A CICS ONC RPC alias is unable to continue processing because it cannot authenticate this client request. Client IP address:** *clientaddr* **Host IP address** *hostaddr* **Program:** *X'prognum'* **Version:** *X'versnum'* **Procedure:** *X'procnum'* **Protocol:** *protocol* **Port:** *port* **Socket:** *socket***.**

Explanation: The alias has detected an error with the response returned from the external security manager while attempting to authenticate this client request.

System action: An **svcerr_systemerr** call is used to send a reply to the client. The alias abends with abend code ARPJ.

User response: Check that the external security manager is still available.

Module: DFHRPAS

XMEOUT Parameters: *date, time,applid, tranid, clientaddr, hostaddr, X'prognum', X'versnum', X'procnum', protocol, port, socket*

Destination: CRPO

DFHRP0120 *date time applid tranid* **A CICS ONC RPC alias is unable to continue processing because this client request is not authenticated. Client IP address:** *clientaddr* **Host IP address** *hostaddr* **Program:** *X'prognum'* **Version:** *X'versnum'* **Procedure:** *X'procnum'* **Protocol:** *protocol* **Port:** *port* **Socket:** *socket***.**

Explanation: The alias has received a response while authenticating the userid and password associated with this client request which indicates that this client request is not authenticated to CICS.

System action: An **svcerr_auth** call with a why-value of AUTH_TOOWEAK is used to send a reply to the client. The alias abends with abend code ARPL.

User response: Check the userid/password combination associated with this client request. See the associated CICS messages relating to the security error for help with problem diagnosis.

Module: DFHRPAS

XMEOUT Parameters: *date, time,applid, tranid, clientaddr, hostaddr, X'prognum', X'versnum', X'procnum', protocol, port, socket*

Destination: CRPO

DFHRP0121 *date time applid tranid* **A CICS ONC RPC alias is unable to continue processing because it cannot authenticate this client request. Client IP address:** *clientaddr* **Host IP address** *hostaddr* **Program:** *X'prognum'* **Version:** *X'versnum'* **Procedure:** *X'procnum'* **Protocol:** *protocol* **Port:** *port* **Socket:** *socket***.**

Explanation: The alias has received a response while authenticating the userid and password associated with this client request which indicates that the external security manager does not recognize the userid.

System action: An **svcerr_auth** call with a why-value of AUTH_TOOWEAK is used to send a reply to the client. The alias abends with abend code ARPG.

User response: Check the userid associated with this client request. See the associated CICS messages relating to the security error for help with problem diagnosis.

Module: DFHRPAS

XMEOUT Parameters: *date, time,applid, tranid, clientaddr, hostaddr, X'prognum', X'versnum', X'procnum', protocol, port, socket*

Destination: CRPO

DFHRP0122 *date time applid tranid* **A CICS ONC RPC alias is unable to continue processing this client request. Client IP address** *clientaddr* **Host IP address:** *hostaddr* **Program** *X'prognum'* **Version:** *X'versnum'* **Procedure:** *X'procnum'* **Protocol:** *protocol* **Port:** *port* **Socket** *socket***.**

Explanation: The alias has encountered an internal error while authenticating the userid and password associated with this client request.

System action: An **svcerr_systemerr** call is used to send a reply to the client. A system dump is taken. The alias abends with abend code ARPK. Message DFHME0116 should be produced containing the symptom string for this problem.

User response: You need further assistance from IBM to resolve this problem. See the *CICS External Interfaces Guide* and Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed. Report the details of the symptom string given in message DFHME0116. It will aid problem determination.

Module: DFHRPAS

XMEOUT Parameters: *date, time,applid, tranid, clientaddr, hostaddr, X'prognum', X'versnum', X'procnum', protocol, port, socket*

Destination: CRPO

DFHRP0123 *date time applid tranid* **A CICS ONC RPC alias is unable to continue processing this client request. Client IP address** *clientaddr* **Host IP address:** *hostaddr* **Program** *X'prognum'* **Version:** *X'versnum'* **Procedure:** *X'procnum'* **Protocol:** *protocol* **Port:** *port* **Socket** *socket***.**

Explanation: The alias has detected a temporary error in the remote CICS region while communicating with the resource checker.

System action: An **svcerr_systemerr** call is used to send a reply to the client. The alias abends with abend code ARPJ.

User response: Investigate the error in the remote CICS region.

Module: DFHRPAS

XMEOUT Parameters: *date, time,applid, tranid, clientaddr, hostaddr, X'prognum', X'versnum', X'procnum', protocol, port, socket*

Destination: CRPO

DFHRP0124 *date time applid tranid* **A CICS ONC RPC alias is unable to continue processing this client request. Client IP address** *clientaddr* **Host IP address:** *hostaddr* **Program** *X'prognum'* **Version:** *X'versnum'* **Procedure:** *X'procnum'* **Protocol:** *protocol* **Port:** *port* **Socket** *socket***.**

Explanation: The alias has encountered an internal error while trying to link to the resource checker.

System action: An **svcerr_systemerr** call is used to send a reply to the client. A system dump is taken. The alias abends with abend code ARPI. Message DFHME0116 should be produced containing the symptom string for this problem.

User response: You need further assistance from IBM to resolve this problem. See the *CICS External Interfaces Guide* and Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed. Report the details of the symptom string given in message DFHME0116. It will aid problem determination.

Module: DFHRPAS

XMEOUT Parameters: *date, time,applid, tranid, clientaddr, hostaddr, X'prognum', X'versnum', X'procnum', protocol, port, socket*

Destination: CRPO

DFHRP0125 *date time applid tranid* **A CICS ONC RPC alias is unable to continue processing as it cannot link to the resource checker** *program*. **Client IP address:** *clientaddr* **Host IP address:** *hostaddr* **Program:** *X'prognum'* **Version** *X'versnum'* **Procedure:** *X'procnum'* **Protocol:** *protocol* **Port:** *port* **Socket:** *socket*.

Explanation: The alias has received a response while trying to link to the resource checker which indicates that it is not defined to CICS.

System action: An **svcerr_systemerr** call is used to send a reply to the client. The alias abends with abend code ARPG.

User response: Check that the resource checker is defined to CICS.

Module: DFHRPAS

XMEOUT Parameters: *date, time,applid, tranid, program, clientaddr, hostaddr, X'prognum', X'versnum', X'procnum', protocol, port, socket*

Destination: CRPO

DFHRP0126 *date time applid tranid* **A CICS ONC RPC alias is unable to continue processing as it cannot link to the resource checker** *program*. **Client IP address:** *clientaddr* **Host IP address:** *hostaddr* **Program:** *X'prognum'* **Version** *X'versnum'* **Procedure:** *X'procnum'* **Protocol:** *protocol* **Port:** *port* **Socket:** *socket*.

Explanation: The alias has received a response while trying to link to the resource checker that indicates that the remote system on which the program resides is not defined or available to CICS.

System action: An **svcerr_systemerr** call is used to send a reply to the client. The alias abends with abend code ARPG.

User response: Ensure that the remote CICS region in which the resource checker resides is defined to CICS. If it is, check that the connection is available for use by CICS.

Module: DFHRPAS

XMEOUT Parameters: *date, time,applid, tranid, program, clientaddr, hostaddr, X'prognum', X'versnum', X'procnum', protocol, port, socket*

Destination: CRPO

DFHRP0127 *date time applid tranid* **A CICS ONC RPC alias is unable to continue processing this client request. Client IP address** *clientaddr* **Host IP address:** *hostaddr* **Program** *X'prognum'* **Version:** *X'versnum'* **Procedure:** *X'procnum'* **Protocol:** *protocol* **Port:** *port* **Socket** *socket*.

Explanation: The alias has detected a rollback in the resource checker in a remote CICS region.

System action: An **svcerr_systemerr** call is used to send a reply to the client. The alias abends with abend code ARPJ.

User response: Investigate the problem in the remote CICS region You should consider changing the resource checker so that it does not update any CICS recoverable resources because this is not its primary design intent. Retry the client request.

Module: DFHRPAS

XMEOUT Parameters: *date, time,applid, tranid, clientaddr, hostaddr, X'prognum', X'versnum', X'procnum', protocol, port, socket*

Destination: CRPO

DFHRP0128 *date time applid tranid* **A CICS ONC RPC alias is unable to continue processing because it cannot link to the resource checker** *program*. **Client IP address:** *clientaddr* **Host IP address:** *hostaddr* **Program:** *X'prognum'* **Version** *X'versnum'* **Procedure:** *X'procnum'* **Protocol:** *protocol* **Port:** *port* **Socket:** *socket*.

Explanation: The alias has received a response while trying to link to the resource checker that indicates that it is not authorized to do so. This error has occurred because either the local alias transaction has been defined with RESSEC=YES, or the resource checker is in a remote CICS region and the mirror transaction in the remote region is defined with RESSEC=YES.

System action: An **svcerr_systemerr** call is used to send a reply to the client. The alias abends with abend code ARPG.

User response: If the alias or mirror transaction must run with RESSEC=YES, add a profile to the external security manager that allows users to access the resource checker. If you do not require resource level security in the CICS program, set RESSEC=NO in the alias or mirror transaction definition.

Module: DFHRPAS

XMEOUT Parameters: *date, time,applid, tranid, program, clientaddr, hostaddr, X'prognum', X'versnum', X'procnum', protocol, port, socket*

Destination: CRPO

DFHRP0129 *date time applid tranid* **A CICS ONC RPC alias is unable to continue processing this client request. Client IP address** *clientaddr* **Host IP address:** *hostaddr* **Program** *X'prognum'* **Version:** *X'versnum'* **Procedure:** *X'procnum'* **Protocol:** *protocol*

Port: *port* **Socket** *socket*.

Explanation: The alias has received an incorrect response from CICS while trying to link to the resource checker.

System action: An **svcerr_systemerr** call is used to send a reply to the client. A system dump is taken. The alias abends with abend code ARPK. Message DFHME0116 should be produced containing the symptom string for this problem.

User response: You need further assistance from IBM to resolve this problem. See the *CICS External Interfaces Guide* and Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed. Report the details of the symptom string given in message DFHME0116. It will aid problem determination.

Module: DFHRPAS

XMEOUT Parameters: *date, time,applid, tranid, clientaddr, hostaddr, X'prognum', X'versnum', X'procnum', protocol, port, socket*

Destination: CRPO

DFHRP0130 *date time applid tranid* **A CICS ONC RPC alias is unable to continue processing. The resource checker has rejected this client request. Response:** *response* **Reason:** *reason*. **Client IP address:** *clientaddr* **Host IP address** *hostaddr* **Program:** *X'prognum'* **Version:** *X'versnum'* **Procedure:** *X'procnum'* **Protocol:** *protocol* **Port:** *port* **Socket:** *socket*.

Explanation: The resource checker has returned the response and reason codes *response* and *reason*. This client request is not authorized to continue.

System action: An **svcerr_auth** call with a why-value of AUTH_BADCRED is used to send a reply to the client. The alias abends with abend code ARPL.

User response: Determine from the resource checker the meaning of the response and reason codes, and amend the program if necessary.

Module: DFHRPAS

XMEOUT Parameters: *date, time,applid, tranid, response, reason, clientaddr, hostaddr, X'prognum', X'versnum', X'procnum', protocol, port, socket*

Destination: CRPO

DFHRP0131 *date time applid tranid* **A CICS ONC RPC alias is unable to continue processing this client request as it cannot query the authorization of the CICS program** *program*. **EIBRESP2** *eibresp2* **Client IP address:** *clientaddr* **Host IP address:** *hostaddr* **Program:** *X'prognum'* **Version** *X'versnum'* **Procedure:** *X'procnum'* **Protocol:** *protocol* **Port:** *port* **Socket:** *socket*.

Explanation: The alias issued an EXEC CICS QUERY SECURITY command for the CICS program *program*, but received an INVREQ response.

System action: An **svcerr_systemerr** call is used to send a reply to the client. The alias abends with abend code ARPG.

User response: Use the EIBRESP2 value to determine the exact cause of the problem.

Module: DFHRPAS

XMEOUT Parameters: *date, time,applid, tranid, program, eibresp2, clientaddr, hostaddr, X'prognum', X'versnum', X'procnum', protocol, port, socket*

Destination: CRPO

DFHRP0132 *date time applid tranid* **A CICS ONC RPC alias is unable to continue processing this client request as it cannot query the authorization of the CICS program** *program*. **EIBRESP2** *eibresp2* **Client IP address:** *clientaddr* **Host IP address:** *hostaddr* **Program:** *X'prognum'* **Version** *X'versnum'* **Procedure:** *X'procnum'* **Protocol:** *protocol* **Port:** *port* **Socket:** *socket*.

Explanation: The alias issued an EXEC CICS QUERY SECURITY command for the CICS program *program*, but received a NOTFND response.

System action: An **svcerr_systemerr** call is used to send a reply to the client. The alias abends with abend code ARPG.

User response: Use the EIBRESP2 value to determine the exact cause of the problem.

Module: DFHRPAS

XMEOUT Parameters: *date, time,applid, tranid, program, eibresp2, clientaddr, hostaddr, X'prognum', X'versnum', X'procnum', protocol, port, socket*

Destination: CRPO

DFHRP0133 *date time applid tranid* **A CICS ONC RPC alias is unable to continue processing this client request. Client IP address** *clientaddr* **Host IP address:** *hostaddr* **Program** *X'prognum'* **Version:** *X'versnum'* **Procedure:** *X'procnum'* **Protocol:** *protocol* **Port:** *port* **Socket** *socket*.

Explanation: The alias has received an incorrect response on a call to CICS while trying to test the authorization level of the client.

System action: An **svcerr_systemerr** call is used to send a reply to the client. A system dump is taken. The alias abends with abend code ARPI. Message DFHME0116 should be produced containing the

symptom string for this problem.

User response: You need further assistance from IBM to resolve this problem. See the *CICS External Interfaces Guide* and Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed. Report the details of the symptom string given in message DFHME0116. It will aid problem determination.

Module: DFHRPAS

XMEOUT Parameters: *date, time,applid, tranid, clientaddr, hostaddr, X'prognum', X'versnum', X'procnum', protocol, port, socket*

Destination: CRPO

DFHRP0134 *date time applid tranid* **A CICS ONC RPC alias is unable to continue processing this client request because the client is not authorized to access the CICS program** *program***. Client IP address:** *clientaddr* **Host IP address:** *hostaddr* **Program** *X'prognum'* **Version:** *X'versnum'* **Procedure:** *X'procnum'* **Protocol:** *protocol* **Port:** *port* **Socket** *socket***.**

Explanation: The alias has rejected this client request because the client is not authorized to access the CICS program *program*.

System action: An **svcerr_auth** call with a why-value of AUTH_TOOWEAK is used to send a reply to the client. The alias abends with abend code ARPL.

User response: None

Module: DFHRPAS

XMEOUT Parameters: *date, time,applid, tranid, program, clientaddr, hostaddr, X'prognum', X'versnum', X'procnum', protocol, port, socket*

Destination: CRPO

DFHRP0135 *date time applid tranid* **A CICS ONC RPC alias is unable to continue processing this client request. Client IP address** *clientaddr* **Host IP address:** *hostaddr* **Program** *X'prognum'* **Version:** *X'versnum'* **Procedure:** *X'procnum'* **Protocol:** *protocol* **Port:** *port* **Socket** *socket***.**

Explanation: The alias has detected an internal arithmetic error with the parameters passed by the server controller while processing this client request and is unable to link to the CICS program.

System action: The client request is abandoned, and a SYSTEMERR reply is sent to the client. A system dump is taken. The alias abends with abend code ARPI. Message DFHME0116 should be produced containing the symptom string for this problem.

User response: You need further assistance from IBM to resolve this problem. See the *CICS External Interfaces Guide* and Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed. Report the details of the symptom string given in message DFHME0116. It will aid problem determination.

Module: DFHRPAS

XMEOUT Parameters: *date, time,applid, tranid, clientaddr, hostaddr, X'prognum', X'versnum', X'procnum', protocol, port, socket*

Destination: CRPO

DFHRP0136 *date time applid tranid* **A CICS ONC RPC alias is unable to continue processing this client request. Client IP address** *clientaddr* **Host IP address:** *hostaddr* **Program** *X'prognum'* **Version:** *X'versnum'* **Procedure:** *X'procnum'* **Protocol:** *protocol* **Port:** *port* **Socket** *socket***.**

Explanation: The alias has detected a temporary error in the remote CICS region while communicating with the CICS program.

System action: An **svcerr_systemerr** call is used to send a reply to the client. The alias abends with abend code ARPJ.

User response: Investigate the problem in the remote CICS region.

Module: DFHRPAS

XMEOUT Parameters: *date, time,applid, tranid, clientaddr, hostaddr, X'prognum', X'versnum', X'procnum', protocol, port, socket*

Destination: CRPO

DFHRP0137 *date time applid tranid* **A CICS ONC RPC alias is unable to continue processing this client request. Client IP address** *clientaddr* **Host IP address:** *hostaddr* **Program** *X'prognum'* **Version:** *X'versnum'* **Procedure:** *X'procnum'* **Protocol:** *protocol* **Port:** *port* **Socket** *socket***.**

Explanation: The alias has encountered an internal error while trying to link to the CICS program.

System action: An **svcerr_systemerr** call is used to send a reply to the client. A system dump is taken. The alias abends with abend code ARPI. Message DFHME0116 should be produced containing the symptom string for this problem.

User response: You need further assistance from IBM to resolve this problem. See the *CICS External Interfaces Guide* and Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed. Report the details of the symptom string given in message DFHME0116. It will aid problem determination.

Module: DFHRPAS

XMEOUT Parameters: *date, time,applid, tranid, clientaddr, hostaddr, X'prognum', X'versnum', X'procnum', protocol, port, socket*

Destination: CRPO

DFHRP0138 *date time applid tranid* **A CICS ONC RPC alias is unable to continue processing as it cannot link to the CICS program** *program***. Client IP address:** *clientaddr* **Host IP address:** *hostaddr* **Program:** *X'prognum'* **Version** *X'versnum'* **Procedure:** *X'procnum'* **Protocol:** *protocol* **Port:** *port* **Socket:** *socket***.**

Explanation: The alias has received a response while trying to link to the CICS program *program* that indicates that the program is not defined to CICS.

System action: An **svcerr_systemerr** call is used to send a reply to the client. The alias abends with abend code ARPG.

User response: Check that the CICS program is defined to CICS.

Module: DFHRPAS

XMEOUT Parameters: *date, time,applid, tranid, program, clientaddr, hostaddr, X'prognum', X'versnum', X'procnum', protocol, port, socket*

Destination: CRPO

DFHRP0139 *date time applid tranid* **A CICS ONC RPC alias is unable to continue processing as it cannot link to the CICS program** *program***. Client IP address:** *clientaddr* **Host IP address:** *hostaddr* **Program:** *X'prognum'* **Version** *X'versnum'* **Procedure:** *X'procnum'* **Protocol:** *protocol* **Port:** *port* **Socket:** *socket***.**

Explanation: The alias has received a response while trying to link to the CICS program *program* that indicates that the remote system in which the program resides is not defined or is not available to CICS.

System action: An **svcerr_systemerr** call is used to send a reply to the client. The alias abends with abend code ARPG.

User response: Ensure that the remote CICS region in which the server program resides is defined to CICS. If it is, ensure that the connection is available for use by CICS.

Module: DFHRPAS

XMEOUT Parameters: *date, time,applid, tranid, program, clientaddr, hostaddr, X'prognum', X'versnum', X'procnum', protocol, port, socket*

Destination: CRPO

DFHRP0140 *date time applid tranid* **A CICS ONC RPC alias is unable to continue processing this client request. Client IP address** *clientaddr* **Host IP address:** *hostaddr* **Program** *X'prognum'* **Version:** *X'versnum'* **Procedure:** *X'procnum'* **Protocol:** *protocol* **Port:** *port* **Socket** *socket***.**

Explanation: The alias has detected a rollback in the CICS program in the remote CICS region.

System action: An **svcerr_systemerr** call is used to send a reply to the client. The alias abends with abend code ARPJ.

User response: Investigate why the CICS program rolled back.

Module: DFHRPAS

XMEOUT Parameters: *date, time,applid, tranid, clientaddr, hostaddr, X'prognum', X'versnum', X'procnum', protocol, port, socket*

Destination: CRPO

DFHRP0141 *date time applid tranid* **A CICS ONC RPC alias is unable to continue processing as it cannot link to the CICS program** *program***. Client IP address:** *clientaddr* **Host IP address:** *hostaddr* **Program:** *X'prognum'* **Version** *X'versnum'* **Procedure:** *X'procnum'* **Protocol:** *protocol* **Port:** *port* **Socket:** *socket***.**

Explanation: The alias has received a response while trying to link to the CICS program *program* that indicates that it is not authorized to do so.

System action: An **svcerr_systemerr** call is used to send a reply to the client. The alias abends with abend code ARPG.

User response: If the CICS program must run with resource level security, add a profile to the external security manager that grants access to the CICS program to its clients. If you do not require resource level security in the CICS program, set RESSEC=NO in the alias or mirror transaction definition.

Module: DFHRPAS

XMEOUT Parameters: *date, time,applid, tranid, program, clientaddr, hostaddr, X'prognum', X'versnum', X'procnum', protocol, port, socket*

Destination: CRPO

DFHRP0142 *date time applid tranid* **A CICS ONC RPC alias is unable to continue processing this client request. Client IP address** *clientaddr* **Host IP address:** *hostaddr* **Program** *X'prognum'* **Version:** *X'versnum'* **Procedure:** *X'procnum'* **Protocol:** *protocol* **Port:** *port* **Socket** *socket***.**

Explanation: The alias has received an incorrect response from CICS while trying to link to the CICS program.

System action: An **svcerr_systemerr** call is used to send a reply to the client. The alias abends with abend code ARPK. Message DFHME0116 should be produced containing the symptom string for this problem.

User response: You need further assistance from IBM to resolve this problem. See the *CICS External Interfaces Guide* and Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed. Report the details of the symptom string given in message DFHME0116. It will aid problem determination.

Module: DFHRPAS

XMEOUT Parameters: *date, time,applid, tranid, clientaddr, hostaddr, X'prognum', X'versnum', X'procnum', protocol, port, socket*

Destination: CRPO

DFHRP0143 *date time applid tranid* **A CICS ONC RPC alias is unable to continue processing this client request. Client IP address** *clientaddr* **Host IP address:** *hostaddr* **Program** *X'prognum'* **Version:** *X'versnum'* **Procedure:** *X'procnum'* **Protocol:** *protocol* **Port:** *port* **Socket** *socket***.**

Explanation: The alias has encountered an internal error and cannot determine how to send a reply to the client. The CICS program has run successfully, and may have updated CICS resources.

System action: An **svcerr_systemerr** call is used to send a reply to the client. A system dump is taken. The alias abends with abend code ARPI. Message DFHME0116 should be produced containing the symptom string for this problem.

User response: You need further assistance from IBM to resolve this problem. See the *CICS External Interfaces Guide* and Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed. Report the details of the symptom string given in message DFHME0116. It will aid problem determination.

Module: DFHRPAS

XMEOUT Parameters: *date, time,applid, tranid, clientaddr, hostaddr, X'prognum', X'versnum', X'procnum', protocol, port, socket*

Destination: CRPO

DFHRP0144 *date time applid tranid* **A CICS ONC RPC alias is unable to send a reply to the client because of a length error.**

Explanation: The alias is unable to send a reply to client because the communication area length is zero, but the client was expecting data to be sent in the reply.

System action: The client request is abandoned, and no reply is sent to the client. A system dump is taken. The alias abends with abend code ARPI. Message DFHME0116 should be produced containing the symptom string for this problem.

User response: See the associated CICS messages for problem diagnosis.

Module: DFHRPAS

XMEOUT Parameters: *date, time,applid, tranid*

Destination: CRPO

DFHRP0145 *date time applid tranid* **A CICS ONC RPC alias is unable to send a reply to the client due to an error in z/OS Communications Server svc_sendreply processing. Client IP address:** *clientaddr* **Host IP address:** *hostaddr* **Program:** *X'prognum'* **Version** *X'versnum'* **Procedure:** *X'procnum'* **Protocol:** *protocol* **Port:** *port* **Socket:** *socket***.**

Explanation: The alias cannot send a reply to the client. A problem has occurred in the z/OS Communications Server **svc_sendreply** processing.

System action: An **svcerr_systemerr** call is used to send a reply to the client. The alias abends with abend code ARPJ.

User response: Examine the diagnostics to determine the reason for the error. If message DFHRP0002 was issued to the console, the explanation of that message might contain more information.

Module: DFHRPAS

XMEOUT Parameters: *date, time, applid, tranid, clientaddr, hostaddr, X'prognum', X'versnum', X'procnum', protocol, port, socket*

Destination: CRPO

DFHRP0146 *date time applid tranid* **A CICS ONC RPC alias is unable to send a reply to the client due to an error in send reply processing. The transport handle was invalid or was not found. Client IP address:** *clientaddr* **Host IP address:** *hostaddr* **Program** *X'prognum'* **Version:** *X'versnum'* **Procedure:** *X'procnum'* **Protocol:** *protocol* **Port:** *port* **Socket** *socket***.**

Explanation: The alias cannot send a reply to the client. A problem has occurred in send reply processing. The transport handle was in error or was not found.

System action: The client request is abandoned, and no reply is sent to the client. The alias abends with abend code ARPJ.

User response: Examine the diagnostics to determine

the reason for the error. If message DFHRP0002 was issued to the console, the explanation of that message might contain more information.

Module: DFHRPAS

XMEOUT Parameters: *date, time,applid, tranid, clientaddr, hostaddr, X'prognum', X'versnum', X'procnum', protocol, port, socket*

Destination: CRPO

DFHRP0147 *date time applid tranid* **A CICS ONC RPC alias is unable to send a reply to the client because CICS ONC RPC is disabling. Client IP address:** *clientaddr* **Host IP address:** *hostaddr* **Program:** *X'prognum'* **Version:** *X'versnum'* **Procedure:** *X'procnum'* **Protocol:** *protocol* **Port:** *port* **Socket:** *socket***.**

Explanation: The alias cannot send a reply back to the client because CICS ONC RPC is disabling.

System action: The client request is abandoned, and no reply is sent to the client. The alias abends with abend code ARPJ.

User response: Examine the diagnostics to determine the reason for the error.

Module: DFHRPAS

XMEOUT Parameters: *date, time,applid, tranid, clientaddr, hostaddr, X'prognum', X'versnum', X'procnum', protocol, port, socket*

Destination: CRPO

DFHRP0148 *date time applid tranid* **A CICS ONC RPC alias is unable to send a reply to the client due to an error in send processing. Client IP address:** *clientaddr* **Host IP address:** *hostaddr* **Program:** *X'prognum'* **Version:** *X'versnum'* **Procedure:** *X'procnum'* **Protocol:** *protocol* **Port:** *port* **Socket:** *socket***.**

Explanation: The alias cannot send a reply back to the client. The alias received an unexpected response from the RPC caller.

System action: An **svcerr_systemerr** call is used to send a reply to the client. The alias abends with abend code ARPI.

User response: You need further assistance from IBM to resolve this problem. See the *CICS External Interfaces Guide* and Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHRPAS

XMEOUT Parameters: *date, time,applid, tranid, clientaddr, hostaddr, X'prognum', X'versnum', X'procnum', protocol, port, socket*

Destination: CRPO

DFHRP0149 *date time applid tranid* **A CICS ONC RPC alias is unable to send a reply to the client. Client IP address:** *clientaddr* **Host IP address:** *hostaddr* **Program:** *X'prognum'* **Version:** *X'versnum'* **Procedure:** *X'procnum'* **Protocol:** *protocol* **Port:** *port* **Socket** *socket***.**

Explanation: The alias cannot send a reply back to the client. The alias received an unexpected response from the RPC caller.

System action: An **svcerr_systemerr** call is used to send a reply to the client. The alias abends with abend code ARPI.

User response: If message DFHRP0002 was issued to the console, the explanation of that message might contain more information. You may need further assistance from IBM to resolve this problem. See the *CICS External Interfaces Guide* and Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHRPAS

XMEOUT Parameters: *date, time,applid, tranid, clientaddr, hostaddr, X'prognum', X'versnum', X'procnum', protocol, port, socket*

Destination: CRPO

DFHRP0150 *date time applid tranid* **A CICS ONC RPC alias is unable to send data to the client.**

Explanation: The alias is unable to send reply to the client. An unexpected response was returned from RPC caller.

System action: The client request is abandoned, and no reply is sent to the client. The alias abends with abend code ARPJ.

User response: See the associated CICS messages for problem diagnosis.

Module: DFHRPAS

XMEOUT Parameters: *date, time,applid, tranid*

Destination: CRPO

DFHRP0151 *date time applid tranid* **A CICS ONC RPC alias has encountered a severe internal error while processing this client request. Client IP address:** *clientaddr* **Host IP address** *hostaddr* **Program:** *X'prognum'* **Version:** *X'versnum'* **Procedure:** *X'procnum'* **Protocol:** *protocol* **Port:** *port* **Socket:** *socket***.**

Explanation: The alias is unable to switch TCB modes

to allow it to send a reply to the client. The RP TCB is not active.

System action: The client request is abandoned, and no reply is sent to the client. A system dump is taken. The alias abends with abend code ARPN. Message DFHME0116 should be produced containing the symptom string for this problem.

User response: See any associated CICS messages to help with problem diagnosis. If you cannot determine why the TCB mode could not be switched, you need further assistance from IBM to resolve this problem. See the *CICS External Interfaces Guide* and Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed. Report the details of the symptom string given in message DFHME0116. It will aid problem determination.

Module: DFHRPAS

XMEOUT Parameters: *date, time,applid, tranid, clientaddr, hostaddr, X'prognum', X'versnum', X'procnum', protocol, port, socket*

Destination: CRPO

DFHRP0155 *date time applid tranid* **A CICS ONC RPC alias encountered an error while attempting to access the converter** *converter_program_name***. Host IP address:** *hostaddr* **Program:** *X'prognum'* **Version:** *X'versnum'* **Procedure:** *X'procnum'* **Protocol:** *protocol* **Port** *port* **Socket:** *socket* **Client IP address:** *clientaddr***.**

Explanation: An error has prevented the alias from accessing the converter *converter_program_name*.

System action: An **svcerr_systemerr** call is used to send a reply to the client. A system dump is taken. Message DFHME0116 should be produced containing the symptom string for this problem.

User response: You need further assistance from IBM to resolve this problem. See the *CICS External Interfaces Guide* and Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed. Report the details of the symptom string given in message DFHME0116. It will aid problem determination.

Module: DFHRPAS

XMEOUT Parameters: *date, time,applid, tranid, converter_program_name, hostaddr, X'prognum', X'versnum', X'procnum', protocol, port, socket, clientaddr*

Destination: CRPO

DFHRP0156 *date time applid tranid* **A CICS ONC RPC alias could not link to converter** *converter_program_name***. Client IP address:** *clientaddr* **Host IP address:** *hostaddr* **Program** *X'prognum'* **Version:** *X'versnum'* **Procedure:** *X'procnum'* **Protocol:** *protocol* **Port:** *port* **Socket** *socket***.**

Explanation: The alias used EXEC CICS LINK for converter *converter_program_name* to perform the **Encode** function, but received a PGMIDERR response.

System action: An **svcerr_systemerr** call is used to send a reply to the client.

User response: Use CEDA to check that you have defined your converter program correctly to CICS.

Module: DFHRPAS

XMEOUT Parameters: *date, time,applid, tranid, converter_program_name, clientaddr, hostaddr, X'prognum', X'versnum', X'procnum',protocol, port, socket*

Destination: CRPO

DFHRP0157 *date time applid tranid* **A CICS ONC RPC alias could not link to converter** *converter_program_name* **because it is remote. Client IP address:** *clientaddr* **Host IP address** *hostaddr* **Program:** *X'prognum'* **Version:** *X'versnum'* **Procedure:** *X'procnum'* **Protocol:** *protocol* **Port:** *port* **Socket:** *socket***.**

Explanation: The alias cannot work with a converter located in a remote CICS region. Data pointers are passed to and from the converter, and the referenced data can only be used if the converter runs in the local CICS region.

System action: An **svcerr_systemerr** call is used to send a reply to the client. A system dump is taken.

User response: Install and define the converter in the same CICS region as CICS ONC RPC.

Module: DFHRPAS

XMEOUT Parameters: *date, time,applid, tranid, converter_program_name, clientaddr, hostaddr, X'prognum', X'versnum', X'procnum',protocol, port, socket*

Destination: CRPO

DFHRP0159 *date time applid tranid* **A CICS ONC RPC alias is not authorized to link to converter** *converter_program_name***. Client IP address:** *clientaddr* **Host IP address** *hostaddr* **Program:** *X'prognum'* **Version:** *X'versnum'* **Procedure:** *X'procnum'* **Protocol:** *protocol* **Port:** *port* **Socket:** *socket***.**

Explanation: The alias cannot access the converter. An authorization error has occurred.

System action: An **svcerr_systemerr** call is used to send a reply to the client. A system dump is taken.

User response: Either redefine the alias transaction with RESSEC=NO, or change the external security manager to allow the user to access the converter.

Module: DFHRPAS

XMEOUT Parameters: *date, time,applid, tranid, converter_program_name, clientaddr, hostaddr, X'prognum', X'versnum', X'procnum',protocol, port, socket*

Destination: CRPO

DFHRP0160 *date time applid tranid* **A CICS ONC RPC alias received an incorrect response from CICS when attempting to access the converter** *converter_program_name***. Client IP address** *clientaddr* **Host IP address:** *hostaddr* **Program** *X'prognum'* **Version:** *X'versnum'* **Procedure:** *X'procnum'* **Protocol:** *protocol* **Port:** *port* **Socket** *socket***.**

Explanation: The alias received an unexpected response when trying to link to the converter for **Encode** processing.

System action: An **svcerr_systemerr** call is used to send a reply to the client. A system dump is taken. Message DFHME0116 should be produced containing the symptom string for this problem.

User response: See the associated messages issued by CICS for problem diagnosis.

Module: DFHRPAS

XMEOUT Parameters: *date, time,applid, tranid, converter_program_name, clientaddr, hostaddr, X'prognum', X'versnum', X'procnum',protocol, port, socket*

Destination: CRPO

DFHRP0161 *date time applid tranid* **A CICS ONC RPC alias encountered an error during Encode processing in the converter** *program***. Client IP address:** *clientaddr* **Host IP address:** *hostaddr* **Program:** *X'prognum'* **Version** *X'versnum'* **Procedure:** *X'procnum'* **Protocol:** *protocol* **Port:** *port* **Socket:** *socket***.**

Explanation: **Encode** returned URP_EXCEPTION.

System action: An **svcerr_systemerr** call is used to send a reply to the client.

User response: Examine the diagnostics to determine the reason for the error.

Module: DFHRPAS

XMEOUT Parameters: *date, time,applid, tranid, program, clientaddr, hostaddr, X'prognum', X'versnum', X'procnum', protocol, port, socket*

Destination: CRPO

DFHRP0162 *date time applid tranid* **A CICS ONC RPC alias encountered an error during Encode processing in the converter** *program***. Client IP address:** *clientaddr* **Host IP address:** *hostaddr* **Program:** *X'prognum'* **Version** *X'versnum'* **Procedure:** *X'procnum'* **Protocol:** *protocol* **Port:** *port* **Socket:** *socket***.**

Explanation: **Encode** returned URP_INVALID.

System action: An **svcerr_systemerr** call is used to send a reply to the client.

User response: Examine the diagnostics to determine the reason for the error.

Module: DFHRPAS

XMEOUT Parameters: *date, time,applid, tranid, program, clientaddr, hostaddr, X'prognum', X'versnum', X'procnum', protocol, port, socket*

Destination: CRPO

DFHRP0163 *date time applid tranid* **A CICS ONC RPC alias encountered an error during Encode processing in the converter** *program***. Client IP address:** *clientaddr* **Host IP address:** *hostaddr* **Program:** *X'prognum'* **Version** *X'versnum'* **Procedure:** *X'procnum'* **Protocol:** *protocol* **Port:** *port* **Socket:** *socket***.**

Explanation: **Encode** returned an unexpected return code.

System action: An **svcerr_systemerr** call is used to send a reply to the client. A system dump is taken. Message DFHME0116 should be produced containing the symptom string for this problem.

User response: Examine the diagnostics to determine the reason for the error.

Module: DFHRPAS

XMEOUT Parameters: *date, time,applid, tranid, program, clientaddr, hostaddr, X'prognum', X'versnum', X'procnum', protocol, port, socket*

Destination: CRPO

DFHRP0164 *date time applid tranid* **A CICS ONC RPC alias is unable to send an error reply to the client due to a logic error. Client IP address:** *clientaddr* **Host IP address:** *hostaddr* **Program:** *X'prognum'* **Version:** *X'versnum'* **Procedure:** *X'procnum'* **Protocol:** *protocol* **Port** *port* **Socket:** *socket***.**

Explanation: The alias cannot send an error reply to the client due to a logic error.

System action: No reply is sent to the client. A system dump is taken. The alias abends with abend code

ARPI. Message DFHME0116 should be produced containing the symptom string for this problem.

User response: You need further assistance from IBM to resolve this problem. See the *CICS External Interfaces Guide* and Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHRPAS

XMEOUT Parameters: *date, time,applid, tranid, clientaddr, hostaddr, X'prognum', X'versnum', X'procnum', protocol, port, socket*

Destination: CRPO

DFHRP0166 *date time applid tranid* **A CICS ONC RPC alias is unable to send a reply to the client because the transport handle was invalid or was not found. Client IP address:** *clientaddr* **Host IP address:** *hostaddr* **Program:** *X'prognum'* **Version** *X'versnum'* **Procedure:** *X'procnum'* **Protocol:** *protocol* **Port:** *port* **Socket:** *socket***.**

Explanation: The alias cannot send a reply to the client. The transport handle was invalid or was not found.

System action: No reply is sent to the client. The alias abends with abend code ARPJ.

User response: If message DFHRP0002 was issued to the console, the explanation of that message might contain more information. You may need further assistance from IBM to resolve this problem. See the *CICS External Interfaces Guide* and Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHRPAS

XMEOUT Parameters: *date, time,applid, tranid, clientaddr, hostaddr, X'prognum', X'versnum', X'procnum', protocol, port, socket*

Destination: CRPO

DFHRP0167 *date time applid tranid* **A CICS ONC RPC alias is unable to send an error reply to the client. CICS ONC RPC is disabling. Client IP address:** *clientaddr* **Host IP address:** *hostaddr* **Program:** *X'prognum'* **Version:** *X'versnum'* **Procedure:** *X'procnum'* **Protocol:** *protocol* **Port:** *port* **Socket:** *socket***.**

Explanation: The alias cannot send a reply to the client because CICS ONC RPC is disabling.

System action: No reply is sent to the client. The alias abends with abend code ARPJ.

User response: Examine the diagnostics to determine the reason for the error.

Module: DFHRPAS

XMEOUT Parameters: *date, time,applid, tranid, clientaddr, hostaddr, X'prognum', X'versnum', X'procnum', protocol, port, socket*

Destination: CRPO

DFHRP0168 *date time applid tranid* **A CICS ONC RPC alias is unable to send an error reply to the client. Client IP address** *clientaddr* **Host IP address:** *hostaddr* **Program** *X'prognum'* **Version:** *X'versnum'* **Procedure:** *X'procnum'* **Protocol:** *protocol* **Port:** *port* **Socket** *socket***.**

Explanation: The alias cannot send a reply to the client. The alias received an error response from the RPC caller.

System action: No reply is sent to the client. The alias abends with abend code ARPI.

User response: If message DFHRP0002 was issued to the console, the explanation of that message might contain more information. Examine the diagnostics to determine the reason for the error. You may need further assistance from IBM to resolve this problem. See the *CICS External Interfaces Guide* and Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHRPAS

XMEOUT Parameters: *date, time,applid, tranid, clientaddr, hostaddr, X'prognum', X'versnum', X'procnum', protocol, port, socket*

Destination: CRPO

DFHRP0169 *date time applid tranid* **A CICS ONC RPC alias encountered an error during Encode processing in the converter** *program***. Client IP address:** *clientaddr* **Host IP address:** *hostaddr* **Program:** *X'prognum'* **Version** *X'versnum'* **Procedure:** *X'procnum'* **Protocol:** *protocol* **Port:** *port* **Socket:** *socket***.**

Explanation: **Encode** returned URP_DISASTER.

System action: An **svcerr_systemerr** call is used to send a reply to the client.

User response: Examine the diagnostics to determine the reason for the error.

Module: DFHRPAS

XMEOUT Parameters: *date, time,applid, tranid, program, clientaddr, hostaddr, X'prognum', X'versnum', X'procnum', protocol, port, socket*

Destination: CRPO

DFHRP0170 *date time applid tranid* **A CICS ONC RPC alias has detected an error.**

Explanation: The alias has detected an error.

System action: A system dump is taken. The alias abends with abend code ARPI. Message DFHME0116 should be produced containing the symptom string for this problem.

User response: Examine the diagnostics to determine the reason for the error.

Module: DFHRPAS

XMEOUT Parameters: *date, time,applid, tranid*

Destination: CRPO

DFHRP0171 *date time applid tranid* **A CICS ONC RPC alias has detected a FREEMAIN error.**

Explanation: The alias has detected a FREEMAIN error when freeing the communication area used by the CICS program. This FREEMAIN occurs after **Encode** processing.

System action: Processing continues.

User response: Examine the diagnostics to determine the reason for the error.

Module: DFHRPAS

XMEOUT Parameters: *date, time,applid, tranid*

Destination: CRPO

DFHRP0172 *date time applid tranid* **A CICS ONC RPC alias has detected a FREEMAIN error.**

Explanation: The alias has detected an error while freeing the data area created by **Encode** processing. The FREEMAIN occurs after outbound XDR processing.

System action: Processing continues.

User response: Examine the diagnostics to determine the reason for the error.

Module: DFHRPAS

XMEOUT Parameters: *date, time,applid, tranid*

Destination: CRPO

DFHRP0173 *date time applid tranid* **A CICS ONC RPC alias cannot find its alias list entry for deletion at task end. Client IP address:** *clientaddr* **Host IP address:** *hostaddr* **Program** *X'prognum'* **Version:** *X'versnum'* **Procedure:** *X'procnum'* **Protocol:** *protocol* **Port:** *X'port'* **Socket:** *X'socket'***.**

Explanation: The alias has attempted to delete its alias list entry at task end. The alias list component has returned a NOT FOUND response. This is because either a connection manager user has started immediate disable processing, or because a connection manager user has deleted the entry.

System action: The alias abends with abend code ARPJ.

User response: None.

Module: DFHRPAS

XMEOUT Parameters: *date, time,applid, tranid, clientaddr, hostaddr, X'prognum', X'versnum', X'procnum', protocol, X'port', X'socket'*

Destination: CRPO

DFHRP0174 *date time applid tranid* **A CICS ONC RPC alias received an error response while attempting to delete its alias list entry. Client IP address:** *clientaddr* **Host IP address** *hostaddr* **Program:** *X'prognum'* **Version:** *X'versnum'* **Procedure:** *X'procnum'* **Protocol:** *protocol* **Port:** *X'port'* **Socket:** *X'socket'***.**

Explanation: The alias has attempted to delete its alias list entry at task end. It received a response that indicated a severe error had occurred.

System action: The alias abends with abend code ARPJ.

User response: You need further assistance from IBM to resolve this problem. See the *CICS External Interfaces Guide* and Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed. response.

Module: DFHRPAS

XMEOUT Parameters: *date, time,applid, tranid, clientaddr, hostaddr, X'prognum', X'versnum', X'procnum', protocol, X'port', X'socket'*

Destination: CRPO

DFHRP0175 *date time applid tranid* **A CICS ONC RPC alias sent an error reply to the client, but cannot free storage associated with the error call to the client. Client IP address:** *clientaddr* **Host IP address:** *hostaddr* **Program:** *X'prognum'* **Version:** *X'versnum'* **Procedure:** *X'procnum'* **Protocol:** *protocol* **Port:** *port* **Socket** *socket***.**

Explanation: The alias sent an error reply to the client. After this reply was sent, the alias received an error response when attempting to free storage associated with the error call to the client.

System action: The alias abends with abend code ARPJ.

User response: Examine the diagnostics to determine the reason for the error. If the problem persists, you need further assistance from IBM to resolve this problem. See the *CICS External Interfaces Guide* and Part

4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHRPAS

XMEOUT Parameters: *date, time,applid, tranid, clientaddr, hostaddr, X'prognum', X'versnum', X'procnum', protocol, port, socket*

Destination: CRPO

DFHRP0176 *date time applid tranid* **A CICS ONC RPC alias sent a reply to the client, but cannot free storage associated with the svc_sendreply call. Client IP address:** *clientaddr* **Host IP address:** *hostaddr* **Program:** *X'prognum'* **Version** *X'versnum'* **Procedure:** *X'procnum'* **Protocol:** *protocol* **Port:** *port* **Socket:** *socket***.**

Explanation: The alias sent a reply back to the client. After this reply was sent, the alias received an error response when attempting to free storage associated with the **svc_sendreply** call.

System action: The alias abends with abend code ARPJ.

User response: Examine the diagnostics to determine the reason for the error. You need further assistance from IBM to resolve this problem. See the *CICS External Interfaces Guide* and Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHRPAS

XMEOUT Parameters: *date, time,applid, tranid, clientaddr, hostaddr, X'prognum', X'versnum', X'procnum', protocol, port, socket*

Destination: CRPO

DFHRP0180 *date time applid tranid* **A CICS ONC RPC alias has detected an abend issued by the resource checker** *program***. Client IP address:** *clientaddr* **Host IP address** *hostaddr* **Program:** *X'prognum'* **Version:** *X'versnum'* **Procedure:** *X'procnum'* **Protocol:** *protocol* **Port:** *port* **Socket:** *socket***.**

Explanation: The alias has detected an abend by the resource checker.

System action: An **svcerr_systemerr** call is used to send a reply to the client. The alias abends with abend code ARPO.

User response: Examine the diagnostics to determine the reason for the error.

Module: DFHRPAS

XMEOUT Parameters: *date, time,applid, tranid, program, clientaddr, hostaddr, X'prognum', X'versnum', X'procnum', protocol, port, socket*

Destination: CRPO

DFHRP0181 *date time applid tranid* **A CICS ONC RPC alias has detected an abend issued by the CICS program** *program***. Client IP address:** *clientaddr* **Host IP address:** *hostaddr* **Program** *X'prognum'* **Version:** *X'versnum'* **Procedure:** *X'procnum'* **Protocol:** *protocol* **Port:** *port* **Socket** *socket***.**

Explanation: The alias has detected an abend by the CICS program that was servicing the client request.

System action: An **svcerr_systemerr** call is used to send a reply to the client. The alias abends with abend code ARPO.

User response: Examine the diagnostics to determine the reason for the error.

Module: DFHRPAS

XMEOUT Parameters: *date, time,applid, tranid, program, clientaddr, hostaddr, X'prognum', X'versnum', X'procnum', protocol, port, socket*

Destination: CRPO

DFHRP0182 *date time applid tranid* **A CICS ONC RPC alias has detected an abend issued in the Encode function of the converter** *program***. Client IP address:** *clientaddr* **Host IP address:** *hostaddr* **Program:** *X'prognum'* **Version** *X'versnum'* **Procedure:** *X'procnum'* **Protocol:** *protocol* **Port:** *port* **Socket:** *socket***.**

Explanation: The alias has detected an abend by the converter **Encode** function.

System action: An **svcerr_systemerr** call is used to send a reply to the client. The alias abends with abend code ARPO.

User response: Examine the diagnostics to determine the reason for the error.

Module: DFHRPAS

XMEOUT Parameters: *date, time,applid, tranid, program, clientaddr, hostaddr, X'prognum', X'versnum', X'procnum', protocol, port, socket*

Destination: CRPO

DFHRP0183 *date time applid tranid* **A CICS ONC RPC alias has detected an abend. Client IP address:** *clientaddr* **Host IP address:** *hostaddr* **Program:** *X'prognum'* **Version** *X'versnum'* **Procedure:** *X'procnum'* **Protocol:** *protocol* **Port:** *port* **Socket:** *socket***.**

Explanation: The alias has detected an abend.

System action: An **svcerr_systemerr** call is used to send a reply to the client. The alias abends with abend code ARPO.

User response: Examine the diagnostics to determine the reason for the error.

Module: DFHRPAS

XMEOUT Parameters: *date, time,applid, tranid, clientaddr, hostaddr, X'prognum', X'versnum', X'procnum', protocol, port, socket*

Destination: CRPO

DFHRP0184 *date time applid tranid* **A CICS ONC RPC alias has found that the resource checker has rejected this client request. Response:** *response* **Reason:** *reason***. Client IP address** *clientaddr* **Host IP address:** *hostaddr* **Program** *X'prognum'* **Version:** *X'versnum'* **Procedure:** *X'procnum'* **Protocol:** *protocol* **Port:** *port* **Socket** *socket***.**

Explanation: The resource checker has returned the response *response* and reason *reason*. This client request is not authorized to continue.

System action: An **svcerr_auth** call with a why-value of AUTH_TOOWEAK is used to send a reply to the client. The alias abends with abend code ARPL.

User response: If you suspect an error in the resource checker, use the response and reason codes to debug it.

Module: DFHRPAS

XMEOUT Parameters: *date, time,applid, tranid, response, reason, clientaddr, hostaddr, X'prognum', X'versnum', X'procnum', protocol, port, socket*

Destination: CRPO

DFHRP0185 *date time applid tranid* **A CICS ONC RPC alias has detected an error in the resource checker. Response:** *response* **Reason:** *reason***. Client IP address:** *clientaddr* **Host IP address:** *hostaddr* **Program:** *X'prognum'* **Version:** *X'versnum'* **Procedure:** *X'procnum'* **Protocol:** *protocol* **Port:** *port* **Socket** *socket***.**

Explanation: The resource checker has returned the response *response* and reason *reason*. This client request is not authorized to continue.

System action: An **svcerr_systemerr** call is used to send a reply to the client. The alias abends with abend code ARPM.

User response: If you suspect an error in the resource checker, use the response and reason codes to debug it.

Module: DFHRPAS

XMEOUT Parameters: *date, time,applid, tranid, response, reason, clientaddr, hostaddr, X'prognum', X'versnum', X'procnum', protocol, port, socket*

Destination: CRPO

DFHRP0186 *date time applid tranid* **A CICS ONC RPC alias has detected an error in the resource checker program. Response:** *response* **Reason:** *reason***. Client IP address:** *clientaddr* **Host IP address:** *hostaddr* **Program:** *X'prognum'* **Version:** *X'versnum'* **Procedure:** *X'procnum'* **Protocol:** *protocol* **Port:** *port* **Socket** *socket***.**

Explanation: The resource checker has returned the response *response* and reason *reason*. This client request is not authorized to continue.

System action: An **svcerr_systemerr** call is used to send a reply to the client. The alias abends with abend code ARPM.

User response: If you suspect an error in the resource checker, use the response and reason codes to debug it.

Module: DFHRPAS

XMEOUT Parameters: *date, time,applid, tranid, response, reason, clientaddr, hostaddr, X'prognum', X'versnum', X'procnum', protocol, port, socket*

Destination: CRPO

DFHRP0187 *date time applid tranid* **A CICS ONC RPC alias detected an error in the resource checker. Response:** *response* **Reason:** *reason***. Client IP address:** *clientaddr* **Host IP address:** *hostaddr* **Program:** *X'prognum'* **Version:** *X'versnum'* **Procedure:** *X'procnum'* **Protocol:** *protocol* **Port:** *port* **Socket** *socket***.**

Explanation: The resource checker has returned the response *response* and reason *reason*. This client request is not authorized to continue.

System action: An **svcerr_systemerr** call is used to send a reply to the client. The alias abends with abend code ARPM.

User response: If you suspect and error in the resource checker, use the response and reason codes to debug it.

Module: DFHRPAS

XMEOUT Parameters: *date, time,applid, tranid, response, reason, clientaddr, hostaddr, X'prognum', X'versnum', X'procnum', protocol, port, socket*

Destination: CRPO

DFHRP0188 *date time applid tranid* **A CICS ONC RPC alias has detected an error in the resource checker. Response:** *response* **Reason:** *reason***. Client IP address:** *clientaddr* **Host IP address:** *hostaddr* **Program:** *X'prognum'* **Version:** *X'versnum'* **Procedure:** *X'procnum'* **Protocol:** *protocol* **Port:** *port* **Socket** *socket***.**

Explanation: The resource checker has returned the response *response* and reason *reason*. This client request is not authorized to continue.

System action: An **svcerr_systemerr** call is used to send a reply to the client. A system dump is taken. The alias abends with code abend ARPM. Message DFHME0116 should be produced containing the symptom string for this problem.

User response: If you suspect an error in the resource checker, use the response and reason codes to debug it.

Module: DFHRPAS

XMEOUT Parameters: *date, time,applid, tranid, response, reason, clientaddr, hostaddr, X'prognum', X'versnum', X'procnum', protocol, port, socket*

Destination: CRPO

DFHRP0189 *date time applid tranid* **A CICS ONC RPC alias is unable to continue processing this client request as it cannot load the CICS program** *program***. Client IP address:** *clientaddr* **Host IP address:** *hostaddr* **Program:** *X'prognum'* **Version:** *X'versnum'* **Procedure:** *X'procnum'* **Protocol:** *protocol* **Port:** *port* **Socket** *socket***.**

Explanation: The alias has received an INVREQ response while trying to EXEC CICS LOAD the CICS program *program* for security checking. This indicates that the program manager domain has not yet been initialized and may be due to this request having been made in a first stage PLT.

System action: An **svcerr_systemerr** call is used to send a reply to the client. The alias abends with abend code ARPG.

User response: Ensure that the program manager domain is initialized.

Module: DFHRPAS

XMEOUT Parameters: *date, time,applid, tranid, program, clientaddr, hostaddr, X'prognum', X'versnum', X'procnum', protocol, port, socket*

Destination: CRPO

DFHRP0190 *date time applid tranid* **A CICS ONC RPC alias is unable to continue processing this client request as it cannot load the CICS program** *program***. EIBRESP2:** *eibresp2* **Client IP address:** *clientaddr* **Host IP address:** *hostaddr* **Program** *X'prognum'* **Version:** *X'versnum'* **Procedure:** *X'procnum'* **Protocol:** *protocol* **Port:** *port* **Socket** *socket***.**

Explanation: The alias has received a PGMIDERR response while trying to EXEC CICS LOAD the CICS program *program* for security checking. This indicates that the program cannot be found or cannot be autoinstalled.

System action: An **svcerr_systemerr** call is used to send a reply to the client. The alias abends with abend code ARPG.

User response: Ensure that the load module is in the DFHRPL concatenation and can be autoinstalled.

Module: DFHRPAS

XMEOUT Parameters: *date, time,applid, tranid, program, eibresp2, clientaddr, hostaddr, X'prognum', X'versnum', X'procnum', protocol, port, socket*

Destination: CRPO

DFHRP0191 *date time applid tranid* **A CICS ONC RPC alias is unable to continue processing this client request as it cannot load the CICS program** *program***. EIBRESP2:** *eibresp2* **Client IP address:** *clientaddr* **Host IP address:** *hostaddr* **Program** *X'prognum'* **Version:** *X'versnum'* **Procedure:** *X'procnum'* **Protocol:** *protocol* **Port:** *port* **Socket** *socket***.**

Explanation: The alias has received a PGMIDERR response while trying to EXEC CICS LOAD the CICS program *program* for security checking. This indicates that the program autoinstall control program has failed.

System action: An **svcerr_systemerr** call is used to send a reply to the client. The alias abends with abend code ARPJ.

User response: Use the EIBRESP2 value to determine why the program autoinstall control program failed and correct the problem.

Module: DFHRPAS

XMEOUT Parameters: *date, time,applid, tranid, program, eibresp2, clientaddr, hostaddr, X'prognum', X'versnum', X'procnum', protocol, port, socket*

Destination: CRPO

DFHRP0192 *date time applid tranid* **A CICS ONC RPC alias is unable to continue processing this client request as it cannot load the CICS program** *program***. Client IP address:** *clientaddr* **Host IP address:** *hostaddr* **Program:** *X'prognum'* **Version:** *X'versnum'* **Procedure:** *X'procnum'* **Protocol:** *protocol* **Port:** *port* **Socket** *socket***.**

Explanation: The alias has detected an internal error while trying to load the CICS program *program* for security checking.

System action: An **svcerr_systemerr** call is used to send a reply to the client. A system dump is taken. The alias abends with abend code ARPI.

User response: You need further assistance from IBM to resolve this problem. See the *CICS External Interfaces Guide* and Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed. Report the details of the symptom string given in message DFHME0116. It will aid problem determination.

Module: DFHRPAS

XMEOUT Parameters: *date, time,applid, tranid, program, clientaddr, hostaddr, X'prognum', X'versnum', X'procnum', protocol, port, socket*

Destination: CRPO

DFHRP0193 *date time applid tranid* **A CICS ONC RPC alias is unable to continue processing this client request as it cannot load the CICS program** *program***. Client IP address:** *clientaddr* **Host IP address:** *hostaddr* **Program:** *X'prognum'* **Version:** *X'versnum'* **Procedure:** *X'procnum'* **Protocol:** *protocol* **Port:** *port* **Socket** *socket***.**

Explanation: The alias has received a NOTAUTH response while trying to EXEC CICS LOAD the CICS program *program* for security checking. This indicates that it is not authorized to access this program. This error may have occurred because the local alias transaction has been defined with RESSEC=YES.

System action: An **svcerr_systemerr** call is used to send a reply to the client. The alias abends with abend code ARPG.

User response: If the alias transaction must run with RESSEC=YES, add a profile to the external security manager that allows users to access the program. If you do not require resource level security, set RESSEC=NO in the alias transaction definition.

Module: DFHRPAS

XMEOUT Parameters: *date, time,applid, tranid, program, clientaddr, hostaddr, X'prognum', X'versnum', X'procnum', protocol, port, socket*

Destination: CRPO

DFHRP0194 *date time applid tranid* **A CICS ONC RPC alias is unable to continue processing this client request as it cannot load the CICS program** *program***. Client IP address:** *clientaddr* **Host IP address:** *hostaddr* **Program:** *X'prognum'* **Version:** *X'versnum'* **Procedure:** *X'procnum'* **Protocol:** *protocol* **Port:** *port* **Socket** *socket***.**

Explanation: The alias has received an incorrect response while trying to load the CICS program *program* for security checking.

System action: An **svcerr_systemerr** call is used to send a reply to the client. A system dump is taken. The alias abends with abend code ARPI. Message DFHME0116 should be produced containing the symptom string for this problem.

User response: You need further assistance from IBM to resolve this problem. See the *CICS External Interfaces Guide* and Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed. Report the details of the symptom string given in message DFHME0116. It will aid problem determination.

Module: DFHRPAS

XMEOUT Parameters: *date, time,applid, tranid, program, clientaddr, hostaddr, X'prognum', X'versnum', X'procnum', protocol, port, socket*

Destination: CRPO

DFHRP0500 *date time applid tranid* **CICS ONC RPC enable processing is complete. Host IP address:** *hostaddr***.**

Explanation: The enable process has completed successfully.

System action: Processing continues.

User response: None.

Module: DFHRPMS

XMEOUT Parameters: *date, time,applid, tranid, hostaddr*

Destination: Console and Transient Data Queue CRPO

DFHRP0501 *date time applid tranid* **CICS ONC RPC normal disable processing has started. Host IP address:** *hostaddr***.**

Explanation: The server controller has started normal disable processing following a request by a connection manager user.

System action: Processing continues.

User response: None.

Module: DFHRPMS

XMEOUT Parameters: *date, time,applid, tranid, hostaddr*

Destination: CRPO

DFHRP0502 *date time applid tranid* **CICS ONC RPC immediate disable processing has started. Host IP address:** *hostaddr***.**

Explanation: The server controller has started immediate disable processing following a request by a connection manager user.

System action: Processing continues.

User response: None.

Module: DFHRPMS

XMEOUT Parameters: *date, time,applid, tranid, hostaddr*

Destination: CRPO

DFHRP0503 *date time applid tranid* **CICS ONC RPC disable processing is complete.**

Explanation: The server controller has completed the disable processing.

System action: Processing continues.

User response: None.

Module: DFHRPMS

XMEOUT Parameters: *date, time,applid, tranid*

Destination: Console and Transient Data Queue CRPO

DFHRP0508 *date time applid tranid* **The CICS ONC RPC task related user exit (DFHRPTRU) has been disabled before the server controller could start.**

Explanation: DFHRPTRU is enabled by the connection manager during enable processing. but DFHRPTRU was found to be disabled when the server controller started. This is probably caused by an operator manually disabling DFHRPTRU.

System action: The server controller abends with abend code ARP2. CICS ONC RPC remains disabled. A system dump is taken. Message DFHME0116 should be produced containing the symptom string for this problem.

User response: Reenable CICS ONC RPC. Consider taking steps to avoid future manual interference with the TRUE.

Module: DFHRPMS

XMEOUT Parameters: *date, time,applid, tranid*

Destination: CRPO

DFHRP0509 *date time applid tranid* **CICS ONC RPC has received an incorrect response on a call made to CICS during server controller startup.**

Explanation: CICS ONC RPC has received a response indicating an error in CICS.

System action: The server controller abends with abend code ARP2. CICS ONC RPC remains disabled. A system dump is taken. Message DFHME0116 should be produced containing the symptom string for this problem.

User response: See the associated CICS message or messages for problem diagnosis.

Module: DFHRPMS

XMEOUT Parameters: *date, time,applid, tranid*

Destination: CRPO

DFHRP0510 *date time applid tranid* **The CICS ONC RPC task related user exit (DFHRPTRU) has been deleted or disabled before the server controller could start.**

Explanation: DFHRPTRU is enabled by the connection manager during enable processing, but the server controller received an indication that

- DFHRPTRU is not defined to CICS, or
- it has no load module, or
- the load module is disabled.

This is probably caused by operator intervention.

System action: The server controller abends with abend code ARPQ. A system dump is taken.

User response: Reenable CICS ONC RPC. Consider taking steps to prevent future operator interference.

Module: DFHRPMS

XMEOUT Parameters: *date, time,applid, tranid*

Destination: CRPO

DFHRP0513 *date time applid tranid* **The CICS ONC RPC server controller could not link to the converter** *converter_program_name***. EIBRESP2:** *resp2val***. Client IP address:** *clientaddr* **Host IP address:** *hostaddr* **Program** *X'prognum'* **Version:** *X'versnum'* **Procedure:** *X'procnum'* **Protocol:** *protocol* **Port:** *port* **Socket** *socket***.**

Explanation: The server controller used EXEC CICS LINK for converter *converter_program_name* to perform **Decode**, but received a PGMIDERR response.

System action: An **svcerr_systemerr** call is used to send a reply to the client.

User response: If the converter name is wrong, use the connection manager to unregister and reregister the 4-tuple with the correct converter name.

Module: DFHRPMS

XMEOUT Parameters: *date, time,applid, tranid, converter_program_name, resp2val, clientaddr, hostaddr, X'prognum', X'versnum', X'procnum', protocol, port, socket*

Destination: CRPO

DFHRP0516 *date time applid tranid* **The CICS ONC RPC server controller obtained data length information from the Decode function of converter** *converter_program_name* **that gives a communication area length that is too great. Client IP address:** *clientaddr* **Host IP address:** *hostaddr* **Program:** *X'prognum'* **Version:** *X'versnum'* **Procedure:** *X'procnum'* **Protocol:** *protocol* **Port:** *port* **Socket** *socket***.**

Explanation: The communication area length calculated from the **decode_server_data_format**, **decode_server_input_data_len**, and **decode_server_output_data_len** parameters exceeds the permitted maximum. See the *CICS Application Programming Guide* for more information about the **Decode** function and its parameters.

System action: An **svcerr_systemerr** call is used to send a reply to the client.

User response: Correct and replace the erroneous converter.

Module: DFHRPMS

XMEOUT Parameters: *date, time,applid, tranid, converter_program_name, clientaddr, hostaddr, X'prognum', X'versnum', X'procnum',protocol, port, socket*

Destination: CRPO

DFHRP0517 *date time applid tranid* **The CICS ONC RPC server controller does not have resource-level security authorization to start alias transaction** *alias-tranid***. Client IP address:** *clientaddr* **Host IP address:** *hostaddr* **Program:** *X'prognum'* **Version:** *X'versnum'* **Procedure:** *X'procnum'* **Protocol:** *protocol* **Port:** *port* **Socket** *socket***.**

Explanation: The server controller cannot start the alias because it does not have the necessary resource-level security authorization.

System action: An **svcerr_auth** call with a why-value of AUTH_TOOWEAK is used to send a reply to the client.

User response: You should specify only the alias transaction IDs that server controller has resource-level security authorization to start. When CICS ONC RPC is next disabled, redefine the server controller transaction with RESSEC=NO.

Module: DFHRPMS

XMEOUT Parameters: *date, time,applid, tranid, alias-tranid,clientaddr, hostaddr, X'prognum',X'versnum', X'procnum', protocol,port, socket*

Destination: CRPO

DFHRP0518 *date time applid tranid* **CICS ONC RPC cannot process a client request because the associated terminal ID** *alias_termid* **is not in the terminal control table. Client IP address:** *clientaddr* **Host IP address:** *hostaddr* **Program** *X'prognum'* **Version:** *X'versnum'* **Procedure:** *X'procnum'* **Protocol:** *protocol* **Port:** *port* **Socket** *socket***.**

Explanation: A client request has arrived, and the corresponding 4-tuple refers to a terminal ID that is not in the terminal control table.

System action: An **svcerr_systemerr** call is used to send a reply to the client.

User response: Either define the missing terminal, or change the 4-tuple definition to refer to a terminal ID that is in the terminal control table.

Module: DFHRPMS

XMEOUT Parameters: *date, time,applid, tranid, alias_termid,clientaddr, hostaddr, X'prognum',X'versnum', X'procnum', protocol,port, socket*

Destination: CRPO

DFHRP0520 *date time applid tranid* **A CICS ONC RPC internal error has occurred while the server controller was polling for client work. Host IP address:** *hostaddr***.**

Explanation: This is an internal error.

System action: CICS ONC RPC enters exception disable processing.

User response: If message DFHRP0002 was issued to the console, the explanation of that message might contain more information. You may need further assistance from IBM to resolve this problem. See the *CICS External Interfaces Guide* and Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHRPMS

XMEOUT Parameters: *date, time,applid, tranid, hostaddr*

Destination: CRPO

DFHRP0521 *date time applid tranid* **The CICS ONC RPC server controller detected an internal error while accessing an internal table. Client IP address:** *clientaddr* **Host IP address:** *hostaddr* **Program:** *X'prognum'* **Version:** *X'versnum'* **Procedure:** *X'procnum'* **Protocol:** *protocol* **Port:** *port* **Socket:** *socket*

Explanation: An internal error has occurred in the server controller while it was accessing an internal table.

System action: Processing continues.

User response: None.

Module: DFHRPMS

XMEOUT Parameters: *date, time,applid, tranid, clientaddr, hostaddr, X'prognum', X'versnum', X'procnum', protocol, port, socket*

Destination: CRPO

DFHRP0522 *date time applid tranid* **The CICS ONC RPC server controller detected an internal error while accessing an internal table. Client IP address:** *clientaddr* **Host IP address:** *hostaddr* **Program:** *X'prognum'* **Version:** *X'versnum'* **Procedure:** *X'procnum'* **Protocol:** *protocol* **Port:** *port* **Socket:** *socket*

Explanation: An internal error has occurred in the server controller while accessing an internal table.

System action: Processing continues.

User response: None.

Module: DFHRPMS

XMEOUT Parameters: *date, time,applid, tranid, clientaddr, hostaddr, X'prognum', X'versnum', X'procnum', protocol, port, socket*

Destination: CRPO

DFHRP0528 *date time applid tranid* **The CICS ONC RPC server controller detected an initialization error.**

Explanation: This is an internal error.

System action: A system dump is taken. The server controller abends with abend code ARP2. CICS ONC RPC remains disabled. Message DFHME0116 should be produced containing the symptom string for this problem.

User response: You need further assistance from IBM to resolve this problem. See the *CICS External Interfaces Guide* and Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed. Report the details of the symptom string given in message DFHME0116. It will aid problem determination.

Module: DFHRPMS

XMEOUT Parameters: *date, time,applid, tranid*

Destination: CRPO

DFHRP0540 *date time applid* **The CICS ONC RPC server controller received an error response from z/OS Communications Server after an svc_freeargs call issued for XDR routine:** *xdrname* **Client IP address** *clientaddr* **Host IP address:** *hostaddr* **Program** *X'progname'* **Version:** *X'versnum'* **Procedure:** *X'procnum'* **Protocol:** *protocol* **Port:** *port* **Socket** *socket***.**

Explanation: The server controller cannot free storage allocated by the inbound XDR routine. An **svc_freeargs** returned an error response. This may be because the client associated with the call has timed out and the storage has already been freed by z/OS Communications Server.

System action: The server controller continues to process this client request. If the message is not a result of client time-out, MVS storage associated with the request will not be freed; if errors of this kind occur frequently, they may lead to storage problems.

User response: Examine the diagnostics to determine the reason for the error. If a user-written XDR routine is being used, there may be an error in the code associated with the FREE function. If message DFHRP0002 was issued to the console, the explanation of that message might contain more information.

Module: DFHRPMS

XMEOUT Parameters: *date, time, applid, xdrname, clientaddr, hostaddr, X'progname', X'versnum', X'procnum', protocol, port, socket*

Destination: CRPO

DFHRP0545 *date time applid tranid* **The CICS ONC RPC server controller is unable to send an error reply to the client due to an error in reply processing. The transport handle was invalid or not found. Client IP address:** *clientaddr* **Host IP address** *hostaddr* **Program:** *X'prognum'* **Version:** *X'versnum'* **Procedure:** *X'procnum'* **Protocol:** *protocol* **Port:** *port* **Socket:** *socket***.**

Explanation: The server controller cannot send an error reply to the client because the transport handle is not valid.

System action: The client request is abandoned, and no reply is sent to the client.

User response: Examine the diagnostics to determine the reason for the error. If message DFHRP0002 was issued to the console, the explanation of that message might contain more information. You may need further assistance from IBM to resolve this problem. See the *CICS External Interfaces Guide* and Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHRPM

XMEOUT Parameters: *date, time,applid, tranid, clientaddr, hostaddr, X'prognum', X'versnum', X'procnum', protocol, port, socket*

Destination: CRPO

DFHRP0546 *date time applid tranid* **The CICS ONC RPC server controller is unable to send an error reply to the client because CICS ONC RPC is disabling. Client IP address:** *clientaddr* **Host IP address:** *hostaddr* **Program:** *X'prognum'* **Version** *X'versnum'* **Procedure:** *X'procnum'* **Protocol:** *protocol* **Port:** *port* **Socket:** *socket***.**

Explanation: The server controller cannot send an error reply to the client. CICS ONC RPC is disabling.

System action: The client request is abandoned, and no reply is sent to the client.

User response: Examine the diagnostics to determine the reason for the disable request.

Module: DFHRPM

XMEOUT Parameters: *date, time,applid, tranid, clientaddr, hostaddr, X'prognum', X'versnum', X'procnum', protocol, port, socket*

Destination: CRPO

DFHRP0547 *date time applid tranid* **The CICS ONC RPC server controller is unable to send an error reply to the client. Client IP address:** *clientaddr* **Host IP address:** *hostaddr* **Program** *X'prognum'* **Version:** *X'versnum'* **Procedure:** *X'procnum'* **Protocol:** *protocol* **Port:** *port* **Socket** *socket***.**

Explanation: The server controller cannot send a reply to the client, because it received an error response from the RPC caller.

System action: The client request is abandoned, and no reply is sent to the client. The server controller attempts to deal with requests from other clients, but may experience further RPC caller errors.

User response: Examine the exception trace to determine the reason for the error. If message DFHRP0002 was issued to the console, the explanation of that message might contain more information. You may need further assistance from IBM to resolve this problem. See the *CICS External Interfaces Guide* and Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHRPM

XMEOUT Parameters: *date, time,applid, tranid, clientaddr, hostaddr, X'prognum', X'versnum', X'procnum', protocol, port, socket*

Destination: CRPO

DFHRP0548 *date time applid tranid* **The CICS ONC RPC server controller sent an error reply to the client but cannot free storage associated with the client call. Client IP address:** *clientaddr* **Host IP address:** *hostaddr* **Program:** *X'prognum'* **Version:** *X'versnum'* **Procedure:** *X'procnum'* **Protocol:** *protocol* **Port:** *port* **Socket** *socket***.**

Explanation: The server controller sent an error reply to the client. After this reply was sent, the server controller received an error response when attempting to free storage associated with the client call.

System action: Processing continues as if the error had not occurred.

User response: Examine the diagnostics to determine the reason for the error. You need further assistance from IBM to resolve this problem. See the *CICS External Interfaces Guide* and Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHRPMS

XMEOUT Parameters: *date, time,applid, tranid, clientaddr, hostaddr, X'prognum', X'versnum', X'procnum', protocol, port, socket*

Destination: CRPO

DFHRP0559 *date time applid tranid* **The CICS ONC RPC server controller has encountered an internal error while trying to disable its task related user exit.**

Explanation: An attempt to disable the task-related user exit during disable processing has failed because of an internal error.

System action: A system dump is taken. Disable processing continues. Message DFHME0116 should be produced containing the symptom string for this problem.

User response: You need further assistance from IBM to resolve this problem. See the *CICS External Interfaces Guide* and Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed. Report the details of the symptom string given in message DFHME0116. It will aid problem determination.

Module: DFHRPMS

XMEOUT Parameters: *date, time,applid, tranid*

Destination: CRPO

DFHRP0570 *date time applid tranid* **The CICS ONC RPC server controller found that the RP task control block is not available. Host IP address:** *hostaddr***.**

Explanation: The RP TCB is not available.

System action: A system dump is taken. The server

controller abends with abend code ARP2. CICS ONC RPC is disabled. Message DFHME0116 should be produced containing the symptom string for this problem.

User response: You need further assistance from IBM to resolve this problem. See the *CICS External Interfaces Guide* and Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed. Report the details of the symptom string given in message DFHME0116. It will aid problem determination.

Module: DFHRPMS

XMEOUT Parameters: *date, time,applid, tranid, hostaddr*

Destination: CRPO

DFHRP0574 *date time applid tranid* **The CICS ONC RPC server controller has encountered an internal error while waiting for work. Host IP address:** *hostaddr***.**

Explanation: CICS ONC RPC is unable to continue because of an internal error in the server controller.

System action: In some circumstances, a system dump is taken. CICS ONC RPC is disabled. Message DFHME0116 should be produced containing the symptom string for this problem.

User response: You need further assistance from IBM to resolve this problem. See the *CICS External Interfaces Guide* and Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed. Report the details of the symptom string given in message DFHME0116. It will aid problem determination.

Module: DFHRPMS

XMEOUT Parameters: *date, time,applid, tranid, hostaddr*

Destination: CRPO

DFHRP0589 *date time applid tranid* **The CICS ONC RPC server controller cannot enable CICS ONC RPC because it is not defined with the authority to access the task-related user exit.**

Explanation: The server controller cannot access the task-related user exit. This error can arise only if the supplied definitions for the server controller have been changed.

System action: The server controller abends with abend code ARP2. CICS ONC RPC remains disabled.

User response: Ensure that the supplied definitions for the server controller are used, and reenable CICS ONC RPC.

Module: DFHRPMS

XMEOUT Parameters: *date, time,applid, tranid*

Destination: CRPO

DFHRP0590 *date time applid tranid* **The CICS ONC RPC server controller has received an unexpected response on a call to CICS during CICS ONC RPC enable processing.**

Explanation: CICS ONC RPC enable processing cannot continue because of an error in CICS.

System action: A system dump is taken. The server controller abends with abend code ARP2. CICS ONC RPC remains disabled. Message DFHME0116 should be produced containing the symptom string for this problem.

User response: You need further assistance from IBM to resolve this problem. See the *CICS External Interfaces Guide* and Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed. Report the details of the symptom string given in message DFHME0116. It will aid problem determination.

Module: DFHRPMS

XMEOUT Parameters: *date, time,applid, tranid*

Destination: CRPO

DFHRP0591 *date time applid tranid* **CICS ONC RPC could not be enabled because of an internal error in the server controller.**

Explanation: The server controller cannot start because of an internal error.

System action: A system dump is taken. The server controller abends with abend code ARP2. CICS ONC RPC remains disabled. Message DFHME0116 should be produced containing the symptom string for this problem.

User response: You need further assistance from IBM to resolve this problem. See the *CICS External Interfaces Guide* and Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed. Report the details of the symptom string given in message DFHME0116. It will aid problem determination.

Module: DFHRPMS

XMEOUT Parameters: *date, time,applid, tranid*

Destination: CRPO

DFHRP0592 *date time applid tranid* **The CICS ONC RPC server controller detected an error while polling for client work. Host IP address:** *hostaddr***.**

Explanation: The server controller cannot continue because of an internal error.

System action: CICS ONC RPC is disabled.

User response: You need further assistance from IBM to resolve this problem. See the *CICS External Interfaces*

Guide and Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHRPMS

XMEOUT Parameters: *date, time,applid, tranid, hostaddr*

Destination: CRPO

DFHRP0618 *date time applid tranid* **The CICS ONC RPC server controller cannot link to remote converter** *converter_program_name***. Client IP address:** *clientaddr* **Host IP address:** *hostaddr* **Program:** *X'prognum'* **Version:** *X'versnum'* **Procedure:** *X'procnum'* **Protocol:** *protocol* **Port:** *port* **Socket** *socket***.**

Explanation: The server controller used EXEC CICS LINK to access the converter for **Decode** processing, but got an error response that indicated that the converter was defined as remote. Data pointers are passed to and from the converter, and the referenced data can only be used if the converter runs in the local CICS region.

System action: A system dump is taken. An **svcerr_systemerr** call is used to send a reply to the client. Message DFHME0116 should be produced containing the symptom string for this problem.

User response: Install and define the converter program in the same CICS region as CICS ONC RPC.

Module: DFHRPMS

XMEOUT Parameters: *date, time,applid, tranid, converter_program_name, clientaddr, hostaddr, X'prognum', X'versnum', X'procnum',protocol, port, socket*

Destination: CRPO

DFHRP0620 *date time applid tranid* **The CICS ONC RPC server controller received an unexpected response from CICS when attempting to access converter** *converter_program_name***. Client IP address** *clientaddr* **Host IP address:** *hostaddr* **Program** *X'prognum'* **Version:** *X'versnum'* **Procedure:** *X'procnum'* **Protocol:** *protocol* **Port:** *port* **Socket** *socket***.**

Explanation: A client request has failed because of an error in CICS.

System action: A system dump is taken. An **svcerr_systemerr** call is used to send a reply to the client. Message DFHME0116 should be produced containing the symptom string for this problem.

User response: See the associated diagnostics issued by CICS for problem determination.

Module: DFHRPMS

XMEOUT Parameters: *date, time,applid, tranid, converter_program_name, clientaddr, hostaddr, X'prognum', X'versnum', X'procnum',protocol, port, socket*

Destination: CRPO

DFHRP0621 *date time applid tranid* **The CICS ONC RPC server controller is not authorized to link to converter** *converter_program_name***. Client IP address:** *clientaddr* **Host IP address:** *hostaddr* **Program:** *X'prognum'* **Version:** *X'versnum'* **Procedure:** *X'procnum'* **Protocol:** *protocol* **Port:** *port* **Socket** *socket***.**

Explanation: The server controller cannot access the converter. This error can arise only if the supplied definitions for the server controller have been changed.

System action: A system dump is taken. An **svcerr_systemerr** call is used to send a reply to the client. Message DFHME0116 should be produced containing the symptom string for this problem.

User response: Ensure that the supplied definitions for the server controller are used, and reenable CICS ONC RPC.

Module: DFHRPMS

XMEOUT Parameters: *date, time,applid, tranid, converter_program_name, clientaddr, hostaddr, X'prognum', X'versnum', X'procnum',protocol, port, socket*

Destination: CRPO

DFHRP0625 *date time applid tranid* **The CICS ONC RPC server controller encountered an error during Decode processing in converter** *converter_program_name***. Client IP address:** *clientaddr* **Host IP address:** *hostaddr* **Program:** *X'prognum'* **Version:** *X'versnum'* **Procedure:** *X'procnum'* **Protocol:** *protocol* **Port:** *port* **Socket** *socket***.**

Explanation: **Decode** returned an unexpected response.

System action: An **svcerr_systemerr** call is used to send a reply to the client.

User response: Correct and replace the converter program in question.

Module: DFHRPMS

XMEOUT Parameters: *date, time,applid, tranid, converter_program_name, clientaddr, hostaddr, X'prognum', X'versnum', X'procnum',protocol, port, socket*

Destination: CRPO

DFHRP0626 *date time applid tranid* **The CICS ONC RPC server controller encountered an error during Decode processing in converter** *converter_program_name***. Client IP address:** *clientaddr* **Host IP address:** *hostaddr* **Program:** *X'prognum'* **Version:** *X'versnum'* **Procedure:** *X'procnum'* **Protocol:** *protocol* **Port:** *port* **Socket** *socket***.**

Explanation: **Decode** returned URP_EXCEPTION with a reason of URP_CORRUPT_CLIENT_DATA.

System action: An **svcerr_decode** call is used to send a reply to the client.

User response: Compare the client program and the converter program and change one or the other to make the data formats consistent.

Module: DFHRPMS

XMEOUT Parameters: *date, time,applid, tranid, converter_program_name, clientaddr, hostaddr, X'prognum', X'versnum', X'procnum',protocol, port, socket*

Destination: CRPO

DFHRP0628 *date time applid tranid* **The CICS ONC RPC server controller encountered an error during Decode processing in converter** *converter_program_name***. Client IP address:** *clientaddr* **Host IP address:** *hostaddr* **Program:** *X'prognum'* **Version:** *X'versnum'* **Procedure:** *X'procnum'* **Protocol:** *protocol* **Port:** *port* **Socket** *socket***.**

Explanation: **Decode** returned URP_EXCEPTION with a reason of URP_AUTH_BADCRED.

System action: An **svcerr_auth** call with a why-value of AUTH_BADCRED is used to send a reply to the client.

User response: If the client should be authorized to make this request, compare the client program and the converter, and change one or the other so that authentication requirements match.

Module: DFHRPMS

XMEOUT Parameters: *date, time,applid, tranid, converter_program_name, clientaddr, hostaddr, X'prognum', X'versnum', X'procnum',protocol, port, socket*

Destination: CRPO

DFHRP0629 *date time applid tranid* **The CICS ONC RPC server controller encountered an error during Decode processing in converter** *converter_program_name***. Client IP address:** *clientaddr* **Host IP address:** *hostaddr* **Program:** *X'prognum'* **Version:** *X'versnum'* **Procedure:** *X'procnum'* **Protocol:** *protocol* **Port:** *port* **Socket** *socket***.**

Explanation: **Decode** returned URP_EXCEPTION with a reason of URP_AUTH_TOOWEAK.

System action: An **svcerr_auth** call with a why-value of AUTH_TOOWEAK is used to send a reply to the client.

User response: If the client should be authorized to make this request. compare the client program and the converter, and change one or the other so that authentication requirements match.

Module: DFHRPMS

XMEOUT Parameters: *date, time,applid, tranid, converter_program_name, clientaddr, hostaddr, X'prognum', X'versnum', X'procnum',protocol, port, socket*

Destination: CRPO

DFHRP0631 *date time applid tranid* **The CICS ONC RPC server controller encountered an error in Decode processing in converter** *converter_program_name***. The response was URP_EXCEPTION, but the reason** *decode_reason* **was not recognized. Client IP address** *clientaddr* **Host IP address:** *hostaddr* **Program** *X'prognum'* **Version:** *X'versnum'* **Procedure:** *X'procnum'* **Protocol:** *protocol* **Port:** *port* **Socket** *socket***.**

Explanation: **Decode** returned URP_EXCEPTION with an unrecognized reason code.

System action: An **svcerr_systemerr** call is used to send a reply to the client.

User response: If the reason code returned has a user-defined meaning act accordingly. If the reason code does not have a user-defined meaning, fix the problem with the converter and replace it.

Module: DFHRPMS

XMEOUT Parameters: *date, time,applid, tranid, converter_program_name, decode_reason, clientaddr, hostaddr, X'prognum', X'versnum', X'procnum', protocol, port, socket*

Destination: CRPO

DFHRP0632 *date time applid tranid* **The CICS ONC RPC server controller encountered an error during Decode processing in converter** *converter_program_name***. Client IP address:** *clientaddr* **Host IP address:** *hostaddr* **Program:** *X'prognum'* **Version:** *X'versnum'* **Procedure:** *X'procnum'* **Protocol:** *protocol* **Port:** *port* **Socket** *socket***.**

Explanation: **Decode** returned URP_INVALID.

System action: An **svcerr_systemerr** call is used to send a reply to the client.

User response: The **Decode** parameter area will have

been traced. If the values passed were correct, and the error is in the converter, correct and replace the converter. If the values passed were incorrect, you need further assistance from IBM to resolve this problem. See the *CICS External Interfaces Guide* and Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHRPMS

XMEOUT Parameters: *date, time,applid, tranid, converter_program_name, clientaddr, hostaddr, X'prognum', X'versnum', X'procnum',protocol, port, socket*

Destination: CRPO

DFHRP0635 *date time applid tranid* **The CICS ONC RPC server controller encountered an error during Decode processing in converter** *converter_program_name***. Client IP address:** *clientaddr* **Host IP address:** *hostaddr* **Program:** *X'prognum'* **Version:** *X'versnum'* **Procedure:** *X'procnum'* **Protocol:** *protocol* **Port:** *port* **Socket** *socket***.**

Explanation: **Decode** returned URP_DISASTER.

System action: An **svcerr_systemerr** call is used to send a reply to the client.

User response: Correct and replace the converter.

Module: DFHRPMS

XMEOUT Parameters: *date, time,applid, tranid, converter_program_name, clientaddr, hostaddr, X'prognum', X'versnum', X'procnum',protocol, port, socket*

Destination: CRPO

DFHRP0636 *date time applid tranid* **The CICS ONC RPC server controller was unable to process an incoming client request due to lack of storage. Client IP address:** *clientaddr* **Host IP address** *hostaddr* **Program:** *X'prognum'* **Version:** *X'versnum'* **Procedure:** *X'procnum'* **Protocol:** *protocol* **Port:** *port* **Socket:** *socket***.**

Explanation: An incoming client request could not be processed because there was insufficient storage available.

System action: An **svcerr_systemerr** call is used to send a reply to the client.

User response: If this error occurs persistently, you may need to customize your CICS system to cure the lack of storage.

Module: DFHRPMS

XMEOUT Parameters: *date, time,applid, tranid, clientaddr, hostaddr, X'prognum', X'versnum', X'procnum', protocol, port, socket*

Destination: CRPO

DFHRP0637 *date time applid tranid* **The CICS ONC RPC server controller was unable to process an incoming client request due to an internal error.***clientaddr* **Host IP address:** *hostaddr* **Program:** *X'prognum'* **Version:** *X'versnum'* **Procedure:** *X'procnum'* **Protocol:** *protocol* **Port** *port* **Socket:** *socket***.**

Explanation: An internal error has forced CICS ONC RPC to abandon a client request.

System action: An **svcerr_systemerr** call is used to send a reply to the client.

User response: You need further assistance from IBM to resolve this problem.

Module: DFHRPMS

XMEOUT Parameters: *date, time,applid, tranid, clientaddr, hostaddr, X'prognum', X'versnum', X'procnum', protocol, port, socket*

Destination: CRPO

DFHRP0638 *date time applid tranid* **The CICS ONC RPC server controller was unable to process an incoming client request due to an unexpected error detected when acquiring storage. eibresp** *eibresp* **eibresp2** *eibresp2* **Client IP address** *clientaddr* **Host IP address:** *hostaddr* **Program:** *X'prognum'* **Version:** *X'versnum'* **Procedure:** *X'procnum'* **Protocol:** *protocol* **Port:** *port* **Socket** *socket***.**

Explanation: An incoming client request could not be processed because an unexpected error occurred when obtaining storage to process the request.

System action: An **svcerr_systemerr** call is used to send a reply to the client.

User response: You need assistance from IBM to resove this problem.

Module: DFHRPMS

XMEOUT Parameters: *date, time,applid, tranid, eibresp, eibresp2, clientaddr, hostaddr, X'prognum', X'versnum', X'procnum', protocol, port, socket*

Destination: CRPO

DFHRP0639 *date time applid tranid* **The CICS ONC RPC server controller received an incorrect response on a call made to CICS.**

Explanation: The server controller has received a response that indicates a logic error while calling CICS to establish its initialization information.

System action: The server controller abends with abend code ARP2. Message DFHME0116 should be

produced containing the symptom string for this problem.

User response: You need further assistance from IBM to resolve this problem. See the *CICS External Interfaces Guide* and Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHRPAS

XMEOUT Parameters: *date, time,applid, tranid*

Destination: CRPO

DFHRP0640 *date time applid tranid* **The CICS ONC RPC server controller has been started incorrectly.**

Explanation: The server controller transaction CRPM has been started by a means other than the connection manager program, possibly by a user at a terminal.

System action: The server controller abends with abend code ARP5.

User response: Check that the CRPM transaction id was not entered by a terminal user.

Module: DFHRPMS

XMEOUT Parameters: *date, time,applid, tranid*

Destination: CRPO

DFHRP0663 *date time applid tranid* **The CICS ONC RPC server controller could not start alias transaction** *alias_tranid***. Host IP address:** *hostaddr* **Program:** *prognum* **Version:** *versnum* **Protocol:** *protocol* **Port** *port* **Socket:** *socket* **Client IP address:** *clientaddr*

Explanation: An internal error has prevented the server controller from starting the alias transaction.

System action: An **svcerr_systemerr** call is used to send a reply to the client.

User response: You need further assistance from IBM to resolve this problem. See the *CICS External Interfaces Guide* and Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHRPMS

XMEOUT Parameters: *date, time,applid, tranid, alias_tranid,hostaddr, prognum, versnum, protocol, port, socket, clientaddr*

Destination: CRPO

DFHRP0686 *date time applid tranid* **The CICS ONC RPC server controller encountered an internal error while attempting to start an alias transaction. Client IP address:** *clientaddr* **Host IP address:** *hostaddr* **Program:** *X'prognum'* **Version** *X'versnum'* **Procedure:** *X'procnum'* **Protocol:** *protocol* **Port:** *port* **Socket:** *socket***.**

Explanation: An internal error has prevented the server controller from starting an alias transaction.

System action: A system dump is taken. An **svcerr_systemerr** call is used to send a reply to the client. Message DFHME0116 should be produced containing the symptom string for this problem.

User response: You need further assistance from IBM to resolve this problem. See the *CICS External Interfaces Guide* and Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed. Report the details of the symptom string given in message DFHME0116. It will aid problem determination.

Module: DFHRPMS

XMEOUT Parameters: *date, time,applid, tranid, clientaddr, hostaddr, X'prognum', X'versnum', X'procnum', protocol, port, socket*

Destination: CRPO

DFHRP0687 *date time applid tranid* **The CICS ONC RPC server controller could not start alias transaction** *alias_tranid* **because the CICS default temporary storage data set is full. Client IP address:** *clientaddr* **Host IP address:** *hostaddr* **Program:** *X'prognum'* **Version:** *X'versnum'* **Procedure:** *X'procnum'* **Protocol:** *protocol* **Port:** *port* **Socket:** *socket***.**

Explanation: The server controller cannot start the alias transaction because temporary storage is not available.

System action: A system dump is taken. An **svcerr_systemerr** call is used to send a reply to the client. Message DFHME0116 should be produced containing the symptom string for this problem.

User response: Determine why the CICS default temporary storage data set is full. Enlarge the data set, or alter your CICS load to free space on it.

Module: DFHRPMS

XMEOUT Parameters: *date, time,applid, tranid, alias_tranid,clientaddr, hostaddr, X'prognum',X'versnum', X'procnum', protocol,port, socket*

Destination: CRPO

DFHRP0688 *date time applid tranid* **The CICS ONC RPC server controller detected an error while starting alias transaction** *alias_tranid***. The error indicated that the transaction is remote. Client IP address:** *clientaddr* **Host IP address** *hostaddr* **Program:** *X'prognum'* **Version:** *X'versnum'* **Procedure:** *X'procnum'* **Protocol:** *protocol* **Port:** *port* **Socket:** *socket***.**

Explanation: The alias transaction is defined as remote, but aliases must run in the same CICS region as CICS ONC RPC.

System action: A system dump is taken. An **svcerr_systemerr** call is used to send a reply to the client. Message DFHME0116 should be produced containing the symptom string for this problem.

User response: Define the alias as a local transaction.

Module: DFHRPMS

XMEOUT Parameters: *date, time,applid, tranid, alias_tranid,clientaddr, hostaddr, X'prognum',X'versnum', X'procnum', protocol,port, socket*

Destination: CRPO

DFHRP0689 *date time applid tranid* **The CICS ONC RPC server controller tried to start alias transaction** *alias-tranid***, but the surrogate user security check failed. Client IP address** *clientaddr* **Host IP address:** *hostaddr* **Program** *X'prognum'* **Version:** *X'versnum'* **Procedure:** *X'procnum'* **Protocol:** *protocol* **Port:** *port* **Socket** *socket***.**

Explanation: An attempt by a user ID to access an alias transaction failed because of a security check. This may not be an error as you may wish to prevent the client involved from accessing the alias transaction.

System action: An **svcerr_auth** call with a why-value of AUTH_TOOWEAK is used to send a reply to the client.

User response: If you wish the user ID to access the alias, reenable CICS ONC RPC with a different value for CRPM Userid, or alter your surrogate user ID tables.

Module: DFHRPMS

XMEOUT Parameters: *date, time,applid, tranid, alias-tranid,clientaddr, hostaddr, X'prognum',X'versnum', X'procnum', protocol,port, socket*

Destination: CRPO

DFHRP0690 *date time applid tranid* **The CICS ONC RPC server controller received an unexpected response from CICS while starting alias transaction** *alias-tranid***. Client IP address:** *clientaddr* **Host IP address:** *hostaddr* **Program:** *X'prognum'* **Version:** *X'versnum'* **Procedure:** *X'procnum'* **Protocol:** *protocol* **Port:** *port* **Socket** *socket***.**

Explanation: A client request has failed because of an error in CICS.

System action: A system dump is taken. An **svcerr_systemerr** call is used to send a reply to the client. Message DFHME0116 should be produced containing the symptom string for this problem.

User response: See the associated diagnostics issued by CICS for problem determination.

Module: DFHRPMS

XMEOUT Parameters: *date, time,applid, tranid, alias-tranid,clientaddr, hostaddr, X'prognum',X'versnum', X'procnum', protocol,port, socket*

Destination: CRPO

DFHRP0691 *date time applid tranid* **The CICS ONC RPC server controller found that the user ID attempting to access alias transaction** *alias-tranid* **is not known to the external security manager. Client IP address:** *clientaddr* **Host IP address:** *hostaddr* **Program:** *X'prognum'* **Version:** *X'versnum'* **Procedure:** *X'procnum'* **Protocol:** *protocol* **Port:** *port* **Socket:** *socket***.**

Explanation: The server controller could not start the alias with the user ID because the user ID is not known to the external security manager.

System action: An **svcerr_auth** call with a why-value of AUTH_TOOWEAK is used to send a reply to the client.

User response: If you wish the alias to run under this user ID, define the userid to the external security manager, and change your surrogate user ID tables.

Module: DFHRPMS

XMEOUT Parameters: *date, time,applid, tranid, alias-tranid,clientaddr, hostaddr, X'prognum',X'versnum', X'procnum', protocol,port, socket*

Destination: CRPO

DFHRP0692 *date time applid tranid* **The CICS ONC RPC server controller found that the external security manager cannot validate the user ID for alias transaction** *alias-tranid***. Client IP address** *clientaddr* **Host IP address:** *hostaddr* **Program** *X'prognum'* **Version:** *X'versnum'* **Procedure:** *X'procnum'* **Protocol:** *protocol* **Port:** *port* **Socket** *socket***.**

Explanation: An attempt to start the alias with an alias user ID failed as the external security manager cannot determine whether the user ID is valid.

System action: An **svcerr_systemerr** call is used to send a reply to the client.

User response: Determine the reason why the external security manager was unable to perform the request.

Module: DFHRPMS

XMEOUT Parameters: *date, time,applid, tranid, alias-tranid,clientaddr, hostaddr, X'prognum',X'versnum', X'procnum', protocol,port, socket*

Destination: CRPO

DFHRP0694 *date time applid tranid* **The CICS ONC RPC server controller could not start alias transaction** *alias_tranid* **because it is not defined. Client IP address:** *clientaddr* **Host IP address:** *hostaddr* **Program:** *X'prognum'* **Version:** *X'versnum'* **Procedure:** *X'procnum'* **Protocol:** *protocol* **Port:** *port* **Socket** *socket***.**

Explanation: The alias transaction *alias_tranid* is missing or is not correctly defined.

System action: An **svcerr_systemerr** call is used to send a reply to the client.

User response: Define the alias transaction correctly, or change the definitions of the 4-tuples that refer to it.

Module: DFHRPMS

XMEOUT Parameters: *date, time,applid, tranid, alias_tranid,clientaddr, hostaddr, X'prognum',X'versnum', X'procnum', protocol,port, socket*

Destination: CRPO

DFHRP0697 *date time applid tranid* **The CICS ONC RPC server controller has started exception disable of CICS ONC RPC. Host IP address:** *hostaddr***.**

Explanation: The server controller has started an exception disable of CICS ONC RPC following an error during its operation. The error has already been reported.

System action: Disable processing continues.

User response: See the associated diagnostics for further information about the error.

Module: DFHRPMS

XMEOUT Parameters: *date, time,applid, tranid, hostaddr*

Destination: CRPO

DFHRP0723 *date time applid tranid* **The CICS ONC RPC server controller has detected an error when attempting to shut down the RPC caller.**

Explanation: During CICS ONC RPC disable processing, the server controller shuts down the RPC Caller, but received an error response.

System action: Disable processing continues.

User response: If message DFHRP0002 was issued to the console, the explanation of that message might contain more information. If the problem is not a symptom of a wider problem, you need further assistance from IBM to resolve this problem. See the *CICS External Interfaces Guide* and Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHRPMS

XMEOUT Parameters: *date, time,applid, tranid*

Destination: CRPO

DFHRP0724 *date time applid tranid* **The CICS ONC RPC server controller has detected an error when attempting to issue a FREEMAIN for the RPC caller program.**

Explanation: During CICS ONC RPC disable processing, the server controller issues a FREEMAIN for the RPC caller program to remove it from storage, but received an error response. This could either be as a result of problems with CICS which will probably be reflected in CICS diagnostics, or as a result of problems with CICS ONC RPC, which will probably be reflected in other CICS ONC RPC diagnostics.

System action: Disable processing continues.

User response: It might not be possible to reenable CICS ONC RPC without restarting CICS. If the problem is not a symptom of a wider problem, you need further assistance from IBM to resolve this problem. See the *CICS External Interfaces Guide* and Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHRPMS

XMEOUT Parameters: *date, time,applid, tranid*

Destination: CRPO

DFHRP0725 *date time applid tranid* **The CICS ONC RPC server controller has detected an error when attempting to issue a RELEASE for the alias list program.**

Explanation: During CICS ONC RPC disable processing, the server controller releases the alias list program, but received an error response.

System action: Disable processing continues.

User response: It might not be possible to reenable CICS ONC RPC without restarting CICS. If this error is not associated with others, you need further assistance from IBM to resolve this problem. See the *CICS External Interfaces Guide* and Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHRPMS

XMEOUT Parameters: *date, time,applid, tranid*

Destination: CRPO

DFHRP0726 *date time applid tranid* **During disable processing, the CICS ONC RPC server controller found that the task-related user exit was already disabled.**

Explanation: During disable processing, the server controller found that the task-related user exit was already disabled or that it has not been defined as an exit. This is probably the result of operator intervention.

System action: Disable processing continues.

User response: Take steps to prevent operator interference with the task-related user exit.

Module: DFHRPMS

XMEOUT Parameters: *date, time,applid, tranid*

Destination: CRPO

DFHRP0727 *date time applid tranid* **During disable processing, the CICS ONC RPC server controller found that the task-related user exit is in use by another task.**

Explanation: During disable processing, the server controller found that the task-related user exit is currently invoked by another task. This may be a temporary condition, or it may be that the task related user exit has already been disabled.

System action: Disable processing continues.

User response: Investigate whether the operator has disabled the task related user exit DFHRPTRU for any reason.

Module: DFHRPMS

XMEOUT Parameters: *date, time,applid, tranid*

Destination: CRPO

DFHRP0728 *date time applid tranid* **The CICS ONC RPC server controller received an unexpected response from CICS while disabling the task-related user exit.**

Explanation: An error occurred in CICS when the server controller tried to disable the task-related user exit during CICS ONC RPC disable processing.

System action: A system dump is taken. Disable processing continues. Message DFHME0116 should be produced containing the symptom string for this problem.

User response: See the associated diagnostics issued by CICS for problem determination.

Module: DFHRPMS

XMEOUT Parameters: *date, time,applid, tranid*

Destination: CRPO

DFHRP0729 *date time applid tranid* **The CICS ONC RPC server controller has detected an internal error during disable processing.**

Explanation: CICS ONC RPC has detected an internal error during disable processing.

System action: Disable processing continues.

User response: If the problem is not a symptom of a wider problem, you need further assistance from IBM to resolve this problem. See the *CICS External Interfaces Guide* and Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHRPMS

XMEOUT Parameters: *date, time,applid, tranid*

Destination: CRPO

DFHRP0730 *date time applid tranid* **The CICS ONC RPC server controller does not have authorization to access the task-related user exit.**

Explanation: During disable processing, the server controller found that it did not have the authorization to access the task-related user exit. This problem arises if the supplied definitions of the server controller are changed. Changes to these definitions are not allowed.

System action: Disable processing continues.

User response: Ensure that the supplied definitions for the server controller are used, and reenable CICS ONC RPC.

Module: DFHRPMS

XMEOUT Parameters: *date, time,applid, tranid*

Destination: CRPO

DFHRP0731 *date time applid tranid* **The CICS ONC RPC server controller has detected an internal error during disable processing.**

Explanation: CICS ONC RPC has detected an internal error during disable processing.

System action: Disable processing continues.

User response: If the problem is not a symptom of a wider problem, you need further assistance from IBM to resolve this problem. See the *CICS External Interfaces Guide* and Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHRPMS

XMEOUT Parameters: *date, time,applid, tranid*

Destination: CRPO

DFHRP0732 *date time applid tranid* **The CICS ONC RPC server controller has detected an internal error during disable processing.**

Explanation: During disable processing, the server controller attempted to unregister for problem determination, but received an error response.

System action: Disable processing continues.

User response: If the problem is not a symptom of a wider problem, you need further assistance from IBM to resolve this problem. See the *CICS External Interfaces Guide* and Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHRPMS

XMEOUT Parameters: *date, time,applid, tranid*

Destination: CRPO

DFHRP0735 *date time applid tranid* **The CICS ONC RPC server controller HANDLE ABEND code was entered as a result of an error in the Decode function in converter** *converter_program_name*. **Client IP address:** *clientaddr* **Host IP address:** *hostaddr* **Program** *X'prognum'* **Version:** *X'versnum'* **Procedure:** *X'procnum'* **Protocol:** *protocol* **Port:** *port* **Socket** *socket*.

Explanation: An error has occurred in **Decode** in converter *converter_program_name*. Because the converter does not contain HANDLE ABEND logic, the error has percolated to the server controller.

System action: An **svcerr_systemerr** call is used to send a reply to the client.

User response: Correct the error in the converter. Add handle abend logic to the converter so that it can handle its own errors, and replace it.

Module: DFHRPMS

XMEOUT Parameters: *date, time,applid, tranid, converter_program_name, clientaddr, hostaddr, X'prognum', X'versnum', X'procnum',protocol, port, socket*

Destination: CRPO

DFHRP0736 *date time applid tranid* **The CICS ONC RPC server controller has encountered an internal error while processing a client request. Client IP address:** *clientaddr* **Host IP address** *hostaddr* **Program:** *X'prognum'* **Version:** *X'versnum'* **Procedure:** *X'procnum'* **Protocol:** *protocol* **Port:** *port* **Socket:** *socket*.

Explanation: An internal error has forced CICS ONC RPC to abandon a client request.

System action: A system dump is taken. An **svcerr_systemerr** call is used to send a reply to the client. Message DFHME0116 should be produced containing the symptom string for this problem.

User response: You need further assistance from IBM to resolve this problem. See the *CICS External Interfaces Guide* and Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed. Report the details of the symptom string given in message DFHME0116. It will aid problem determination.

Module: DFHRPMS

XMEOUT Parameters: *date, time,applid, tranid, clientaddr, hostaddr, X'prognum', X'versnum', X'procnum', protocol, port, socket*

Destination: CRPO

DFHRP0737 *date time applid tranid* **The CICS ONC RPC server controller has encountered an internal error. Host IP address** *hostaddr*.

Explanation: The server controller has encountered an internal error and cannot continue.

System action: A system dump is taken. CICS ONC RPC is disabled. Message DFHME0116 should be produced containing the symptom string for this problem.

User response: You need further assistance from IBM to resolve this problem. See the *CICS External Interfaces Guide* and Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed. Report the details of the symptom string given in message DFHME0116. It will aid problem determination.

Module: DFHRPMS

XMEOUT Parameters: *date, time,applid, tranid, hostaddr*

Destination: CRPO

DFHRP0741 *date time applid tranid* **The CICS ONC RPC server controller is abending with abend code ARP4.**

Explanation: The server controller encountered an error and cannot continue.

System action: CICS ONC RPC is disabled. CICS ONC RPC has already issued other diagnostics giving further information about the error. The server controller abends with abend code ARP4.

User response: See the associated diagnostics and the description of abend code ARP4 for further guidance.

Module: DFHRPMS

XMEOUT Parameters: *date, time,applid, tranid*

Destination: CRPO

DFHRP0746 *date time applid tranid* **The CICS ONC RPC server controller is abending with abend code ARP2.**

Explanation: The server controller encountered an error and cannot continue.

System action: The server controller abends with abend code ARP2. CICS ONC RPC is disabled.

User response: See the associated diagnostics and the description of abend code ARP2 for further guidance.

Module: DFHRPMS

XMEOUT Parameters: *date, time,applid, tranid*

Destination: CRPO

DFHRP0747 *date time applid tranid* **The CICS ONC RPC server controller is abending with abend code ARP2.**

Explanation: The server controller has encountered an error and cannot continue.

System action: The server controller abends with abend code ARP2. CICS ONC RPC is disabled.

User response: See the associated diagnostics and the description of abend code ARP2 for further guidance.

Module: DFHRPMS

XMEOUT Parameters: *date, time,applid, tranid*

Destination: CRPO

DFHRP0749 *date time applid tranid* **The CICS ONC RPC server controller has encountered an internal error when no client request was being processed. Host IP address:** *hostaddr***.**

Explanation: An internal error has occurred in the server controller. No client requests are affected.

System action: A system dump is taken. The server controller continues. Message DFHME0116 should be produced containing the symptom string for this problem.

User response: You need further assistance from IBM to resolve this problem. See the *CICS External Interfaces Guide* and Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed. Report the details of the symptom string given in message DFHME0116. It will aid problem determination.

Module: DFHRPMS

XMEOUT Parameters: *date, time,applid, tranid, hostaddr*

Destination: CRPO

DFHRP1000 *date time applid* **The CICS ONC RPC RPC caller is initializing.**

Explanation: The server controller has started initialization of the RPC caller.

System action: Processing continues.

User response: None.

Module: DFHRPRP

XMEOUT Parameters: *date, time,applid*

Destination: CRPO

DFHRP1001 *date time applid* **The CICS ONC RPC RPC caller has been initialized successfully.**

Explanation: The RPC caller has been initialized, and it is now ready for use.

System action: Processing continues.

User response: None.

Module: DFHRPRP

XMEOUT Parameters: *date, time,applid*

Destination: CRPO

DFHRP1002 *date time applid* **The CICS ONC RPC RPC caller is shutting down.**

Explanation: Termination of the RPC caller has started.

System action: Processing continues.

User response: None.

Module: DFHRPRP

XMEOUT Parameters: *date, time,applid*

Destination: CRPO

DFHRP1003 *date time applid* **The CICS ONC RPC RPC caller has successfully shutdown.**

Explanation: Termination of the RPC caller has completed.

System action: Processing continues.

User response: None.

Module: DFHRPRP

XMEOUT Parameters: *date, time,applid*

Destination: CRPO

DFHRP1500 *date time applid tranid* **Invalid data has been entered in field** *fieldname***.**

Explanation: Invalid data was entered on a connection manager panel in field *fieldname*.

System action: The panel is redisplayed and the field in error is highlighted.

User response: Enter valid data in the field indicated. See the *CICS External Interfaces Guide* for further guidance.

Module: DFHRPC06, DFHRPC10, DFHRPC0A, DFHRPC1B

Destination: Terminal End User

DFHRP1501 *date time applid tranid* **The value entered in field** *fieldname* **exceeds the maximum allowed.**

Explanation: The value entered on a connection manager panel in field *fieldname* exceeds the maximum allowed.

System action: The panel is redisplayed and the field in error is highlighted.

User response: Enter valid data in the field indicated. See the *CICS External Interfaces Guide* for further guidance.

Module: DFHRPC0B

Destination: Terminal End User

DFHRP1505 *date time applid tranid* **The CICS ONC RPC connection manager has not been started correctly.**

Explanation: The connection manager has been started from a non-BMS terminal but is not being used to enable or disable CICS ONC RPC.

System action: The connection manager terminates.

User response: The connection manager can be used as follows from a non-BMS terminal

- If CICS ONC RPC is disabled, the connection manager can be used for automatic enable, either by setting automatic enable to YES on the CICS ONC RPC data set or by entering a fast path command with YES for automatic enable.
- If CICS ONC RPC is enabled, the connection manager can be used for disable by entering a valid disable fast path command.

See the *CICS External Interfaces Guide* for guidance on how to start the connection manager.

Module: DFHRPC01

XMEOUT Parameters: *date, time,applid, tranid*

Destination: CRPO

DFHRP1506 *date time applid tranid* **The CICS ONC RPC connection manager detected an error attempting to retrieve any fast path data. EIBRESP:** *eibresp***.**

Explanation: The connection manager was attempting to retrieve any fast path commands that may have been specified when it was initiated. The connection manager issued an EXEC CICS GETMAIN command, but received the response *eibresp*.

System action: A system dump is taken. The connection manager continues but any fast path commands are ignored. Message DFHME0116 should be produced containing the symptom string for this problem.

User response: You need further assistance from IBM to resolve this problem. See the *CICS External Interfaces Guide* and Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed. Report the details of the symptom string given in message DFHME0116. It will aid problem determination.

Module: DFHRPC01

XMEOUT Parameters: *date, time,applid, tranid, eibresp*

Destination: CRPO

DFHRP1507 *date time applid tranid* **An invalid CICS ONC RPC fast path command has been entered:** *fastpath_command*

Explanation: The connection manager was started by entering a fast path command, but the format of the command was invalid.

System action: The connection manager is started, but fast path commands are ignored.

User response: Enter a valid fast path command. See the *CICS External Interfaces Guide* for further guidance.

Module: DFHRPC01

XMEOUT Parameters: *date, time,applid, tranid, fastpath_command*

Destination: CRPO

DFHRP1508 *date time applid tranid* **The CICS ONC RPC connection manager has not been started correctly.**

Explanation: The connection manager was attempting to retrieve any fast path commands that may have been specified when it was initiated, but detected an invalid STARTCODE indicator.

System action: The connection manager continues but any fast path commands are ignored.

User response: See the *CICS External Interfaces Guide* for guidance on how to start the connection manager. If the connection manager was started correctly, you need further assistance from IBM to resolve this problem. See the *CICS External Interfaces Guide* and Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHRPC01

XMEOUT Parameters: *date, time,applid, tranid*

Destination: CRPO

DFHRP1509 *date time applid tranid* **The CICS ONC RPC connection manager detected an error attempting to retrieve any fast path data. EIBRESP:** *eibresp***.**

Explanation: The connection manager was attempting to retrieve any fast path commands that may have been specified when it was initiated using an EXEC CICS START command. The connection manager issued an EXEC CICS RETRIEVE command, but received the response *eibresp*.

System action: A system dump is taken. The connection manager continues but any fast path commands are ignored. Message DFHME0116 should be produced containing the symptom string for this problem.

User response: You need further assistance from IBM to resolve this problem. See the *CICS External Interfaces Guide* and Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed. Report the details of the symptom string given in message DFHME0116. It will aid problem determination.

Module: DFHRPC01

XMEOUT Parameters: *date, time,applid, tranid, eibresp*

Destination: CRPO

DFHRP1510 *date time applid tranid* **The CICS ONC RPC connection manager detected an error while accessing the CICS ONC RPC data set, CICS file** *filename***. EIBRESP:** *eibresp***.**

Explanation: The connection manager could not access the CICS ONC RPC data set, CICS file *filename*. An EXEC CICS READ was issued, but received the response *eibresp*. The data set has not been correctly defined to CICS for one of the following reasons

- No file definition has been found for *filename*. CICS ONC RPC has therefore not been installed correctly.
- READ operations are not allowed on the file.
- The file is DISABLED, either due to an incorrect file definition, or due to operator intervention.
- The file cannot be opened because it has not been defined correctly, or because it has been closed by operator intervention.
- The connection manager transaction, or the user running it, does not have the necessary level of authority to access the file.

System action: The requested operation is not performed.

User response: Use Appendix A of the *Application Programming Reference* manual to find out what the EIBRESP value means, and take appropriate action.

Module: DFHRPC09

XMEOUT Parameters: *date, time,applid, tranid, filename, eibresp*

Destination: CRPO

DFHRP1511 *date time applid tranid* **The CICS ONC RPC connection manager has detected a logic error accessing the CICS ONC RPC data set, CICS file** *filename***.**

Explanation: The connection manager received an unexpected error when accessing the CICS ONC RPC data set, CICS file *filename*. This is a logic error. The connection manager has received an unexpected response from CICS following an EXEC CICS command.

System action: A system dump is taken. The requested operation is not performed. Message DFHME0116 should be produced containing the symptom string for this problem.

User response: You need further assistance from IBM to resolve this problem. See the *CICS External Interfaces Guide* and Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed. Report the details of the symptom string given in message DFHME0116. It will aid problem determination.

Module: DFHRPC09

XMEOUT Parameters: *date, time,applid, tranid, filename*

Destination: CRPO

DFHRP1512 *date time applid tranid* **The CICS ONC RPC connection manager cannot access the CICS ONC RPC data set, CICS file** *filename***.**

Explanation: The connection manager could not access the CICS ONC RPC data set, CICS file *filename*. The data set has not been correctly defined to CICS for one of the following reasons

- No file definition has been found for *filename*. CICS ONC RPC has therefore not been installed correctly.
- READ operations are not allowed on the file.
- The file has been disabled, either due to an incorrect data set definition, or due to operator intervention.
- The file cannot be opened because it has not been defined correctly, or because it has been closed by operator intervention.
- The connection manager transaction, or the user running the connection manager, does not have the necessary level of authority to access the file.

System action: The message is displayed at the terminal.

User response: Ensure that all the CEDA groups for CICS ONC RPC have been installed correctly.

Investigate whether the operator has changed the status of the file for any reason.

Module: DFHRPC01

XMEOUT Parameters: *date, time,applid, tranid, filename*

Destination: CRPO

DFHRP1513 *date time applid tranid* **The CICS ONC RPC connection manager has detected invalid data in the definition record of the CICS ONC RPC data set, CICS file** *filename***.**

Explanation: The connection manager detected an error in the definition record in the CICS ONC RPC data set.

System action: A system dump is taken. CICS ONC RPC is disabled. Message DFHME0116 should be produced containing the symptom string for this problem.

User response: Ensure that the first record in the data set has been correctly initialized. You can do this by manually updating the record (see the *CICS External Interfaces Guide* for further guidance), or by deleting the first record in the data set, and rerunning the connection manager. This creates a new definition record using the default settings which can then be updated using the connection manager panels.

Module: DFHRPC01

XMEOUT Parameters: *date, time,applid, tranid, filename*

Destination: CRPO

DFHRP1514 *date time applid tranid* **The CICS ONC RPC connection manager has detected that the CICS ONC RPC global work area does not have the expected length.**

Explanation: The connection manager detected that the length of the associated global work area is not correct.

System action: A system dump is taken. CICS ONC RPC is disabled. It is not possible to enable CICS ONC RPC until the problem is resolved. Message DFHME0116 should be produced containing the symptom string for this problem.

User response: Make sure that no user-written version of program DFHRPTRU is being used. Only the CICS ONC RPC supplied program can be used with CICS ONC RPC. Similarly, the CICS ONC RPC supplied task-related user exit DFHRPTRU should only be enabled and disabled by the connection manager. It should not be necessary to enable or disable DFHRPTRU in any other way.

Module: DFHRPC01

XMEOUT Parameters: *date, time,applid, tranid*

Destination: CRPO

DFHRP1515 *date time applid tranid* **The CICS ONC RPC connection manager detected an error while accessing the CICS ONC RPC data set, CICS file** *filename***. EIBRESP:** *eibresp***.**

Explanation: The connection manager could not access the CICS ONC RPC data set, CICS file *filename*. An EXEC CICS READ was issued, but received the response *eibresp*. The error can occur for one of the following reasons

- The file is defined as remote, and there is an error on the connection to the owning system.
- VSAM has returned an unexpected response to CICS.
- An I/O error occurred on the READ.

System action: A system dump is taken. The requested operation is not performed. Message DFHME0116 should be produced containing the symptom string for this problem.

User response: Use Appendix A of the *Application Programming Reference* manual to find out what the EIBRESP value means, and take appropriate action.

Module: DFHRPC09

XMEOUT Parameters: *date, time,applid, tranid, filename, eibresp*

Destination: CRPO

DFHRP1516 *date time applid tranid* **The CICS ONC RPC connection manager cannot access the feature definition record in the CICS ONC RPC data set, CICS file** *filename***.**

Explanation: The connection manager found that the CICS ONC RPC definition record is missing from the CICS ONC RPC data set, CICS file *filename*, while processing a request to update this record.

System action: A system dump is taken. The connection manager panel is redisplayed. The CICS ONC RPC definition record cannot be updated. Message DFHME0116 should be produced containing the symptom string for this problem.

User response: Investigate the reason why this record does not exist. You must create a new CICS ONC RPC definition record with the connection manager.

Module: DFHRPC09

XMEOUT Parameters: *date, time,applid, tranid, filename*

Destination: CRPO

DFHRP1518 *date time applid tranid* **The CICS ONC RPC connection manager cannot find the global work area.**

Explanation: The connection manager cannot access its global work area.

System action: A system dump is taken. The connection manager continues, but CICS ONC RPC cannot be enabled. Message DFHME0116 should be produced containing the symptom string for this problem.

User response: End the connection manager. Ensure that all the CEDA groups containing the CICS ONC RPC definitions have been correctly installed. Then try running the connection manager again.

Investigate whether the operator has disabled the task-related user exit DFHRPTRU.

Module: DFHRPC01

XMEOUT Parameters: *date, time,applid, tranid*

Destination: CRPO

DFHRP1519 *date time applid tranid* **The CICS ONC RPC connection manager cannot find the task-related user exit.**

Explanation: The connection manager cannot access its task-related user exit for one of the following reasons

- DFHRPTRU has not been defined to CICS
- DFHRPTRU is not in the CICS load library
- DFHRPTRU has been disabled

System action: A system dump is taken. CICS ONC RPC is disabled. Message DFHME0116 should be produced containing the symptom string for this problem.

User response: End the connection manager. Ensure that all the CEDA groups containing CICS ONC RPC definitions have been installed correctly. Then try running the connection manager again.

If CICS ONC RPC has been correctly installed, check that the operator has not disabled DFHRPTRU.

Module: DFHRPC01

XMEOUT Parameters: *date, time,applid, tranid*

Destination: CRPO

DFHRP1520 *date time applid tranid* **The CICS ONC RPC connection manager is not authorized to access its task related user exit. EIBRESP2:** *eibresp2***.**

Explanation: The connection manager used EXEC CICS EXTRACT EXIT to find the task-related user exit, but got a NOTAUTH response.

System action: A system dump is taken. CICS ONC RPC is disabled. Message DFHME0116 should be produced containing the symptom string for this problem.

User response: Use the EIBRESP2 value to identify the problem.

Module: DFHRPC01

XMEOUT Parameters: *date, time,applid, tranid, eibresp2*

Destination: CRPO

DFHRP1521 *date time applid tranid* **The CICS ONC RPC connection manager cannot access its task related user exit.**

Explanation: The connection manager cannot access the task related user exit. It received an unexpected response to an EXEC CICS EXTRACT EXIT call.

System action: A system dump is taken. CICS ONC RPC is disabled. Message DFHME0116 should be produced containing the symptom string for this problem.

User response: You need further assistance from IBM to resolve this problem. See the *CICS External Interfaces Guide* and Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed. Report the details of the symptom string given in message DFHME0116. It will aid problem determination.

Module: DFHRPC01

XMEOUT Parameters: *date, time,applid, tranid*

Destination: CRPO

DFHRP1522 *date time applid tranid* **The CICS ONC RPC connection manager has been started against an invalid terminal.**

Explanation: The connection manager has been started against a terminal that is not supported, for example, an LUTYPE6 terminal.

System action: The connection manager abends with abend code ARPX.

User response: Start the connection manager against a valid terminal. See the *CICS External Interfaces Guide* for further guidance on starting the connection manager.

Module: DFHRPC01

XMEOUT Parameters: *date, time,applid, tranid*

Destination: CRPO

DFHRP1523 *date time applid tranid* **CICS ONC RPC cannot be enabled because the connection manager cannot access the task-related user exit DFHRPTRU.**

Explanation: The connection manager could not enable CICS ONC RPC because an error occurred accessing the task related user exit DFHRPTRU.

System action: A system dump is taken. This instance of connection manager can only be used to inquire on, or update the CICS ONC RPC data set. Message DFHME0116 should be produced containing the symptom string for this problem.

User response: See the CRPO transient data queue for messages indicating the nature of the error, and take the appropriate action. Then restart the connection manager transaction and select the enable option again.

Module: DFHRPC01

XMEOUT Parameters: *date, time,applid, tranid*

Destination: CRPO

DFHRP1524 *date time applid tranid* **CICS ONC RPC cannot be enabled because the server controller is already running.**

Explanation: The connection manager detected that the task-related user exit DFHRPTRU is disabled, but the server controller transaction is still running.

System action: A system dump is taken. This instance of connection manager can only be used to inquire on, or update, the CICS ONC RPC data set. Message DFHME0116 should be produced containing the symptom string for this problem.

User response: Investigate why the last attempt to disable CICS ONC RPC did not complete successfully. Investigate the possibility of operator intervention.

Once you have established that it is safe to continue, use CEMT SET TASK or EXEC CICS SET TASK to purge the server controller. Then run the connection manager again to enable CICS ONC RPC.

Module: DFHRPC01

XMEOUT Parameters: *date, time,applid, tranid*

Destination: CRPO

DFHRP1525 *date time applid tranid* **The CICS ONC RPC connection manager received an unexpected response from CICS.**

Explanation: The connection manager detected a logic error. It received an unexpected response to a CICS command.

System action: A system dump is taken. Processing continues. Message DFHME0116 should be produced containing the symptom string for this problem.

User response: You need further assistance from IBM to resolve this problem. See the *CICS External Interfaces Guide* and Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed. Report the details of the symptom string given in message DFHME0116. It will aid problem determination.

Module: DFHRPC01

XMEOUT Parameters: *date, time,applid, tranid*

Destination: CRPO

DFHRP1526 *date time applid tranid* **The CICS ONC RPC connection manager found that the task-related user exit is enabled, but the server controller is not running.**

Explanation: The connection manager has detected that the task-related user exit DFHRPTRU is enabled, but the server controller is not running. This means that CICS ONC RPC is in an indeterminate state.

System action: This instance of connection manager can only be used to inquire on, or update, the CICS ONC RPC data set.

User response: Investigate whether the previous attempt to disable CICS ONC RPC completed successfully. Alternatively, the server controller task may have been forcepurged by the operator.

Once you have established that it is safe to continue, try running the connection manager again and enabling CICS ONC RPC.

Module: DFHRPC01

XMEOUT Parameters: *date, time,applid, tranid*

Destination: CRPO

DFHRP1527 *date time applid tranid* **CICS ONC RPC cannot be enabled because disable processing has not completed.**

Explanation: CICS ONC RPC is being disabled.

System action: The current instance of CICS ONC RPC is disabled.

User response: Wait for disable to complete before attempting to enable the CICS ONC RPC again.

Module: DFHRPC4C

XMEOUT Parameters: *date, time,applid, tranid*

Destination: CRPO and Terminal End User

DFHRP1528 *date time applid tranid* **The CICS ONC RPC connection manager detected an error while initializing the RPC caller component during CICS ONC RPC enable processing.**

Explanation: The RPC caller could not be started.

System action: The enable attempt is abandoned.

User response: If message DFHRP0002 was issued to the console, the explanation of that message might contain more information. You need further assistance from IBM to resolve this problem. See the *CICS External Interfaces Guide* and Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHRPC4C

XMEOUT Parameters: *date, time,applid, tranid*

Destination: CRPO and Terminal End User

DFHRP1529 *date time applid tranid* **The CICS ONC RPC connection manager detected an error in enable processing. Host IP address** *hostaddr***.**

Explanation: The connection manager discovered a storage problem while trying to enable CICS ONC RPC.

System action: A system dump is taken. The enable attempt is abandoned. Message DFHME0116 should be produced containing the symptom string for this problem.

User response: See the associated diagnostics issued by CICS for problem determination.

See the *CICS Problem Determination Guide* for guidance on dealing with storage problems.

Module: DFHRPC4C

XMEOUT Parameters: *date, time,applid, tranid, hostaddr*

Destination: CRPO and Terminal End User

DFHRP1530 *date time applid tranid* **The CICS ONC RPC connection manager detected a CICS short on storage condition during initialization of the RPC caller component. Host IP address** *hostaddr***.**

Explanation: The connection manager detected a short on storage condition.

System action: The enable attempt is abandoned.

User response: See the associated diagnostics issued by CICS for problem determination. See the *CICS Problem Determination Guide* for guidance on dealing with storage problems.

When the short on storage problem has been resolved, try to enable CICS ONC RPC again.

Module: DFHRPC4C

XMEOUT Parameters: *date, time,applid, tranid, hostaddr*

Destination: CRPO and Terminal End User

DFHRP1531 *date time applid tranid* **The CICS ONC RPC connection manager detected an error while accessing the CICS ONC RPC data set, CICS file** *filename***. EIBRESP:** *eibresp***.**

Explanation: The connection manager could not access the CICS ONC RPC data set, CICS file *filename*. An EXEC CICS WRITE was issued, but received the response *eibresp*. The error can occur for one of the following reasons

- No file definition has been found for the file, implying that CICS ONC RPC has not been installed correctly.
- Write operations are not allowed, implying that CICS ONC RPC has not been installed correctly.
- The file is DISABLED, either due to an incorrect file definition, or due to operator intervention.
- The file is NOTOPEN, either due to an incorrect file definition or due to operator intervention.
- Write operations are not authorized, implying that security has not been set up correctly.

System action: The requested operation is not performed.

User response: Use Appendix A of the *Application Programming Reference* manual to find out what the EIBRESP value means, and take appropriate action.

Module: DFHRPC09

XMEOUT Parameters: *date, time,applid, tranid, filename, eibresp*

Destination: CRPO

DFHRP1532 *date time applid tranid* **The CICS ONC RPC connection manager detected an error while accessing the CICS ONC RPC data set, CICS file** *filename***. EIBRESP:** *eibresp***.**

Explanation: The connection manager could not access the CICS ONC RPC data set, CICS file *filename*. An EXEC CICS WRITE was issued, but received the response *eibresp*. The error can occur for one of the following reasons

- The file is defined as remote, and there is an error on the connection to the owning system.
- VSAM has returned an unexpected response to CICS.
- An I/O error occurred on the WRITE.
- There is insufficient space available on the DASD device containing the data set.

System action: A system dump is taken. The requested operation is not performed. Message DFHME0116 should be produced containing the symptom string for this problem.

User response: Use Appendix A of the *Application Programming Reference* manual to find out what the EIBRESP value means, and take appropriate action.

Module: DFHRPC09

XMEOUT Parameters: *date, time,applid, tranid, filename, eibresp*

Destination: CRPO

DFHRP1533 *date time applid tranid* **The CICS ONC RPC connection manager has detected a logic error while accessing the CICS ONC RPC data set, CICS file** *filename***.**

Explanation: The connection manager used EXEC CICS WRITE to update the CICS ONC RPC data set, but received an unexpected response. This is a logic error.

System action: A system dump is taken. The requested operation is not performed. Message DFHME0116 should be produced containing the symptom string for this problem.

User response: You need further assistance from IBM to resolve this problem. See the *CICS External Interfaces Guide* and Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed. Report the details of the symptom string given in message DFHME0116. It will aid problem determination.

Module: DFHRPC09

XMEOUT Parameters: *date, time,applid, tranid, filename*

Destination: CRPO

DFHRP1534 *date time applid tranid* **The CICS ONC RPC connection manager detected an error while accessing the CICS ONC RPC data set, CICS file** *filename***. EIBRESP:** *eibresp***.**

Explanation: The connection manager could not access the CICS ONC RPC data set, CICS file *filename*. An EXEC CICS WRITE was issued, but received the response *eibresp*. The error can occur for one of the following reasons

- The file is defined as remote, and there is an error on the connection to the owning system.
- VSAM has returned an unexpected response to CICS.
- An I/O error occurred on the WRITE.
- There is insufficient space available on the DASD device containing this file.

System action: A system dump is taken. The 4-tuple definition is not saved in the data set. Message DFHME0116 should be produced containing the symptom string for this problem.

User response: Use Appendix A of the *Application Programming Reference* manual to find out what the EIBRESP value means, and take appropriate action.

Module: DFHRPC09

XMEOUT Parameters: *date, time,applid, tranid, filename, eibresp*

Destination: CRPO

DFHRP1536 *date time applid tranid* **There was no entry for this 4-tuple in the CICS ONC RPC data set, CICS file** *filename***.**

Explanation: The connection manager did not find this 4-tuple in the CICS ONC RPC data set.

System action: None.

User response: Enter a 4-tuple that has already been saved in the data set.

Module: DFHRPC09

Destination: Terminal End User

DFHRP1537 *date time applid tranid* **The CICS ONC RPC connection manager detected an internal error while registering 4-tuples from the CICS ONC RPC data set, CICS file** *filename***.**

Explanation: The connection manager detected an internal error while processing a request to register 4-tuples from the CICS ONC RPC data set.

System action: A system dump is taken. No 4-tuples are registered. Message DFHME0116 should be produced containing the symptom string for this problem.

User response: You need further assistance from IBM to resolve this problem. See the *CICS External Interfaces Guide* and Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed. Report the details of the symptom string given in message DFHME0116. It will aid problem determination.

Module: DFHRPC09

XMEOUT Parameters: *date, time,applid, tranid, filename*

Destination: CRPO

DFHRP1538 *date time applid tranid* **The CICS ONC RPC connection manager found no records on the CICS ONC RPC data set, CICS file** *filename***.**

Explanation: The connection manager was processing a request to register 4-tuples, but found no records on the CICS ONC RPC data set. The CICS ONC RPC definition record is missing.

System action: A system dump is taken. No 4-tuples are registered. Message DFHME0116 should be produced containing the symptom string for this problem.

User response: Investigate the reason why there are no records. You must use the connection manager to create a new one.

Module: DFHRPC09

XMEOUT Parameters: *date, time,applid, tranid, filename*

Destination: CRPO

DFHRP1539 *date time applid tranid* **The CICS ONC RPC connection manager detected an error while accessing the CICS ONC RPC data set, CICS file** *filename***, while registering 4-tuples from the data set. EIBRESP:** *eibresp***.**

Explanation: The connection manager could not access the CICS ONC RPC data set.

The error occurred while processing a request to register 4-tuples from the data set. Associated message DFHRP1545 may have been issued to indicate the number of 4-tuples that were registered.

An EXEC CICS STARTBR, EXEC CICS READNEXT, or EXEC CICS ENDBR was issued, but received the response *eibresp*. The error can occur for one of the following reasons

- No file definition has been found for the file, implying that CICS ONC RPC has not been installed correctly.
- BROWSE or READ operations are not allowed, implying that CICS ONC RPC has not been installed correctly.
- The file is DISABLED, either due to an incorrect file definition, or due to operator intervention.
- The file is NOTOPEN, either due to an incorrect file definition, or due to operator intervention.
- BROWSE or READ operations are not authorized, implying that security has not been set up correctly.

System action: A system dump is taken. The connection manager cannot register 4-tuples from the data set. Message DFHME0116 should be produced containing the symptom string for this problem.

User response: Use Appendix A of the *Application Programming Reference* manual to find out what the EIBRESP value means, and take appropriate action.

Module: DFHRPC09

XMEOUT Parameters: *date, time,applid, tranid, filename, eibresp*

Destination: CRPO

DFHRP1540 *date time applid tranid* **The CICS ONC RPC connection manager detected a logic error.**

Explanation: The connection manager received an unexpected response from CICS following an EXEC CICS command.

System action: A system dump is taken. The connection manager abends with abend code ARPV. The other components of CICS ONC RPC continue. Message DFHME0116 should be produced containing the symptom string for this problem.

User response: You need further assistance from IBM to resolve this problem. See the *CICS External Interfaces Guide* and Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed. Report the details of the symptom string given in message DFHME0116. It will aid problem determination.

Module: DFHRPC4C

XMEOUT Parameters: *date, time,applid, tranid*

Destination: CRPO

DFHRP1541 *date time applid tranid* **The CICS ONC RPC connection manager detected a logic error.**

Explanation: The connection manager received an unexpected response from CICS following an EXEC CICS command.

System action: A system dump is taken. The enable attempt is abandoned. Message DFHME0116 should be produced containing the symptom string for this problem.

User response: You need further assistance from IBM to resolve this problem. See the *CICS External Interfaces Guide* and Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed. Report the details of the symptom string given in message

DFHME0116. It will aid problem determination.

Module: DFHRPC4C

XMEOUT Parameters: *date, time,applid, tranid*

Destination: CRPO

DFHRP1542 *date time applid tranid* **CICS ONC RPC detected an error while accessing the CICS ONC RPC data set, CICS file** *filename***, while registering 4-tuples from the data set. EIBRESP** *eibresp***.**

Explanation: The connection manager could not access the CICS ONC RPC data set.

The error occurred while processing a request to register 4-tuples from the data set. Associated message DFHRP1545 may have been issued to indicate the number of 4-tuples that were registered.

An EXEC CICS STARTBR, EXEC CICS READNEXT or EXEC CICS ENDBR was issued, but received the response *eibresp*. The error can occur for one of the following reasons

- The file is defined as remote, and there is an error on the connection to the owning system.
- VSAM has returned an unexpected response to CICS.
- An I/O error occurred on the BROWSE or READ command.

System action: A system dump is taken. The connection manager cannot register 4-tuples from the data set. Message DFHME0116 should be produced containing the symptom string for this problem.

User response: Use Appendix A of the *Application Programming Reference* manual to find out what the EIBRESP value means, and take appropriate action. Report the details of the symptom string given in message DFHME0116. It will aid problem determination.

Module: DFHRPC09

XMEOUT Parameters: *date, time,applid, tranid, filename, eibresp*

Destination: CRPO

DFHRP1543 *date time applid tranid* **The CICS ONC RPC connection manager detected a logic error while accessing the CICS ONC RPC data set, CICS file** *filename***, while registering 4-tuples from the data set.**

Explanation: The connection manager has detected an error while accessing the CICS ONC RPC data set. This is a logic error since connection manager has received an unexpected response from CICS following an EXEC CICS STARTBR, EXEC CICS READNEXT or EXEC CICS ENDBR command.

The error occurred while processing a request to register 4-tuples from the data set. Associated message DFHRP1545 may have been issued to indicate the number of 4-tuples that were registered.

System action: A system dump is taken. The connection manager cannot register 4-tuples from the data set. Message DFHME0116 should be produced containing the symptom string for this problem.

User response: You need further assistance from IBM to resolve this problem. See the *CICS External Interfaces Guide* and Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed. Report the details of the symptom string given in message DFHME0116. It will aid problem determination.

Module: DFHRPC09

XMEOUT Parameters: *date, time,applid, tranid, filename*

Destination: CRPO

DFHRP1544 *date time applid tranid* **The CICS ONC RPC connection manager found no records in the CICS ONC RPC data set, CICS file** *filename***.**

Explanation: The connection manager was processing a request to register 4-tuples, but found no records in the CICS ONC RPC data set. This indicates that the CICS ONC RPC definition record is missing.

System action: A system dump is taken. No 4-tuples are registered. Message DFHME0116 should be produced containing the symptom string for this problem.

User response: Investigate the reason why there are no records. You must use the connection manager to create a new CICS ONC RPC definition record.

Module: DFHRPC09

XMEOUT Parameters: *date, time,applid, tranid, filename*

Destination: CRPO

DFHRP1545 *date time applid tranid* **The CICS ONC RPC connection manager has completed registration of 4-tuples from the CICS ONC RPC data set, CICS file** *filename***. Successful registers** *count1***. Unsuccessful registers:** *count2***.**

Explanation: The connection manager has finished registering 4-tuples from the CICS ONC RPC data set, CICS file *filename*. *count1* indicates the number of 4-tuples that have been successfully registered. *count2* indicates the number of 4-tuples that were not registered.

System action: No further action.

User response: No further action.

Module: DFHRPC09

XMEOUT Parameters: *date, time,applid, tranid, filename, count1, count2*

Destination: CRPO

DFHRP1546 *date time applid tranid* **The CICS ONC RPC connection manager found no 4-tuple records on the CICS ONC RPC data set, CICS file** *filename***.**

Explanation: The connection manager was processing a request to register 4-tuples from the CICS ONC RPC data, but found no 4-tuple records in it.

System action: No 4-tuples are registered.

User response: Store some 4-tuple definitions in the data set before requesting this option.

Module: DFHRPC09

XMEOUT Parameters: *date, time,applid, tranid, filename*

Destination: CRPO

DFHRP1547 *date time applid tranid* **The CICS ONC RPC connection manager detected an internal error while registering 4-tuples from the CICS ONC RPC data set, CICS file** *filename***.**

Explanation: The connection manager detected an internal error while processing a request to register 4-tuple from the CICS ONC RPC data set. Associated message DFHRP1545 indicates how many 4-tuples were registered.

System action: A system dump is taken. Message DFHME0116 should be produced containing the symptom string for this problem.

User response: You need further assistance from IBM to resolve this problem. See the *CICS External Interfaces Guide* and Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed. Report the details of the symptom string given in message DFHME0116. It will aid problem determination.

Module: DFHRPC09

XMEOUT Parameters: *date, time,applid, tranid, filename*

Destination: CRPO

DFHRP1548 *date time applid tranid* **The CICS ONC RPC connection manager detected an error attempting to retrieve any fast path data. EIBRESP:** *eibresp***.**

Explanation: The connection manager was attempting to retrieve any fast path commands that may have been specified when it was initiated from a terminal. The connection manager issued an EXEC CICS RECEIVE command, but received a response in field *eibresp*.

System action: A system dump is taken. Start up of CICS ONC RPC continues but any fast path commands are ignored. Message DFHME0116 should be produced containing the symptom string for this problem.

User response: You need further assistance from IBM to resolve this problem. See the *CICS External Interfaces Guide* and Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed. Report the details of the symptom string given in message DFHME0116. It will aid problem determination.

Module: DFHRPC01

XMEOUT Parameters: *date, time,applid, tranid, eibresp*

Destination: CRPO

DFHRP1549 *date time applid tranid* **The CICS ONC RPC connection manager received an error response while registering with CICS for problem determination.**

Explanation: The connection manager received an unexpected response from CICS when attempting to register for problem determination.

System action: A system dump is taken. CICS feature tracing and dump formatting cannot be used for CICS ONC RPC. Message DFHME0116 should be produced containing the symptom string for this problem.

User response: You need further assistance from IBM to resolve this problem. See the *CICS External Interfaces Guide* and Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed. Report the details of the symptom string given in message DFHME0116. It will aid problem determination.

Module: DFHRPC01

XMEOUT Parameters: *date, time,applid, tranid*

Destination: CRPO

DFHRP1550 *date time applid tranid* **The CICS ONC RPC connection manager received an error response while registering with CICS for problem determination.**

Explanation: The connection manager received an unexpected response from CICS when attempting to register for problem determination.

System action: A system dump is taken. The enable attempt is abandoned. Message DFHME0116 should be produced containing the symptom string for this problem.

User response: You need further assistance from IBM to resolve this problem. See the *CICS External Interfaces Guide* and Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed. Report the details of the symptom string given in message DFHME0116. It will aid problem determination.

Module: DFHRPC4C

XMEOUT Parameters: *date, time,applid, tranid*

Destination: CRPO

DFHRP1551 *date time applid tranid* **The CICS ONC RPC connection manager could not enable CICS ONC RPC because of a CICS short on storage condition.**

Explanation: The connection manager has made a request for storage during enable processing, but has received a reply indicating that CICS is short on storage.

System action: A system dump is taken. The enable attempt is abandoned. Message DFHME0116 should be produced containing the symptom string for this problem.

User response: See the associated diagnostics issued by CICS for problem determination. You need further assistance from IBM to resolve this problem. See the *CICS External Interfaces Guide* and Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed. Report the details of the symptom string given in message DFHME0116. It will aid problem determination.

Module: DFHRPC4C

XMEOUT Parameters: *date, time,applid, tranid*

Destination: CRPO

DFHRP1552 *date time applid tranid* **The CICS ONC RPC connection manager has detected an internal error during enable processing.**

Explanation: An internal error detected during enable processing has prevented the connection manager from enabling CICS ONC RPC.

System action: A system dump is taken. The enable attempt is abandoned. Message DFHME0116 should be produced containing the symptom string for this problem.

User response: You need further assistance from IBM to resolve this problem. See the *CICS External Interfaces Guide* and Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed. Report the details of the symptom string given in message DFHME0116. It will aid problem determination.

Module: DFHRPC4C

XMEOUT Parameters: *date, time,applid, tranid*

Destination: CRPO

DFHRP1554 *date time applid tranid* **The CICS ONC RPC connection manager is not authorized to use the CICS SPI.**

Explanation: The connection manager has not been defined with the authorization necessary to execute CICS system programming interface commands. It cannot function without this authorization.

System action: A system dump is taken. The enable attempt is abandoned.

User response: Message DFHME0116 should be produced containing the symptom string for this problem. Redefine the connection manager transaction and its associated program DFHRPC00 with the appropriate level of security to be able to use the CICS SPI.

Module: DFHRPC4C

XMEOUT Parameters: *date, time,applid, tranid*

Destination: CRPO

DFHRP1555 *date time applid tranid* **The CICS ONC RPC connection manager is not authorized to use the program DFHRPTRU.**

Explanation: The connection manager used the EXEC CICS ENABLE PROGRAM command for DFHRPTRU, but it has not been defined with the authorization necessary to use DFHRPTRU. It cannot function without this authorization.

System action: A system dump is taken. The enable attempt is abandoned. Message DFHME0116 should be produced containing the symptom string for this problem.

User response: Redefine the connection manager and its associated programs with the appropriate level of security to be able to use the CICS ONC RPC supplied task-related user exit DFHRPTRU.

Module: DFHRPC4C

XMEOUT Parameters: *date, time,applid, tranid*

Destination: CRPO

DFHRP1556 *date time applid tranid* **The CICS ONC RPC connection manager has detected an internal error during enable processing.**

Explanation: An internal error detected by the connection manager during enable processing has prevented CICS ONC RPC from being enabled.

System action: A system dump is taken. The enable attempt is abandoned. Message DFHME0116 should be produced containing the symptom string for this problem.

User response: You need further assistance from IBM to resolve this problem. See the *CICS External Interfaces Guide* and Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed. Report the details of the symptom string given in message DFHME0116. It will aid problem determination.

Module: DFHRPC4C

XMEOUT Parameters: *date, time,applid, tranid*

Destination: CRPO

DFHRP1557 *date time applid tranid* **The CICS ONC RPC connection manager has detected an internal error during enable processing.**

Explanation: An internal error detected by the connection manager during enable processing has prevented CICS ONC RPC from being enabled.

System action: A system dump is taken. The enable attempt is abandoned. Message DFHME0116 should be produced containing the symptom string for this problem.

User response: You need further assistance from IBM to resolve this problem. See the *CICS External Interfaces Guide* and Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed. Report the details of the symptom string given in message DFHME0116. It will aid problem determination.

Module: DFHRPC4C

XMEOUT Parameters: *date, time,applid, tranid*

Destination: CRPO

DFHRP1558 *date time applid tranid* **The CICS ONC RPC connection manager could not find the task-related user exit, program DFHRPTRU.**

Explanation: The connection manager cannot find the task-related user exit, DFHRPTRU, for one of the following reasons

- DFHRPTRU has not been defined to CICS
- DFHRPTRU is not in the CICS load library
- DFHRPTRU has been disabled

System action: A system dump is taken. The enable attempt is abandoned. Message DFHME0116 should be produced containing the symptom string for this problem.

User response: Ensure that all the CEDA groups for CICS ONC RPC have been installed correctly, then try the enable request again.

Module: DFHRPC4C

XMEOUT Parameters: *date, time,applid, tranid*

Destination: CRPO

DFHRP1559 *date time applid tranid* **The CICS ONC RPC connection manager could not enable CICS ONC RPC because of a CICS short on storage condition.**

Explanation: The connection manager has made a request for storage during enable processing, but has received a reply indicating that CICS is short on storage.

System action: A system dump is taken. The enable attempt is abandoned. Message DFHME0116 should be produced containing the symptom string for this problem.

User response: See the associated diagnostics issued by CICS for problem determination. See the dfhtm00l. for guidance on dealing with CICS storage problems.

Module: DFHRPC4C

XMEOUT Parameters: *date, time,applid, tranid*

Destination: CRPO

DFHRP1560 *date time applid tranid* **The CICS ONC RPC connection manager has detected an internal error during enable processing.**

Explanation: An internal error detected by the connection manager during enable processing has prevented CICS ONC RPC from being enabled.

System action: A system dump is taken. The enable attempt is abandoned. Message DFHME0116 should be produced containing the symptom string for this problem.

User response: You need further assistance from IBM to resolve this problem. See the *CICS External Interfaces Guide* and Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed. Report the details of the symptom string given in message DFHME0116. It will aid problem determination.

Module: DFHRPC4C

XMEOUT Parameters: *date, time,applid, tranid*

Destination: CRPO

DFHRP1561 *date time applid tranid* **The CICS ONC RPC connection manager found that the task-related user exit, program DFHRPTRU, is already enabled.**

Explanation: The connection manager found that the task-related user exit, DFHRPTRU, is already enabled.

System action: A system dump is taken. The enable attempt is abandoned. Message DFHME0116 should be produced containing the symptom string for this problem.

User response: Take steps to prevent operator

intervention with the task related user exit, then try the enable request again.

Module: DFHRPC4C

XMEOUT Parameters: *date, time,applid, tranid*

Destination: CRPO

DFHRP1564 *date time applid tranid* **CICS ONC RPC could not be enabled due to an internal error while starting the server controller. Host IP address:** *hostaddr***.**

Explanation: The connection manager attempted to start the server controller by issuing an EXEC CICS START command, but could not determine the response that was returned.

System action: A system dump is taken. The enable attempt is abandoned. Message DFHME0116 should be produced containing the symptom string for this problem.

User response: You need further assistance from IBM to resolve this problem. See the *CICS External Interfaces Guide* and Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed. Report the details of the symptom string given in message DFHME0116. It will aid problem determination.

Module: DFHRPC4C

XMEOUT Parameters: *date, time,applid, tranid, hostaddr*

Destination: CRPO

DFHRP1565 *date time applid tranid* **CICS ONC RPC cannot be enabled because the connection manager is not authorized to start the server controller. EIBRESP:** *eibresp***. Host IP address** *hostaddr***.**

Explanation: The connection manager attempted to start the server controller by issuing an EXEC CICS START command, but the NOTAUTH response was returned.

System action: A system dump is taken. The enable attempt is abandoned. Message DFHME0116 should be produced containing the symptom string for this problem.

User response: See the *CICS System Programming Reference* for the meaning of the value returned in *eibresp*. Use CEDA to ensure that the resource definitions for the CICS ONC RPC supplied programs and transactions have been defined with the correct levels of security. The connection manager must have the correct level of authority to start the server controller in order for CICS ONC RPC to be enabled successfully.

Module: DFHRPC4C

XMEOUT Parameters: *date, time,applid, tranid, eibresp, hostaddr*

Destination: CRPO

DFHRP1566 *date time applid tranid* **CICS ONC RPC cannot be enabled due to an error starting the server controller. EIBRESP** *eibresp***. Host IP address:** *hostaddr***.**

Explanation: The connection manager attempted to start the server controller by issuing an EXEC CICS START command, but the TRANSIDERR response was returned.

See the *CICS System Programming Reference* for the meaning of the value returned in *eibresp*.

System action: A system dump is taken. The enable attempt is abandoned. Message DFHME0116 should be produced containing the symptom string for this problem.

User response: Use CEDA to ensure that the resource definitions for the CICS ONC RPC supplied programs and transactions have been defined with the correct levels of security. In order to enable CICS ONC RPC, the connection manager must have the correct level of authority to start the server controller.

Module: DFHRPC4C

XMEOUT Parameters: *date, time,applid, tranid, eibresp, hostaddr*

Destination: CRPO

DFHRP1567 *date time applid tranid* **CICS ONC RPC could not be enabled due to a security error starting the server controller. User ID** *userid* **is unknown. Host IP address:** *hostaddr***.**

Explanation: The connection manager attempted to start the server controller by issuing an EXEC CICS START USERID command, but the USERIDERR response was returned.

The user ID specified for the server controller is not known to the external security manager.

System action: The enable attempt is abandoned.

User response: Ensure that a valid user ID is specified for CRPM Userid.

Module: DFHRPC4C

XMEOUT Parameters: *date, time,applid, tranid, userid, hostaddr*

Destination: CRPO

DFHRP1568 *date time applid tranid* **CICS ONC RPC could not be enabled due to a security error starting the server controller. Host IP address:** *hostaddr***.**

Explanation: The connection manager attempted to start the server controller by issuing an EXEC CICS START USERID command, but the USERIDERR response was returned.

The external security manager is in a state such that it cannot validate the user ID specified for the server controller.

System action: A system dump is taken. The enable attempt is abandoned. Message DFHME0116 should be produced containing the symptom string for this problem.

User response: Investigate the reason why the external security manager cannot perform this request.

Module: DFHRPC4C

XMEOUT Parameters: *date, time,applid, tranid, hostaddr*

Destination: CRPO

DFHRP1569 *date time applid tranid* **The CICS ONC RPC connection manager has detected an internal error during enable processing.**

Explanation: An internal error detected by the connection manager during enable processing has prevented CICS ONC RPC from being enabled.

System action: A system dump is taken. The enable attempt is abandoned. Message DFHME0116 should be produced containing the symptom string for this problem.

User response: You need further assistance from IBM to resolve this problem. See the *CICS External Interfaces Guide* and Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHRPC4C

XMEOUT Parameters: *date, time,applid, tranid*

Destination: CRPO

DFHRP1570 *date time applid tranid* **CICS ONC RPC storage subpool token not saved.**

Explanation: The connection manager has detected an error while saving the storage subpool token.

System action: A system dump is taken. CICS ONC RPC continues normally. However if CICS ONC RPC abends, it may not be possible to reenable CICS ONC RPC without restarting CICS. Message DFHME0116 should be produced containing the symptom string for this problem.

User response: See the associated diagnostics issued by CICS for problem determination.

Module: DFHRPC4C

XMEOUT Parameters: *date, time,applid, tranid*

Destination: CRPO

DFHRP1571 *date time applid tranid* **The CICS ONC RPC connection manager is not authorized to load module** *module***.**

Explanation: The connection manager has not been defined with the authorization necessary to issue an EXEC CICS LOAD command for the named module.

System action: The enable attempt is abandoned.

User response: Redefine the connection manager and its associated programs with the appropriate level of security to be able to issue EXEC CICS LOAD commands for the named CICS ONC RPC program.

Module: DFHRPC4C

XMEOUT Parameters: *date, time,applid, tranid, module*

Destination: CRPO

DFHRP1572 *date time applid tranid* **The CICS ONC RPC connection manager detected an error while loading** *module***.**

Explanation: The connection manager tried to load the module, but the response to EXEC CICS LOAD was PGMIDERR.

System action: The enable attempt is abandoned.

User response: Use the CEDA transaction to ensure that the connection manager (program DFHRPC00) and the named program are correctly defined. See the External Interfaces Guide for the correct program definitions.

Module: DFHRPC4C

XMEOUT Parameters: *date, time, applid, tranid, module*

Destination: CRPO

DFHRP1574 *date time applid tranid* **The CICS ONC RPC connection manager load for** *module* **returned an unexpected response.**

Explanation: The connection manager has not been able to load the module into storage. A response other than NOTAUTH or PGMIDERR was returned to the EXEC CICS LOAD command.

System action: A system dump is taken. The enable attempt is abandoned. Message DFHME0116 should be produced containing the symptom string for this problem.

User response: Use the system dump to determine why the LOAD could not work.

Module: DFHRPC4C

XMEOUT Parameters: *date, time,applid, tranid, module*

Destination: CRPO

DFHRP1575 *date time applid tranid* **CICS ONC RPC could not be enabled due to an internal error starting the server controller. Host IP address:** *hostaddr***.**

Explanation: The connection manager attempted to start the server controller by issuing an EXEC CICS START command, but received an unexpected response.

System action: A system dump is taken. The enable attempt is abandoned. Message DFHME0116 should be produced containing the symptom string for this problem.

User response: You need further assistance from IBM to resolve this problem. See the *CICS External Interfaces Guide* and Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed. Report the details of the symptom string given in message DFHME0116. It will aid problem determination.

Module: DFHRPC4C

XMEOUT Parameters: *date, time,applid, tranid, hostaddr*

Destination: CRPO

DFHRP1576 *date time applid tranid* **CICS ONC RPC could not be enabled due to an internal error starting the server controller. EIBRESP:** *eibresp***. Host IP address:** *hostaddr***.**

Explanation: The connection manager attempted to start the server controller by issuing an EXEC CICS START command, but the INVREQ response was returned.

System action: A system dump is taken. The enable attempt is abandoned. Message DFHME0116 should be produced containing the symptom string for this problem.

User response: You need further assistance from IBM to resolve this problem. See the *CICS External Interfaces Guide* and Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed. Report the details of the symptom string given in message DFHME0116. It will aid problem determination.

Module: DFHRPC4C

XMEOUT Parameters: *date, time,applid, tranid, eibresp, hostaddr*

Destination: CRPO

DFHRP1577 *date time applid tranid* **The CICS ONC RPC connection manager cannot access its task-related user exit DFHRPTRU.**

Explanation: The connection manager was unable to access its task-related user exit DFHRPTRU during enable processing.

System action: A system dump is taken. The enable attempt is abandoned. Message DFHME0116 should be produced containing the symptom string for this problem.

User response: Check that the task-related user exit has not been disabled by operator intervention. See the associated diagnostics issued by CICS for problem determination.

Module: DFHRPC4C

XMEOUT Parameters: *date, time,applid, tranid*

Destination: CRPO

DFHRP1579 *date time applid tranid* **The CICS ONC RPC connection manager detected an internal error while registering 4-tuples from the CICS ONC RPC data set, CICS file** *filename***.**

Explanation: The connection manager has detected an internal error while processing a request to register 4-tuples from the CICS ONC RPC data set. Associated message DFHRP1545 may have been issued to indicate the number of 4-tuples that were successfully registered.

System action: A system dump is taken. Registration of 4-tuples from the data set does not continue. Message DFHME0116 should be produced containing the symptom string for this problem.

User response: You need further assistance from IBM to resolve this problem. See the *CICS External Interfaces Guide* and Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed. Report the details of the symptom string given in message DFHME0116. It will aid problem determination.

Module: DFHRPC09

XMEOUT Parameters: *date, time,applid, tranid, filename*

Destination: CRPO

DFHRP1580 *date time applid tranid* **The CICS ONC RPC connection manager cannot establish whether security is active or obtain the default CICS user ID. EIBRESP:** *eibresp***.**

Explanation: The connection manager was unable to retrieve status information about CICS, and therefore cannot establish whether security is active, or obtain the default CICS user ID.

An EXEC CICS INQUIRE SYSTEM was issued but received the response shown in the message.

System action: Processing continues under the assumption that there is no security active.

Panel DFHRP02 is displayed with no user ID in field CRPM Userid, unless a user ID was saved in the CICS ONC RPC data set.

User response: Ensure that the connection manager has the correct level of security to use CICS system programming interface commands.

Module: DFHRPC42

XMEOUT Parameters: *date, time,applid, tranid, eibresp*

Destination: CRPO

DFHRP1581 *date time applid tranid* **The CICS ONC RPC connection manager detected an internal error while accessing the CICS ONC RPC data set, CICS file** *filename***.**

Explanation: The connection manager has detected an internal error while accessing the CICS ONC RPC data set.

System action: A system dump is taken. The panel is redisplayed. No records can be updated. Message DFHME0116 should be produced containing the symptom string for this problem.

User response: You need further assistance from IBM to resolve this problem. See the *CICS External Interfaces Guide* and Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed. Report the details of the symptom string given in message DFHME0116. It will aid problem determination.

Module: DFHRPC03, DFHRPC05

XMEOUT Parameters: *date, time,applid, tranid, filename*

Destination: CRPO

DFHRP1582 *date time applid tranid* **The CICS ONC RPC connection manager detected an internal error while accessing the CICS ONC RPC data set, CICS file** *filename***.**

Explanation: The connection manager has detected an internal error while accessing the CICS ONC RPC data set.

System action: A system dump is taken. The connection manager panel is redisplayed. Message DFHME0116 should be produced containing the symptom string for this problem.

User response: You need further assistance from IBM to resolve this problem. See the *CICS External Interfaces Guide* and Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed. Report the details of the symptom string given in message DFHME0116. It will aid problem determination.

Module: DFHRPC03, DFHRPC05

XMEOUT Parameters: *date, time,applid, tranid, filename*

Destination: CRPO

DFHRP1583 *date time applid tranid* **The CICS ONC RPC connection manager found no entry for this 4-tuple in the CICS ONC RPC data set, CICS file** *filename***.**

Explanation: The connection manager has not found this 4-tuple in the CICS ONC RPC data set *filename*.

System action: None.

User response: Enter a 4-tuple that has already been saved in the data set.

Module: DFHRPC09

Destination: Terminal End User

DFHRP1584 *date time applid tranid* **The CICS ONC RPC connection manager detected an error while accessing the CICS ONC RPC data set, CICS file** *filename***. EIBRESP:** *eibresp***.**

Explanation: The connection manager could not access the CICS ONC RPC data set. An EXEC CICS DELETE was issued, but received the response *eibresp*. The data set has not been correctly defined to CICS for one of the following reasons

- No file definition has been found for *filename*. CICS ONC RPC has therefore not been installed correctly.
- DELETE operations are not allowed on the file.
- The file has been disabled, either due to an incorrect file definition, or due to operator intervention.
- The file cannot be opened because it has not been defined correctly, or because it has been closed by operator intervention.
- The connection manager, or the user running it, does not have the necessary level of authority to access the file.

System action: The requested operation is not performed. The connection manager cannot perform any operation requiring access to the data set.

User response: Use Appendix A of the *Application Programming Reference* manual to find out what the EIBRESP value means, and take appropriate action.

Investigate whether the operator has changed the status of the data set for any reason.

Module: DFHRPC09

XMEOUT Parameters: *date, time,applid, tranid, filename, eibresp*

Destination: CRPO

DFHRP1585 *date time applid tranid* **The CICS ONC RPC connection manager detected an error while accessing the CICS ONC RPC data set, CICS file** *filename***. EIBRESP:** *eibresp***.**

Explanation: The connection manager could not access CICS ONC RPC data set, CICS file *filename*. An EXEC CICS DELETE was issued, but received the response *eibresp*. The error can occur for one of the following reasons

- The file is defined as remote, and there is an error on the connection to the owning system.
- VSAM has returned an unexpected response to CICS.
- An I/O error occurred on the DELETE.

System action: A system dump is taken. The requested operation is not performed. The connection manager cannot perform any function requiring access to the data set. Message DFHME0116 should be produced containing the symptom string for this problem.

User response: Use Appendix A of the *Application Programming Reference* manual to find out what the EIBRESP value means, and take appropriate action.

Module: DFHRPC09

XMEOUT Parameters: *date, time,applid, tranid, filename, eibresp*

Destination: CRPO

DFHRP1586 *date time applid tranid* **The CICS ONC RPC connection manager detected a logic error accessing the CICS ONC RPC data set** *filename***.**

Explanation: The connection manager detected an unexpected error when accessing the CICS ONC RPC data set. This is a logic error. The connection manager has received an unexpected response from CICS following an EXEC CICS command.

System action: A system dump is taken. The connection manager cannot perform any function requiring access to the CICS ONC RPC data set. Message DFHME0116 should be produced containing the symptom string for this problem.

User response: You need further assistance from IBM to resolve this problem. See the *CICS External Interfaces Guide* and Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed. Report the details of the symptom string given in message DFHME0116. It will aid problem determination.

Module: DFHRPC09

XMEOUT Parameters: *date, time,applid, tranid, filename*

Destination: CRPO

DFHRP1596 *date time applid tranid* **The CICS ONC RPC connection manager cannot continue enable processing because it cannot determine the status of CICS ONC RPC.**

Explanation: The connection manager was trying to enable CICS ONC RPC, but detected an invalid global work area address, or found that CICS ONC RPC was enabled.

System action: The enable attempt is abandoned.

User response: Investigate whether CICS ONC RPC has been disabled. Investigate whether operator command have been issued against the task-related user DFHRPTRU.

Module: DFHRPC4C

XMEOUT Parameters: *date, time,applid, tranid*

Destination: CRPO

DFHRP1600 *date time applid tranid* **The CICS ONC RPC connection manager has completed backout of enable processing.**

Explanation: CICS ONC RPC cannot be enabled. This may be the result of an error detected by the connection manager during enable processing or it may be due to CICS shutdown. The connection manager has completed backout of enable processing.

System action: Processing continues.

User response: See associated messages for the reason why the enable request failed.

Module: DFHRPC4C

XMEOUT Parameters: *date, time,applid, tranid*

Destination: CRPO

DFHRP1601 *date time applid tranid* **The CICS ONC RPC connection manager cannot continue enable processing because it has detected that CICS is shutting down.**

Explanation: CICS ONC RPC cannot be enabled when CICS is in shutdown.

System action: The connection manager initiates backout of enable processing. If this is an immediate CICS shutdown, then transaction CRPC terminates.

User response: Exit transaction CRPC to enable CICS shutdown to continue.

Module: DFHRPC4C

XMEOUT Parameters: *date, time,applid, tranid*

Destination: CRPO

DFHRP1602 *date time applid tranid* **The CICS ONC RPC connection manager has detected an internal error during backout of enable processing.**

Explanation: The connection manager has detected an error attempting to shut down the RPC caller. This is during backout of enable processing initiated by the connection manager in response to a failed enable request. This could either be as a result of problems with CICS ONC RPC, which will probably be reflected in other CICS ONC RPC diagnostics, or as a result of problems with CICS which will probably be reflected in CICS diagnostics.

System action: CICS ONC RPC continues backout of enable processing.

User response: See associated messages for the reason why the enable request failed. If message DFHRP0002 was issued to the console, the explanation of that message might contain more information. If the problem is not a symptom of a wider problem, you need further assistance from IBM to resolve this problem. See the *CICS External Interfaces Guide* and Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHRPC4C

XMEOUT Parameters: *date, time,applid, tranid*

Destination: CRPO

DFHRP1603 *date time applid tranid* **The CICS ONC RPC connection manager has detected an error when attempting to issue a FREEMAIN for the RPC caller program.**

Explanation: The connection manager has detected an error issuing a FREEMAIN for the RPC caller program to remove it from storage. This is during backout of enable processing initiated by the connection manager in response to a failed enable request. This could either be as a result of problems with CICS ONC RPC, which will probably be reflected in other CICS ONC RPC diagnostics, or as a result of problems with CICS which will probably be reflected in CICS diagnostics.

System action: CICS ONC RPC continues backout of enable processing.

User response: See associated messages for the reason why the enable request failed. If the problem is not a symptom of a wider problem, you need further assistance from IBM to resolve this problem. See the *CICS External Interfaces Guide* and Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHRPC4C

XMEOUT Parameters: *date, time,applid, tranid*

Destination: CRPO

DFHRP1604 *date time applid tranid* **The CICS ONC RPC connection manager has detected an error when attempting to issue a RELEASE for the alias list program.**

Explanation: The connection manager has detected an error issuing a release for the alias list program. This is during backout of enable processing initiated by the connection manager in response to a failed enable request. This could either be as a result of problems with CICS ONC RPC, which will probably be reflected in other CICS ONC RPC diagnostics, or as a result of problems with CICS which will probably be reflected in CICS diagnostics.

System action: CICS ONC RPC continues backout of enable processing.

User response: See associated messages for the reason why the enable request failed. If the problem is not a symptom of a wider problem, you need further assistance from IBM to resolve this problem. See the *CICS External Interfaces Guide* and Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHRPC4C

XMEOUT Parameters: *date, time,applid, tranid*

Destination: CRPO

DFHRP1605 *date time applid tranid* **The CICS ONC RPC connection manager has detected an internal error during backout of enable processing.**

Explanation: The connection manager has detected an internal error during backout of enable processing initiated by the connection manager in response to a failed enable request. This could either be as a result of problems with CICS ONC RPC, which will probably be reflected in other CICS ONC RPC diagnostics, or as a result of problems with CICS which will probably be reflected in CICS diagnostics.

System action: CICS ONC RPC continues backout of enable processing.

User response: See associated messages for the reason why the enable request failed. If the problem is not a symptom of a wider problem, you need further assistance from IBM to resolve this problem. See the *CICS External Interfaces Guide* and Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHRPC4C

XMEOUT Parameters: *date, time,applid, tranid*

Destination: CRPO

DFHRP1606 *date time applid tranid* **The CICS ONC RPC connection manager has detected an internal error during backout of enable processing.**

Explanation: The connection manager has detected an internal error during backout of enable processing initiated by the connection manager in response to a failed enable request. This could either be as a result of problems with CICS ONC RPC, which will probably be reflected in other CICS ONC RPC diagnostics, or as a result of problems with CICS which will probably be reflected in CICS be diagnostics.

System action: CICS ONC RPC continues backout of enable processing.

User response: See associated messages for the reason why the enable request failed. If the problem is not a symptom of a wider problem, you need further assistance from IBM to resolve this problem. See the *CICS External Interfaces Guide* and Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHRPC4C

XMEOUT Parameters: *date, time,applid, tranid*

Destination: CRPO

DFHRP1607 *date time applid tranid* **The CICS ONC RPC connection manager has detected an error when attempting to disable the ONC RPC TRUE (DFHRPTRU).**

Explanation: The connection manager detected an error attempting to disable the task-related user exit (TRUE). This is during backout of enable processing initiated by the connection manager in response to a failed enable request. It may be that the TRUE is already disabled, which may be the result of operator intervention. Alternatively, this could either be as a result of problems with CICS ONC RPC, which will probably be reflected in other CICS ONC RPC diagnostics, or as a result of problems with CICS which will probably be reflected in CICS diagnostics.

System action: CICS ONC RPC continues backout of enable processing.

User response: See associated messages for the reason why the enable request failed. Take steps to prevent operator interference with the TRUE.

Module: DFHRPC4C

XMEOUT Parameters: *date, time,applid, tranid*

Destination: CRPO

DFHRP1608 *date time applid tranid* **The CICS ONC RPC connection manager has detected an internal error during backout of enable processing.**

Explanation: The connection manager has detected an internal error attempting to disable the task-related user exit (TRUE). This is during backout of enable processing initiated by the connection manager in response to a failed enable request. This could either be as a result of problems with CICS ONC RPC, which will probably be reflected in other CICS ONC RPC diagnostics, or as a result of problems with CICS which will probably be reflected in CICS diagnostics.

System action: CICS ONC RPC continues backout of enable processing.

User response: See associated messages for the reason why the enable request failed. If the problem is not a symptom of a wider problem, you need further assistance from IBM to resolve this problem. See the *CICS External Interfaces Guide* and Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHRPC4C

XMEOUT Parameters: *date, time,applid, tranid*

Destination: CRPO

DFHRP1609 *date time applid tranid* **The CICS ONC RPC connection manager is not authorized to disable the task-related user exit (DFHRPTRU) during backout of enable processing.**

Explanation: The connection manager transaction does not have the necessary authority to use the CICS system programming interface and cannot disable its task related user exit (TRUE). This is during backout of enable processing initiated by the connection manager in response to a failed enable request. This could either be as a result of problems with CICS ONC RPC, which will probably be reflected in other CICS ONC RPC diagnostics, or as a result of problems with CICS which will probably be reflected in CICS diagnostics.

System action: CICS ONC RPC continues backout of enable processing.

User response: See associated messages for the reason why the enable request failed. If the problem is not a symptom of a wider problem, you need further assistance from IBM to resolve this problem. See the *CICS External Interfaces Guide* and Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHRPC4C

XMEOUT Parameters: *date, time,applid, tranid*

Destination: CRPO

DFHRP1610 *date time applid tranid* **The CICS ONC RPC connection manager is not authorized to disable the task-related user exit (DFHRPTRU) during backout of enable processing.**

Explanation: The connection manager transaction does not have the necessary authority to disable its task-related user exit (TRUE). This is during backout of enable processing initiated by the connection manager in response to a failed enable request. This could either be as a result of problems with CICS ONC RPC, which will probably be reflected in other CICS ONC RPC diagnostics, or as a result of problems with CICS which will probably be reflected in CICS diagnostics.

System action: CICS ONC RPC continues backout of enable processing.

User response: See associated messages for the reason why the enable request failed. If the problem is not a symptom of a wider problem, you need further assistance from IBM to resolve this problem. See the *CICS External Interfaces Guide* and Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHRPC4C

XMEOUT Parameters: *date, time,applid, tranid*

Destination: CRPO

DFHRP1611 *date time applid tranid* **The CICS ONC RPC connection manager has detected an internal error during backout of enable processing.**

Explanation: The connection manager has detected an error attempting to unregister for problem determination. This is during backout of enable processing initiated by the connection manager in response to a failed enable request. This could either be as a result of problems with CICS ONC RPC, which will probably be reflected in other CICS ONC RPC diagnostics, or as a result of problems with CICS which will probably be reflected in CICS diagnostics.

System action: CICS ONC RPC continues backout of enable processing.

User response: See associated messages for the reason why the enable request failed. If the problem is not a symptom of a wider problem, you need further assistance from IBM to resolve this problem. See the *CICS External Interfaces Guide* and Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHRPC4C

XMEOUT Parameters: *date, time,applid, tranid*

Destination: CRPO

DFHRP1650 *date time applid tranid* **The CICS ONC RPC connection manager found that CICS ONC RPC is disabled. Requests to disable CICS ONC RPC are ignored.**

Explanation: A request has been made to disable CICS ONC RPC, but the current status indicates it is already disabled, or in the process of being disabled.

System action: The request is ignored. The connection manager panel is redisplayed.

User response: Request another option.

Module: DFHRPC01, DFHRPC04

Destination: Terminal End User

DFHRP1651 *date time applid tranid* **The CICS ONC RPC connection manager detected a logic error.**

Explanation: The connection manager has received an unexpected response from CICS following an EXEC CICS command.

System action: A system dump is taken. The connection manager abends with abend code ARPV. The rest of CICS ONC RPC continues. Message DFHME0116 should be produced containing the symptom string for this problem.

User response: You need further assistance from IBM to resolve this problem. See the *CICS External Interfaces Guide* and Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed. Report the details of the symptom string given in message DFHME0116. It will aid problem determination.

Module: DFHRPC04

XMEOUT Parameters: *date, time,applid, tranid*

Destination: CRPO

DFHRP1652 *date time applid tranid* **The CICS ONC RPC connection manager detected a logic error.**

Explanation: The connection manager received an unexpected response from CICS following an EXEC CICS command.

System action: A system dump is taken. The requested operation is not performed. The connection manager continues. Message DFHME0116 should be produced containing the symptom string for this problem.

User response: You need further assistance from IBM to resolve this problem. See the *CICS External Interfaces Guide* and Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed. Report the details of the symptom string given in message DFHME0116. It will aid problem determination.

Module: DFHRPC04

XMEOUT Parameters: *date, time,applid, tranid*

Destination: CRPO

DFHRP1750 *date time applid tranid* **The CICS ONC RPC connection manager has unregistered the 4-tuple. Program:** *X'prognum'* **Version:** *X'versnum'* **Procedure:** *X'procnum'* **Protocol:** *protocol***. Host IP address** *hostaddr***.**

Explanation: The 4-tuple has been unregistered.

System action: Processing continues.

User response: None.

Module: DFHRPC06

XMEOUT Parameters: *date, time,applid, tranid, X'prognum', X'versnum', X'procnum', protocol, hostaddr*

Destination: CRPO

DFHRP1751 *date time applid tranid* **The CICS ONC RPC connection manager detected an error while accessing an internal table. Host IP address:** *hostaddr*

Explanation: The connection manager detected an error whilst accessing the list of 4-tuples registered with CICS ONC RPC.

System action: The connection manager panel is redisplayed. The requested action is not performed

User response: You need further assistance from IBM to resolve this problem. See the *CICS External Interfaces Guide* and Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHRPC06

XMEOUT Parameters: *date, time,applid, tranid, hostaddr*

Destination: CRPO

DFHRP1752 *date time applid tranid* **The CICS ONC RPC connection manager detected an error while accessing an internal table. Host IP address:** *hostaddr*

Explanation: The connection manager has detected an internal error while accessing the list of 4-tuples registered with CICS ONC RPC.

System action: The connection manager panel is redisplayed.

User response: You need further assistance from IBM to resolve this problem. See the *CICS External Interfaces Guide* and Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHRPC06

XMEOUT Parameters: *date, time,applid, tranid, hostaddr*

Destination: CRPO

DFHRP1753 *date time applid tranid* **A CICS ONC RPC operation could not be performed because CICS is short on storage. Host IP address:** *hostaddr***.**

Explanation: The connection manager could not to perform an unregister operation because CICS is short on storage.

System action: The connection manager continues.

User response: Retry the unregister operation when the CICS storage problem has been resolved.

Module: DFHRPC06

XMEOUT Parameters: *date, time,applid, tranid, hostaddr*

Destination: CRPO

DFHRP1754 *date time applid tranid* **The CICS ONC RPC connection manager detected an internal error when unregistering a 4-tuple. Host IP address:** *hostaddr***.**

Explanation: The connection manager detected an internal error when unregistering a 4-tuple.

System action: A system dump is taken. The connection manager continues. Message DFHME0116 should be produced containing the symptom string for this problem.

User response: You need further assistance from IBM to resolve this problem. See the *CICS External Interfaces Guide* and Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed. Report the details of the symptom string given in message DFHME0116. It will aid problem determination.

Module: DFHRPC06

XMEOUT Parameters: *date, time,applid, tranid, hostaddr*

Destination: CRPO

DFHRP1755 *date time applid tranid* **The CICS ONC RPC connection manager could not perform an unregister operation because CICS ONC RPC is not enabled.** *X'prognum'* **Version:** *X'versnum'* **Procedure:** *X'procnum'* **Protocol:** *protocol***.**

Explanation: The connection manager cannot complete the current unregister operation because CICS ONC RPC it is not enabled. It might have been disabled by another connection manager transaction.

System action: The connection manager continues, but the unregister operation is not completed.

User response: None.

Module: DFHRPC06

XMEOUT Parameters: *date, time,applid, tranid, X'prognum', X'versnum', X'procnum', protocol*

Destination: CRPO

DFHRP1756 *date time applid tranid* **CICS ONC RPC is being disabled. Requested operation not performed. Program:** *X'prognum'* **Version:** *X'versnum'* **Procedure:** *X'procnum'* **Protocol:** *protocol***. Host IP address** *hostaddr***.**

Explanation: The connection manager is unable to complete the current unregister operation because CICS ONC RPC is in disable processing.

System action: The connection manager continues, but the unregister operation currently being performed is not completed.

User response: None. The unregister will be performed as part of disable processing

Module: DFHRPC06

XMEOUT Parameters: *date, time,applid, tranid, X'prognum', X'versnum', X'procnum', protocol, hostaddr*

Destination: CRPO

DFHRP1757 *date time applid tranid* **The CICS ONC RPC connection manager cannot unregister the requested 4-tuple because it is not registered. Program:** *X'prognum'* **Version:** *X'versnum'* **Procedure:** *X'procnum'* **Protocol:** *protocol***. Host IP address:** *hostaddr***.**

Explanation: The connection manager is unable to complete the current unregister operation because the requested 4-tuple is not registered.

System action: The connection manager continues, but the unregister operation currently being performed is not completed.

User response: If message DFHRP0002 was issued to the console, the explanation of that message might contain more information.

Module: DFHRPC06

XMEOUT Parameters: *date, time,applid, tranid, X'prognum', X'versnum', X'procnum', protocol, hostaddr*

Destination: CRPO

DFHRP1758 *date time applid tranid* **The CICS ONC RPC connection manager detected an error when freeing storage associated with the requested 4-tuple. Program:** *X'prognum'* **Version** *X'versnum'* **Procedure:** *X'procnum'* **Protocol:** *protocol***. Host IP address:** *hostaddr***.**

Explanation: The connection manager is unable to complete the current unregister operation because an error occurred freeing storage associated with the 4-tuple.

System action: The connection manager continues. If the requested 4-tuple was the only instance of a particular program/version/protocol 3-tuple registered with z/OS Communications Server, then this 3-tuple has been unregistered with z/OS Communications Server.

User response: See the associated diagnostics issued by CICS and z/OS Communications Server for problem determination.

Module: DFHRPC06

XMEOUT Parameters: *date, time, applid, tranid, X'prognum', X'versnum', X'procnum', protocol, hostaddr*

Destination: CRPO

DFHRP1759 *date time applid tranid* **The CICS ONC RPC connection manager could not perform an unregister operation because an invalid global work area was detected. Program:** *X'prognum'* **Version:** *X'versnum'* **Procedure:** *X'procnum'* **Protocol:** *protocol***.**

Explanation: The connection manager cannot complete the unregister operation because it has detected an invalid global work area address. CICS ONC RPC might have been disabled by another connection manager transaction.

System action: The connection manager continues, but the unregister operation is not completed.

User response: If message DFHRP0002 was issued to the console, the explanation of that message might contain more information.

Module: DFHRPC06

XMEOUT Parameters: *date, time,applid, tranid, X'prognum', X'versnum', X'procnum', protocol*

Destination: CRPO

DFHRP1760 *date time applid tranid* **The CICS ONC RPC connection manager detected an error while unregistering a program-version pair with z/OS Communications Server. Program:** *X'prognum'* **Version:** *X'versnum'* **Procedure:** *X'procnum'* **Protocol:** *protocol***. Host IP address** *hostaddr***.**

Explanation: The connection manager detected an error while unregistering a program-version pair with z/OS Communications Server, and is unable to complete the current unregister operation.

System action: The connection manager continues, but

the unregister operation is not completed.

User response: See the associated diagnostics issued by CICS and z/OS Communications Server for problem determination. If message DFHRP0002 was issued to the console, the explanation of that message might contain more information.

Module: DFHRPC06

XMEOUT Parameters: *date, time, applid, tranid, X'prognum', X'versnum', X'procnum', protocol, hostaddr*

Destination: CRPO

DFHRP1761 *date time applid tranid* **The CICS ONC RPC connection manger could not unregister a 4-tuple as it was not registered Program:** *X'prognum'* **Version:** *X'versnum'* **Procedure:** *X'procnum'* **Protocol:** *protocol***. Host IP address:** *hostaddr***.**

Explanation: The 4-tuple cannot be unregistered as it is not registered.

System action: Processing continues.

User response: None.

Module: DFHRPC06

XMEOUT Parameters: *date, time,applid, tranid, X'prognum', X'versnum', X'procnum', protocol, hostaddr*

Destination: CRPO

DFHRP1762 *date time applid tranid* **Enter the Program Number, Version Number, Procedure Number and Protocol for the 4-tuple to be unregistered.**

Explanation: You have not entered all the information needed to identify the 4-tuple to be unregistered.

System action: Processing continues.

User response: Enter the required data.

Module: DFHRPC06

Destination: Terminal End User

DFHRP1763 *date time applid tranid* **The CICS ONC RPC connection manager cannot display the requested 4-tuple because it is not registered with CICS ONC RPC. Program:** *X'prognum'* **Version** *X'versnum'* **Procedure:** *X'procnum'* **Protocol:** *protocol***. Host IP address:** *hostaddr***.**

Explanation: The 4-tuple is not displayed.

System action: Processing continues.

User response: None.

Module: DFHRPC06

XMEOUT Parameters: *date, time,applid, tranid, X'prognum', X'versnum', X'procnum', protocol, hostaddr*

Destination: CRPO

DFHRP1764 *date time applid tranid* **The CICS ONC RPC connection manager detected an internal error while processing 4-tuple definitions on the CICS ONC RPC data set, CICS file** *filename***.**

Explanation: The connection manager detected an internal error while accessing 4-tuples on the data set.

System action: A system dump is taken. The connection manager panel is redisplayed. The requested operation is not performed. Message DFHME0116 should be produced containing the symptom string for this problem.

User response: You need further assistance from IBM to resolve this problem. See the *CICS External Interfaces Guide* and Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed. Report the details of the symptom string given in message DFHME0116. It will aid problem determination.

Module: DFHRPC0A

XMEOUT Parameters: *date, time,applid, tranid, filename*

Destination: CRPO

DFHRP1765 *date time applid tranid* **The CICS ONC RPC connection manager found no records in the CICS ONC RPC data set, CICS file** *filename***, when processing a request to access 4-tuple definitions.**

Explanation: The connection manager found no records on the data set while processing a request to access 4-tuple definitions. This indicates that the CICS ONC RPC definition record is missing.

System action: A system dump is taken. The connection manager panel is displayed. No 4-tuples are displayed. Message DFHME0116 should be produced containing the symptom string for this problem.

User response: Investigate the reason why there are no records. You must use the connection manager to create a new CICS ONC RPC definition record.

Module: DFHRPC0A

XMEOUT Parameters: *date, time,applid, tranid, filename*

Destination: CRPO

DFHRP1766 *date time applid tranid* **The CICS ONC connection manager detected an error while accessing the CICS ONC RPC data set, CICS file** *filename***. EIBRESP:** *eibresp***.**

Explanation: The connection manager could not access

the CICS ONC RPC data set.

The error occurred while processing a request to display 4-tuple definitions from the data set.

An EXEC CICS STARTBR, EXEC CICS READNEXT or EXEC CICS ENDBR was issued, but received the response *eibresp*. The error can occur for one of the following reasons

- No file definition has been found for DFHRPCD, implying that CICS ONC RPC has not been installed correctly.
- BROWSE or READ operations are not allowed, implying that CICS ONC RPC has not been installed correctly.
- The file is DISABLED, either due to an incorrect file definition, or due to operator intervention.
- The file is NOTOPEN, either due to an incorrect file definition, or due to operator intervention.
- BROWSE or READ operations are not authorized, implying that security has not been set up correctly.

System action: A system dump is taken. Without access to the data set, CICS ONC RPC cannot display 4-tuple definitions. Message DFHME0116 should be produced containing the symptom string for this problem.

User response: Use Appendix A of the *Application Programming Reference* manual to find out what the EIBRESP value means, and take appropriate action.

Module: DFHRPC0A

XMEOUT Parameters: *date, time,applid, tranid, filename, eibresp*

Destination: CRPO

DFHRP1767 *date time applid tranid* **The CICS ONC RPC connection manager detected an error while accessing the CICS ONC RPC data set, CICS file** *filename***. EIBRESP:** *eibresp***.**

Explanation: The connection manager cannot access the CICS ONC RPC data set.

The error occurred while processing a request to display 4-tuple definitions from the data set.

An EXEC CICS STARTBR, EXEC CICS READNEXT or EXEC CICS ENDBR was issued, but received the response *eibresp*. The error can occur for one of the following reasons

- The file is defined as remote, and there is an error on the connection to the owning system.
- VSAM has returned an unexpected response to CICS.
- An I/O error occurred on the BROWSE or READ command.

System action: A system dump is taken. Without access to the data set, CICS ONC RPC cannot display 4-tuple definitions. Message DFHME0116 should be produced containing the symptom string for this problem.

User response: Use Appendix A of the *Application Programming Reference* manual to find out what the EIBRESP value means, and take appropriate action.

Module: DFHRPC0A

XMEOUT Parameters: *date, time,applid, tranid, filename, eibresp*

Destination: CRPO

DFHRP1768 *date time applid tranid* **The CICS ONC RPC connection manager detected a logic error while accessing the CICS ONC RPC data set, CICS file** *filename***.**

Explanation: The connection manager could not access the CICS ONC RPC data set. This is a logic error since the connection manager has received an unexpected response from CICS following an EXEC CICS STARTBR, EXEC CICS READNEXT or EXEC CICS ENDBR command.

The error occurred while processing a request to display 4-tuple definitions from the data set.

Without access to the data set, the connection manager cannot process requests to display information from it.

System action: A system dump is taken. The connection manager panel is redisplayed. Message DFHME0116 should be produced containing the symptom string for this problem.

User response: You need further assistance from IBM to resolve this problem. See the *CICS External Interfaces Guide* and Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed. Report the details of the symptom string given in message DFHME0116. It will aid problem determination.

Module: DFHRPC0A

XMEOUT Parameters: *date, time,applid, tranid, filename*

Destination: CRPO

DFHRP1769 *date time applid tranid* **The CICS ONC RPC connection manager found no records on the CICS ONC RPC data set, CICS file** *filename***, when processing a request to access 4-tuple information.**

Explanation: The connection manager has found no records on the CICS ONC RPC data set when processing a request to access 4-tuple definitions.

System action: A system dump is taken. The connection manager panel is redisplayed. Message DFHME0116 should be produced containing the symptom string for this problem.

User response: Investigate the reason why there are

no records. You must use the connection manager to create a new CICS ONC RPC definition record.

Module: DFHRPC0A

XMEOUT Parameters: *date, time,applid, tranid, filename*

Destination: CRPO

DFHRP1770 *date time applid tranid* **The CICS ONC RPC connection manager found no 4-tuple definitions in the CICS ONC RPC data set, CICS file** *filename***.**

Explanation: The connection manager has found no 4-tuple definitions in the CICS ONC RPC data set while processing a request to access 4-tuple definitions.

System action: The connection manager panel is redisplayed. No 4-tuple definitions are displayed.

User response: Use the connection manager to save 4-tuple definitions in the data set.

Module: DFHRPC0A

XMEOUT Parameters: *date, time,applid, tranid, filename*

Destination: CRPO

DFHRP1771 *date time applid tranid* **The CICS ONC RPC connection manager detected an internal error while accessing 4-tuple definitions in the CICS ONC RPC data set, CICS file** *filename***.**

Explanation: The connection manager has detected an internal error while processing a request to access 4-tuple definitions in the CICS ONC RPC data set.

System action: A system dump is taken. The connection manager panel is redisplayed. Message DFHME0116 should be produced containing the symptom string for this problem.

User response: You need further assistance from IBM to resolve this problem. See the *CICS External Interfaces Guide* and Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed. Report the details of the symptom string given in message DFHME0116. It will aid problem determination.

Module: DFHRPC0A

XMEOUT Parameters: *date, time,applid, tranid, filename*

Destination: CRPO

DFHRP1772 *date time applid tranid* **The CICS ONC RPC connection manager could not complete the requested operation. It could not obtain the required CICS storage.**

Explanation: A GETMAIN issued by the connection manager when attempting to build a list of 4-tuples defined in the CICS ONC RPC data set returned an error response.

System action: A system dump is taken. Processing continues. Message DFHME0116 should be produced containing the symptom string for this problem.

User response: CICS may be temporarily short on storage. Retry the operation. If the condition persists, contact your system administrator to see if there are problems with CICS storage. If CICS is not short on storage, you need further assistance from IBM to resolve this problem. See the *CICS External Interfaces Guide* and Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed. Report the details of the symptom string given in message DFHME0116. It will aid problem determination.

Module: DFHRPC0A

XMEOUT Parameters: *date, time,applid, tranid*

Destination: CRPO

DFHRP1773 *date time applid tranid* **The CICS ONC RPC connection manager detected an error when freeing storage.**

Explanation: A FREEMAIN issued by connection manager returned an error response. The connection manager was trying to free storage used to build a list of 4-tuples defined in the CICS ONC RPC data set.

System action: A system dump is taken. Processing continues. Message DFHME0116 should be produced containing the symptom string for this problem.

User response: You need further assistance from IBM to resolve this problem. See the *CICS External Interfaces Guide* and Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed. Report the details of the symptom string given in message DFHME0116. It will aid problem determination.

Module: DFHRPC0A

XMEOUT Parameters: *date, time,applid, tranid*

Destination: CRPO

DFHRP1774 *date time applid tranid* **The CICS ONC RPC connection manager cannot display the requested 4-tuple because it is not saved to the CICS ONC RPC data set. Program:** *X'prognum'* **Version:** *X'versnum'* **Procedure:** *X'procnum'* **Protocol:** *protocol***.**

Explanation: The 4-tuple is not displayed.

System action: Processing continues.

User response: None.

Module: DFHRPC0A

XMEOUT Parameters: *date, time,applid, tranid, X'prognum', X'versnum', X'procnum', protocol*

Destination: CRPO

DFHRP1775 *date time applid tranid* **The CICS ONC RPC connection manager cannot register 4-tuples because CICS ONC RPC is disabled.**

Explanation: A request to register a 4-tuple cannot be performed because CICS ONC RPC was not enabled when the request was made.

System action: Processing continues.

User response: Enable CICS ONC RPC.

Module: DFHRPC0A

XMEOUT Parameters: *date, time,applid, tranid*

Destination: CRPO

DFHRP1800 *date time applid tranid* **The CICS ONC RPC connection manager has purged an alias task. Task status:** *status* **Program:** *X'prognum'* **Version:** *X'versnum'* **Procedure:** *X'procnum'* **Protocol:** *protocol*. **Host IP address:** *hostaddr*.

Explanation: The alias for the 4-tuple has been purged by the connection manager.

System action: *Status* indicates the status of the alias task when the purge request was issued. The following actions are taken

- *Running* indicates that the alias task was running. The connection manager removes the entry from the alias list. The alias abends with abend code ARPJ and message DFHRP0173 is issued.
- *Scheduled* indicates that the alias task was scheduled to run and may still do so. The connection manager removes the entry from the alias list. The alias abends with abend code ARPJ and messages DFHRP0113 and DFHRP0173 are issued.

User response: None.

Module: DFHRPC10

XMEOUT Parameters: *date, time,applid, tranid, status, X'prognum', X'versnum', X'procnum', protocol, hostaddr*

Destination: CRPO

DFHRP1801 *date time applid tranid* **The CICS ONC RPC connection manager has detected an internal error while processing the alias list.**

Explanation: The connection manager has detected an internal error while processing a request to display or purge entries in the alias list.

System action: A system dump is taken. The connection manager panel is redisplayed. No alias tasks are displayed or purged. Message DFHME0116 should be produced containing the symptom string for this problem.

User response: You need further assistance from IBM to resolve this problem. See the *CICS External Interfaces Guide* and Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed. Report the details of the symptom string given in message DFHME0116. It will aid problem determination.

Module: DFHRPC10

XMEOUT Parameters: *date, time,applid, tranid*

Destination: CRPO

DFHRP1802 *date time applid tranid* **The CICS ONC RPC connection manager has detected an internal error while processing the alias list.**

Explanation: The connection manager has detected an internal error while processing a request to display or purge entries in the alias list.

System action: A system dump is taken. The connection manager panel is redisplayed. Message DFHME0116 should be produced containing the symptom string for this problem.

User response: You need further assistance from IBM to resolve this problem. See the *CICS External Interfaces Guide* and Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed. Report the details of the symptom string given in message DFHME0116. It will aid problem determination.

Module: DFHRPC10

XMEOUT Parameters: *date, time,applid, tranid*

Destination: CRPO

DFHRP1803 *date time applid tranid* **The CICS ONC RPC connection manager received an error response while attempting to browse the alias list.**

Explanation: The connection manager attempted to start browsing the alias list, but received a response that indicated a severe error had occurred.

System action: The connection manager panel is redisplayed. No alias tasks are displayed.

User response: You need further assistance from IBM to resolve this problem. See the *CICS External Interfaces Guide* and Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHRPC10

XMEOUT Parameters: *date, time,applid, tranid*

Destination: CRPO

DFHRP1804 *date time applid tranid* **The CICS ONC RPC connection manager could not process the alias list. It could not obtain the required CICS storage.**

Explanation: A GETMAIN issued by the connection manager when attempting to build the alias list returned an error response.

System action: A system dump is taken. The connection manager panel is redisplayed. No alias tasks are displayed. Message DFHME0116 should be produced containing the symptom string for this problem.

User response: CICS may be temporarily short on storage. Retry the operation. If the condition persists, contact your system administrator to see if there are problems with CICS storage. If CICS is not short on storage, you need further assistance from IBM to resolve this problem. See the *CICS External Interfaces Guide* and Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed. Report the details of the symptom string given in message DFHME0116. It will aid problem determination.

Module: DFHRPC10

XMEOUT Parameters: *date, time,applid, tranid*

Destination: CRPO

DFHRP1805 *date time applid tranid* **The CICS ONC RPC connection manager has detected an error when freeing storage.**

Explanation: A FREEMAIN issued by the connection manager when attempting to free storage used to build the alias list returned an error response.

System action: A system dump is taken. Processing continues. Message DFHME0116 should be produced containing the symptom string for this problem.

User response: You need further assistance from IBM to resolve this problem. See the *CICS External Interfaces Guide* and Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed. Report the details of the symptom string given in message DFHME0116. It will aid problem determination.

Module: DFHRPC10

XMEOUT Parameters: *date, time,applid, tranid*

Destination: CRPO

DFHRP1806 *date time applid tranid* **The CICS ONC RPC connection manager received an error response while attempting to retrieve an entry from the alias list.**

Explanation: The connection manager tried to retrieve an entry from the alias list, but received a response that indicated a severe error had occurred.

System action: The connection manager panel is redisplayed.

User response: You need further assistance from IBM to resolve this problem. See the *CICS External Interfaces Guide* and Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHRPC10

XMEOUT Parameters: *date, time,applid, tranid*

Destination: CRPO

DFHRP1807 *date time applid tranid* **The CICS ONC RPC connection manager received an error response while attempting to complete its browse of the alias list.**

Explanation: The connection manager attempted to finish browsing the alias list, but received a response that indicated a severe error had occurred.

System action: The connection manager panel is redisplayed.

User response: You need further assistance from IBM to resolve this problem. See the *CICS External Interfaces Guide* and Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHRPC10

XMEOUT Parameters: *date, time,applid, tranid*

Destination: CRPO

DFHRP1810 *date time applid tranid* **The CICS ONC RPC connection manager received an error response while attempting to delete an entry from the alias list.**

Explanation: The connection manager tried to delete an entry from the alias list, but received a response that indicated a severe error had occurred.

System action: The connection manager panel is redisplayed.

User response: You need further assistance from IBM to resolve this problem. See the *CICS External Interfaces Guide* and Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHRPC10

XMEOUT Parameters: *date, time,applid, tranid*

Destination: CRPO

DFHRP1861 *date time applid tranid* **The CICS ONC RPC connection manager has detected an internal error while accessing an internal table. Host IP address:** *hostaddr***.**

Explanation: An internal error has occurred in the connection manager while accessing an internal table.

System action: A system dump is taken. Processing continues. Message DFHME0116 should be produced containing the symptom string for this problem.

User response: You need further assistance from IBM to resolve this problem. See the *CICS External Interfaces Guide* and Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed. Report the details of the symptom string given in message DFHME0116. It will aid problem determination.

Module: DFHRPC08

XMEOUT Parameters: *date, time,applid, tranid, hostaddr*

Destination: CRPO

DFHRP1862 *date time applid tranid* **The CICS ONC RPC connection manager detected an internal error while accessing an internal table.**

Explanation: The connection manager detected an error while accessing an internal table.

System action: A system dump is taken. If the error occurs during CICS ONC RPC enable processing, CICS ONC RPC remains disabled. If the error occurs during the processing of a client request, an **svcerr_systemerr** call is used to send a reply to the client. Message DFHME0116 should be produced containing the symptom string for this problem.

User response: You need further assistance from IBM to resolve this problem. See the *CICS External Interfaces Guide* and Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed. Report the details of the symptom string given in message DFHME0116. It will aid problem determination.

Module: DFHRPC08

XMEOUT Parameters: *date, time,applid, tranid*

Destination: CRPO

DFHRP1863 *date time applid tranid* **The CICS ONC RPC connection manager has detected an internal error while accessing an internal table. Host IP address:** *hostaddr***.**

Explanation: An internal error has occurred in the connection manager while accessing an internal table.

System action: A system dump is taken. Processing continues. Message DFHME0116 should be produced containing the symptom string for this problem.

User response: You need further assistance from IBM to resolve this problem. See the *CICS External Interfaces Guide* and Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed. Report the details of the symptom string given in message DFHME0116. It will aid problem determination.

Module: DFHRPC08

XMEOUT Parameters: *date, time,applid, tranid, hostaddr*

Destination: CRPO

DFHRP1864 *date time applid tranid* **The CICS ONC RPC connection manager has detected an internal error while accessing an internal table. Host IP address:** *hostaddr***.**

Explanation: An internal error has occurred in the connection manager while accessing an internal table.

System action: A system dump is taken. Processing continues. Message DFHME0116 should be produced containing the symptom string for this problem.

User response: You need further assistance from IBM to resolve this problem. See the *CICS External Interfaces Guide* and Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed. Report the details of the symptom string given in message DFHME0116. It will aid problem determination.

Module: DFHRPC08

XMEOUT Parameters: *date, time,applid, tranid, hostaddr*

Destination: CRPO

DFHRP1865 *date time applid tranid* **The CICS ONC RPC connection manager has detected an internal error while accessing an internal table. Host IP address:** *hostaddr***.**

Explanation: An internal error has occurred in the connection manager while accessing an internal table.

System action: A system dump is taken. Processing continues. Message DFHME0116 should be produced containing the symptom string for this problem.

User response: You need further assistance from IBM to resolve this problem. See the *CICS External Interfaces Guide* and Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed. Report the details of the symptom string given in message DFHME0116. It will aid problem determination.

Module: DFHRPC08

XMEOUT Parameters: *date, time,applid, tranid, hostaddr*

Destination: CRPO

DFHRP1866 *date time applid tranid* **The CICS ONC RPC connection manager detected an internal error while accessing an internal table. Host IP address:** *hostaddr***.**

Explanation: An internal error has occurred in the connection manager while accessing an internal table.

System action: A system dump is taken. Processing continues. Message DFHME0116 should be produced containing the symptom string for this problem.

User response: You need further assistance from IBM

to resolve this problem. See the *CICS External Interfaces Guide* and Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed. Report the details of the symptom string given in message DFHME0116. It will aid problem determination.

Module: DFHRPC0E

XMEOUT Parameters: *date, time,applid, tranid, hostaddr*

Destination: CRPO

DFHRP1867 *date time applid tranid* **The CICS ONC RPC connection manager could not complete the requested operation as an invalid CICS ONC RPC global work area address has been detected.**

Explanation: The connection manager was attempting to access or initialize the list of registered 4-tuples, but detected an invalid global work area address. This may indicate that CICS ONC RPC is disabled.

System action: A system dump is taken. The requested operation is not completed. Message DFHME0116 should be produced containing the symptom string for this problem.

User response: Retry the operation when CICS ONC RPC is enabled. If this occurred during enable processing, check that another connection manager transaction has not disabled CICS ONC RPC.

Module: DFHRPC08

XMEOUT Parameters: *date, time,applid, tranid*

Destination: CRPO

DFHRP1868 *date time applid tranid* **The CICS ONC RPC connection manager could not complete the requested operation. It could not obtain the required CICS storage. Host IP address:** *hostaddr***.**

Explanation: A GETMAIN issued by connection manager when attempting to build a list of registered 4-tuples returned an error response.

System action: A system dump is taken. Processing continues. Message DFHME0116 should be produced containing the symptom string for this problem.

User response: CICS may be temporarily short on storage. Retry the operation. If the condition persists, contact your system administrator to see if there are problems with CICS storage. If CICS is not short on storage, you need further assistance from IBM to resolve this problem. See the *CICS External Interfaces Guide* and Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed. Report the details of the symptom string given in message DFHME0116. It will aid problem determination.

Module: DFHRPC08

XMEOUT Parameters: *date, time,applid, tranid, hostaddr*

Destination: CRPO

DFHRP1869 *date time applid tranid* **The CICS ONC RPC connection manager detected an error when freeing storage. Host IP address:** *hostaddr***.**

Explanation: A FREEMAIN issued by connection manager when attempting to free storage used to build a list of registered 4-tuples returned an error response.

System action: Processing continues.

User response: You need further assistance from IBM to resolve this problem. See the *CICS External Interfaces Guide* and Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHRPC08

XMEOUT Parameters: *date, time,applid, tranid, hostaddr*

Destination: CRPO

DFHRP1879 *date time applid tranid* **The CICS ONC RPC connection manager has detected an internal error while accessing an internal table. Host IP address:** *hostaddr***.**

Explanation: An internal error has occurred in the connection manager while accessing an internal table.

System action: A system dump is taken. Processing continues. Message DFHME0116 should be produced containing the symptom string for this problem.

User response: You need further assistance from IBM to resolve this problem. See the *CICS External Interfaces Guide* and Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed. Report the details of the symptom string given in message DFHME0116. It will aid problem determination.

Module: DFHRPC08

XMEOUT Parameters: *date, time,applid, tranid, hostaddr*

Destination: CRPO

DFHRP1900 *date time applid tranid* **The CICS ONC RPC connection manager could not find the global work area.**

Explanation: The connection manager could not find the global work area. The task related user exit DFHRPTRU has been wrongly defined.

System action: A system dump is taken. CICS ONC RPC remains disabled. Message DFHME0116 should be produced containing the symptom string for this problem.

User response: Ensure that all the CEDA groups for CICS ONC RPC have been installed correctly, then try to enable CICS ONC RPC again.

Investigate whether the operator has disabled DFHRPTRU for any reason.

Module: DFHRPC0B

XMEOUT Parameters: *date, time,applid, tranid*

Destination: CRPO

DFHRP1901 *date time applid tranid* **The CICS ONC RPC connection manager could not find the task-related user exit, program DFHRPTRU.**

Explanation: The connection manager cannot find the task-related user exit, DFHRPTRU, for one of the following reasons

- DFHRPTRU has not been defined to CICS
- DFHRPTRU is not in the CICS load library
- DFHRPTRU has been disabled

System action: A system dump is taken. CICS ONC RPC remains disabled. Message DFHME0116 should be produced containing the symptom string for this problem.

User response: Ensure that all the CEDA groups for CICS ONC RPC have been installed correctly, then try the enable request again.

Module: DFHRPC0B

XMEOUT Parameters: *date, time,applid, tranid*

Destination: CRPO

DFHRP1902 *date time applid tranid* **The CICS ONC RPC connection manager does not have sufficient authority to issue the EXEC CICS EXTRACT EXIT command. EIBRESP2:** *eibresp2***.**

Explanation: The connection manager does not have the correct authority to issue the privileged EXEC CICS EXTRACT EXIT command. It cannot function without this authority.

System action: A system dump is taken. The connection manager abends with abend code ARPZ. Message DFHME0116 should be produced containing the symptom string for this problem.

User response: Use the EIBRESP2 value to identify the problem. Ensure that the connection manager and its associated program DFHRPC00 have the necessary level of security to issue the EXEC CICS EXTRACT EXIT command for the CICS ONC RPC task related user exit DFHRPTRU.

Module: DFHRPC0B

XMEOUT Parameters: *date, time,applid, tranid, eibresp2*

Destination: CRPO

DFHRP1903 *date time applid tranid* **The CICS ONC RPC connection manager has received an unexpected response from CICS.**

Explanation: The connection manager received an unexpected response from CICS to an EXEC CICS command.

This is a logic error.

System action: A system dump is taken. CICS ONC RPC is disabled. Message DFHME0116 should be produced containing the symptom string for this problem.

User response: You need further assistance from IBM to resolve this problem. See the *CICS External Interfaces Guide* and Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHRPC0B

XMEOUT Parameters: *date, time,applid, tranid*

Destination: CRPO

DFHRP1906 *date time applid tranid* **The CICS ONC RPC connection manager found an error in the length of the CICS ONC RPC global work area.**

Explanation: The connection manager found that the length of its global work area is not correct.

System action: A system dump is taken. CICS ONC RPC is disabled. It is not possible to enable CICS ONC RPC until DFHRPTRU has been correctly defined to CICS. Message DFHME0116 should be produced containing the symptom string for this problem.

User response: Ensure that DFHRPTRU has not been enabled by an operator command.

Module: DFHRPC0B

XMEOUT Parameters: *date, time,applid, tranid*

Destination: CRPO

DFHRP1907 *date time applid tranid* **The CICS ONC RPC connection manager found invalid data in the global work area.**

Explanation: The connection manager found invalid data in the global work area. This is probably caused by a storage overwrite.

System action: A system dump is taken. CICS ONC RPC is disabled. Message DFHME0116 should be produced containing the symptom string for this problem.

User response: Investigate the reason for the storage overwrite

Module: DFHRPC0B

XMEOUT Parameters: *date, time,applid, tranid*

Destination: CRPO

DFHRP1950 *date time applid tranid* **The CICS ONC RPC connection manager detected a logic error. Program:** *X'prognum'* **Version:** *X'versnum'* **Procedure:** *X'procnum'* **Protocol:** *protocol***. Host IP address** *hostaddr***.**

Explanation: The connection manager has received an unexpected response from CICS following an EXEC CICS command.

System action: A system dump is taken. Registration of the 4-tuple currently being processed is not possible. The 4-tuple is not registered. Message DFHME0116 should be produced containing the symptom string for this problem.

User response: You need further assistance from IBM to resolve this problem. See the *CICS External Interfaces Guide* and Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed. Report the details of the symptom string given in message DFHME0116. It will aid problem determination.

Module: DFHRPC0E

XMEOUT Parameters: *date, time,applid, tranid, X'prognum', X'versnum', X'procnum', protocol, hostaddr*

Destination: CRPO

DFHRP1951 *date time applid tranid* **The CICS ONC RPC connection manager could not load the requested XDR program** *xdrname***. EIBRESP:** *eibresp* **EIBRESP2:** *eibresp2* **Program:** *X'prognum'* **Version:** *X'versnum'* **Procedure:** *X'procnum'* **Protocol:** *protocol***. Host IP address:** *hostaddr***.**

Explanation: The connection manager used EXEC CICS LOAD for the CICS program *xdrname*, which has been requested as the XDR routine for the 4-tuple being processed, but received an error response.

System action: The 4-tuple is not registered.

User response: The problem is probably due to an error in defining the requested program *xdrname* to CICS, or to wrongly defining an XDR routine name for the 4-tuple. Use the values provided in *eibresp* and *eibresp2* to identify the reason for the error in the LOAD, and use the CICS CEDA transaction or the connection manager to rectify the problem.

Module: DFHRPC0E

XMEOUT Parameters: *date, time,applid, tranid, xdrname, eibresp, eibresp2, X'prognum', X'versnum', X'procnum', protocol, hostaddr*

Destination: CRPO

DFHRP1952 *date time applid tranid* **The CICS ONC RPC connection manager could not load the XDR routine** *xdrname***. EIBRESP:** *eibresp* **EIBRESP2:** *eibresp2* **Program** *X'prognum'* **Version:** *X'versnum'* **Procedure:** *X'procnum'* **Protocol:** *protocol***. Host IP address** *hostaddr***.**

Explanation: The connection manager used EXEC CICS LOAD for CICS program with name *xdrname*, which has been requested as the XDR routine for the 4-tuple being processed, but received an error response.

System action: The 4-tuple is not registered.

User response: Use the values provided in EIBRESP and EIBRESP2 to identify the reason for the error in the LOAD.

Module: DFHRPC0E

XMEOUT Parameters: *date, time,applid, tranid, xdrname, eibresp, eibresp2, X'prognum', X'versnum', X'procnum', protocol, hostaddr*

Destination: CRPO

DFHRP1953 *date time applid tranid* **The CICS ONC RPC connection manager detected a logic error when loading XDR routine** *xdrname***. EIBRESP:** *eibresp* **EIBRESP2:** *eibresp2* **Program:** *X'prognum'* **Version:** *X'versnum'* **Procedure:** *X'procnum'* **Protocol:** *protocol***. Host IP address:** *hostaddr***.**

Explanation: The connection manager used EXEC CICS LOAD for the CICS program *xdrname*, which has been requested as the XDR routine for the 4-tuple being processed, but it received an unexpected response.

System action: A system dump is taken. The 4-tuple is not registered. Message DFHME0116 should be produced containing the symptom string for this problem.

User response: You need further assistance from IBM to resolve this problem. See the *CICS External Interfaces Guide* and Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed. Report the details of the symptom string given in message DFHME0116. It will aid problem determination.

Module: DFHRPC0E

XMEOUT Parameters: *date, time,applid, tranid, xdrname, eibresp, eibresp2, X'prognum', X'versnum', X'procnum', protocol, hostaddr*

Destination: CRPO

DFHRP1954 *date time applid tranid* **The CICS ONC RPC connection manager detected a logic error detected while registering a 4-tuple. Program:** *X'prognum'* **Version:** *X'versnum'* **Procedure:** *X'procnum'* **Protocol:** *protocol***. Host IP address:** *hostaddr***.**

Explanation: The connection manager has received an unexpected response from CICS following an EXEC CICS command.

System action: A system dump is taken. The connection manager abends with abend code ARPV. Message DFHME0116 should be produced containing the symptom string for this problem.

User response: You need further assistance from IBM to resolve this problem. See the *CICS External Interfaces Guide* and Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed. Report the details of the symptom string given in message DFHME0116. It will aid problem determination.

Module: DFHRPC0E

XMEOUT Parameters: *date, time,applid, tranid, X'prognum', X'versnum', X'procnum', protocol, hostaddr*

Destination: CRPO

DFHRP1955 *date time applid tranid* **The CICS ONC RPC connection manager could not register a 4-tuple because of an internal error. Program:** *X'prognum'* **Version:** *X'versnum'* **Procedure:** *X'procnum'* **Protocol:** *protocol***. Host IP address:** *hostaddr***.**

Explanation: The connection manager could not add an XDR routine name to an internal table.

System action: The 4-tuple is not registered.

User response: Try to register the 4-tuple again If the condition persists, you need further assistance from IBM to resolve this problem. See the *CICS External Interfaces Guide* and Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHRPC0E

XMEOUT Parameters: *date, time,applid, tranid, X'prognum', X'versnum', X'procnum', protocol, hostaddr*

Destination: CRPO

DFHRP1956 *date time applid tranid* **CICS ONC RPC is being disabled. Requested operation not performed. Program:** *X'prognum'* **Version:** *X'versnum'* **Procedure:** *X'procnum'* **Protocol:** *protocol***. Host IP address** *hostaddr***.**

Explanation: The connection manager is unable to complete the current register operation because CICS ONC RPC is in disable processing.

System action: The 4-tuple is not registered.

User response: Once CICS ONC RPC has completed disable processing, enable it again using the connection manager, and try the register operation again.

Module: DFHRPC0E

XMEOUT Parameters: *date, time,applid, tranid, X'prognum', X'versnum', X'procnum', protocol, hostaddr*

Destination: CRPO

DFHRP1957 *date time applid tranid* **CICS ONC RPC is not enabled, so the register operation could not be performed. Program** *X'prognum'* **Version:** *X'versnum'* **Procedure:** *X'procnum'* **Protocol:** *protocol***. Host IP address** *hostaddr***.**

Explanation: The connection manager is unable to complete the current register operation because CICS ONC RPC is not currently enabled. It may have been disabled by another connection manager transaction.

System action: The 4-tuple is not registered.

User response: Use the connection manager to enable CICS ONC RPC, and try the register operation again.

Module: DFHRPC0E

XMEOUT Parameters: *date, time,applid, tranid, X'prognum', X'versnum', X'procnum', protocol, hostaddr*

Destination: CRPO

DFHRP1958 *date time applid tranid* **The CICS ONC RPC connection manager could not register the 4-tuple because it was already registered. Program:** *X'prognum'* **Version:** *X'versnum'* **Procedure:** *X'procnum'* **Protocol:** *protocol***. Host IP address:** *hostaddr***.**

Explanation: The connection manager is unable to complete the current register operation because the requested 4-tuple is already registered.

System action: The connection manager continues, but the 4-tuple is not registered.

User response: This may be a temporary condition, so try the register again. If message DFHRP0002 was issued to the console, the explanation of that message might contain more information. If the condition persists, see the *CICS External Interfaces Guide* for further guidance on how to proceed.

Module: DFHRPC0E

XMEOUT Parameters: *date, time,applid, tranid, X'prognum', X'versnum', X'procnum', protocol, hostaddr*

Destination: CRPO

DFHRP1959 *date time applid tranid* **The CICS ONC RPC connection manager detected an error while registering a 3-tuple with z/OS Communications Server. Program:** *X'prognum'* **Version:** *X'versnum'* **Procedure:** *X'procnum'* **Protocol:** *protocol***. Host IP address:** *hostaddr***.**

Explanation: The connection manager is unable to complete the current register operation because an error was returned by z/OS Communications Server.

System action: The connection manager continues, but the 4-tuple is not registered.

User response: See the associated diagnostics issued by CICS and z/OS Communications Server for problem determination. If message DFHRP0002 was issued to the console, the explanation of that message might contain more information.

Module: DFHRPC0E

XMEOUT Parameters: *date, time, applid, tranid, X'prognum', X'versnum', X'procnum', protocol, hostaddr*

Destination: CRPO

DFHRP1960 *date time applid tranid* **The CICS ONC RPC connection manager detected an error while registering a 3-tuple with TCP/IP for MVS. Program:** *X'prognum'* **Version:** *X'versnum'* **Procedure:** *X'procnum'* **Protocol:** *protocol***. Host IP address:** *hostaddr***.**

Explanation: The connection manager is unable to complete the current register operation because an error was returned by TCP/IP for MVS. This may be on an **svcudp_create** or **svctcp_create** operation.

System action: The connection manager continues, but the 4-tuple is not registered.

User response: See the associated diagnostics issued by CICS and TCP/IP for MVS for problem determination. If message DFHRP0002 was issued to the console, the explanation of that message might contain more information.

Module: DFHRPC0E

XMEOUT Parameters: *date, time,applid, tranid, X'prognum', X'versnum', X'procnum', protocol, hostaddr*

Destination: CRPO

DFHRP1961 *date time applid tranid* **Data entered in field** *fieldname1* **is incompatible with data entered in field** *fieldname2***.**

Explanation: Data was entered on a connection manager panel in *fieldname1* that is incompatible with data entered in *fieldname2*.

System action: The connection manager panel is redisplayed and the field in error is highlighted.

User response: Enter compatible data in the fields indicated.

Module: DFHRPC0D, DFHRPC05

Destination: Terminal End User

DFHRP1962 *date time applid tranid* **Enter the Program Number, Version Number, Procedure Number and Protocol for the 4-tuple to be displayed.**

Explanation: To retrieve information about a 4-tuple in the CICS ONC RPC data set you must supply the program number, version number, procedure number, and protocol.

System action: None.

User response: Enter the required data.

Module: DFHRPC0D, DFHRPC03

Destination: Terminal End User

DFHRP1963 *date time applid tranid* **Enter the following fields before register or save to data set: Program Number, Version Number, Procedure Number, XDR Routines, and Program Name.**

Explanation: The following fields are required before registration or saving of the 4-tuple: the Program Number, Version Number, Procedure Number, Inbound XDR Routine, Outbound XDR Routine (if RPC Call Type of blocking), and Program Name.

System action: The connection manager panel is redisplayed.

User response: Enter valid data in the field(s) indicated.

Module: DFHRPC0D, DFHRPC05

Destination: Terminal End User

DFHRP1964 *date time applid tranid* **Data entered in the Getlengths field is incompatible with data entered in the Server Input Length or Server Output Length fields.**

Explanation: Either you have specified YES for Getlengths and put information in Server Input Length or Server Output Length, or you have specified NO for Getlengths but put no information in Server Input Length and Server Output Length.

System action: The connection manager panel is redisplayed.

User response: Decide whether the lengths are to be specified on this panel, or to be supplied by the **Getlengths** function of the converter for this 4-tuple.

Module: DFHRPC0D, DFHRPC05

Destination: Terminal End User

DFHRP1965 *date time applid tranid* **With Server Data Format of CONTIGUOUS, the Server Input Length and Server Output Length together must not exceed 32767 Bytes.**

Explanation: An invalid server data length has been detected on a CRPC panel. The maximum total data length which can pass between the alias and the CICS program that services the client request is 32767. If server data format of CONTIGUOUS is specified, the Server Input Length and the Server Output Length added together must not exceed this value.

System action: The connection manager panel is redisplayed.

User response: Enter valid data in the fields.

Module: DFHRPC0D, DFHRPC05

Destination: Terminal End User

DFHRP1966 *date time applid tranid* **Procedure Number of 0 is not allowed.**

Explanation: A value of zero has been entered in the Procedure Number field. This is not allowed.

System action: The connection manager panel is redisplayed, and the field in error is highlighted.

User response: Enter valid data in the field indicated.

Module: DFHRPC0D, DFHRPC05, DFHRPC06

Destination: Terminal End User

DFHRP1967 *date time applid tranid* **The CICS ONC RPC connection manager detected an internal error while trying to register a 4-tuple. Program:** *X'prognum'* **Version:** *X'versnum'* **Procedure:** *X'procnum'* **Protocol:** *protocol***. Host IP address:** *hostaddr***.**

Explanation: The connection manager detected an internal error while trying to register a 4-tuple.

System action: A system dump is taken. The connection manager continues. Message DFHME0116 should be produced containing the symptom string for this problem.

User response: See associated messages to find out whether the 4-tuple was registered. You need further assistance from IBM to resolve this problem. See the *CICS External Interfaces Guide* and Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed. Report the details of the symptom string given in message DFHME0116. It will aid problem determination.

Module: DFHRPC0E

XMEOUT Parameters: *date, time,applid, tranid, X'prognum', X'versnum', X'procnum', protocol, hostaddr*

Destination: CRPO

DFHRP1968 *date time applid tranid* **The CICS ONC RPC connection manager has not performed a register operation because it detected an invalid global work area. Program:** *X'prognum'* **Version:** *X'versnum'* **Procedure:** *X'procnum'* **Protocol:** *protocol***. Host IP address:** *hostaddr***.**

Explanation: The connection manager is unable to complete the current register operation because it has detected an invalid global work area address. CICS ONC RPC may have been disabled by another connection manager transaction.

System action: The connection manager continues, but the 4-tuple is not registered.

User response: Use the connection manager to enable CICS ONC RPC, and try the register operation again. If message DFHRP0002 was issued to the console, the explanation of that message might contain more information.

Module: DFHRPC0E

XMEOUT Parameters: *date, time,applid, tranid, X'prognum', X'versnum', X'procnum', protocol, hostaddr*

Destination: CRPO

DFHRP1969 *date time applid tranid* **The CICS ONC RPC connection manager detected an abend in converter** *progname* **during Getlengths processing. Program:** *X'prognum'* **Version:** *X'versnum'* **Procedure:** *X'procnum'* **Protocol** *protocol***. Host IP address:** *hostaddr***.**

Explanation: The connection manager is unable to complete the current register operation because it has detected an abend in the converter when invoking it for the **Getlengths** function.

System action: The connection manager continues, but the 4-tuple is not registered.

User response: Use CICS diagnostics to correct the converter.

Module: DFHRPC0E

XMEOUT Parameters: *date, time,applid, tranid, progname, X'prognum', X'versnum', X'procnum', protocol, hostaddr*

Destination: CRPO

DFHRP1970 *date time applid tranid* **The CICS ONC RPC connection manager has registered the 4-tuple. Program:** *X'prognum'* **Version:** *X'versnum'* **Procedure:** *X'procnum'* **Protocol:** *protocol***. Host IP address** *hostaddr***.**

Explanation: The 4-tuple has been registered.

System action: None.

User response: None.

Module: DFHRPC0E

XMEOUT Parameters: *date, time,applid, tranid, X'prognum', X'versnum', X'procnum', protocol, hostaddr*

Destination: CRPO

DFHRP1980 *date time applid tranid* **The CICS ONC RPC connection manager cannot register the 4-tuple because it has already been registered. Program:** *X'prognum'* **Version:** *X'versnum'* **Procedure:** *X'procnum'* **Protocol:** *protocol***. Host IP address:** *hostaddr***.**

Explanation: The 4-tuple has already been registered.

System action: The connection manager panel is redisplayed.

User response: Enter a new 4-tuple for registration.

Module: DFHRPC0E

XMEOUT Parameters: *date, time,applid, tranid, X'prognum', X'versnum', X'procnum', protocol, hostaddr*

Destination: CRPO

DFHRP1981 *date time applid tranid* **The CICS ONC RPC connection manager detected an internal error while registering a 4-tuple. Program:** *X'prognum'* **Version:** *X'versnum'* **Procedure:** *X'procnum'* **Protocol:** *protocol***. Host IP address:** *hostaddr***.**

Explanation: The connection manager has detected an internal error while registering the 4-tuple.

System action: The 4-tuple is not registered.

User response: You need further assistance from IBM to resolve this problem. See the *CICS External Interfaces Guide* and Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHRPC0E

XMEOUT Parameters: *date, time,applid, tranid, X'prognum', X'versnum', X'procnum', protocol, hostaddr*

Destination: CRPO

DFHRP1982 *date time applid tranid* **The CICS ONC RPC connection manager detected an internal error detected while registering a 4-tuple. Program:** *X'prognum'* **Version:** *X'versnum'* **Procedure:** *X'procnum'* **Protocol:** *protocol***. Host IP address:** *hostaddr***.**

Explanation: The connection manager has detected an internal error while registering the 4-tuple.

System action: Processing continues.

User response: You need further assistance from IBM to resolve this problem. See the *CICS External Interfaces Guide* and Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHRPC0E

XMEOUT Parameters: *date, time,applid, tranid, X'prognum', X'versnum', X'procnum', protocol, hostaddr*

Destination: CRPO

DFHRP1983 *date time applid tranid* **The CICS ONC RPC connection manager detected an error while linking to the converter** *converter_program_name***. EIBRESP:** *eibresp* **EIBRESP2** *resp2val* **Program:** *X'prognum'* **Version:** *X'versnum'* **Procedure:** *X'procnum'* **Protocol:** *protocol***. Host IP address:** *hostaddr***.**

Explanation: The connection manager used EXEC CICS LINK for the converter to perform **Getlengths** processing for the 4-tuple. The response was PGMIDERR.

System action: The 4-tuple is not registered.

User response: Use the EIBRESP2 value to identify the problem.

Module: DFHRPC0E

XMEOUT Parameters: *date, time,applid, tranid, converter_program_name, eibresp, resp2val,X'prognum', X'versnum', X'procnum',protocol, hostaddr*

Destination: CRPO

DFHRP1984 *date time applid tranid* **The CICS ONC RPC connection manager cannot link to converter** *converter_program_name* **because it is remote. EIBRESP:** *eibresp* **EIBRESP2:** *resp2val* **Program:** *X'prognum'* **Version:** *X'versnum'* **Procedure:** *X'procnum'* **Protocol:** *protocol***. Host IP address:** *hostaddr***.**

Explanation: The connection manager used EXEC CICS LINK for the converter to perform **Getlengths** processing, but the response was TERMERR or SYSIDERR. The connection manager passes pointers to

the converter, so the converter must be in the same CICS region as CICS ONC RPC.

System action: The 4-tuple is not registered.

User response: Install and define the converter program in the same CICS region as CICS ONC RPC.

Module: DFHRPC0E

XMEOUT Parameters: *date, time,applid, tranid, converter_program_name, eibresp, resp2val,X'prognum', X'versnum', X'procnum',protocol, hostaddr*

Destination: CRPO

DFHRP1985 *date time applid tranid* **The CICS ONC RPC connection manager received an unexpected response from CICS while linking to converter** *converter_program_name*. **EIBRESP** *eibresp* **EIBRESP2:** *resp2val* **Program:** *X'prognum'* **Version:** *X'versnum'* **Procedure:** *X'procnum'* **Protocol:** *protocol*. **Host IP address** *hostaddr*.

Explanation: The connection manager used EXEC CICS LINK for the converter to perform **Getlengths** processing, but received an unexpected response.

System action: The 4-tuple is not registered.

User response: See the associated diagnostics issued by CICS for problem determination.

Module: DFHRPC0E

XMEOUT Parameters: *date, time,applid, tranid, converter_program_name, eibresp, resp2val,X'prognum', X'versnum', X'procnum',protocol, hostaddr*

Destination: CRPO

DFHRP1986 *date time applid tranid* **The CICS ONC RPC connection manager is not authorized to link to converter** *converter_program_name*. **EIBRESP:** *eibresp* **EIBRESP2** *resp2val* **Program:** *X'prognum'* **Version:** *X'versnum'* **Procedure:** *X'procnum'* **Protocol:** *protocol*. **Host IP address:** *hostaddr*.

Explanation: The connection manager used EXEC CICS LINK for the converter to perform **Getlengths** processing, but received a NOTAUTH response.

System action: The 4-tuple is not registered.

User response: When CICS ONC RPC is next disabled, redefine connection manager with RESSEC=NO.

Module: DFHRPC0E

XMEOUT Parameters: *date, time,applid, tranid, converter_program_name, eibresp, resp2val,X'prognum', X'versnum', X'procnum',protocol, hostaddr*

Destination: CRPO

DFHRP1988 *date time applid tranid* **The CICS ONC RPC connection manager encountered an error in Getlengths processing in converter** *converter_program_name*. **Program:** *X'prognum'* **Version:** *X'versnum'* **Procedure:** *X'procnum'* **Protocol:** *protocol*. **Host IP address** *hostaddr*.

Explanation: **Getlengths** returned URP_EXCEPTION.

System action: The **Getlengths** parameter area is traced. The 4-tuple is not registered.

User response: Use the trace information to correct the converter.

Module: DFHRPC0E

XMEOUT Parameters: *date, time,applid, tranid, converter_program_name, X'prognum', X'versnum', X'procnum', protocol, hostaddr*

Destination: CRPO

DFHRP1989 *date time applid tranid* **The CICS ONC RPC connection manager encountered an error in Getlengths processing in converter** *converter_program_name*. **Program:** *X'prognum'* **Version:** *X'versnum'* **Procedure:** *X'procnum'* **Protocol:** *protocol*. **Host IP address** *hostaddr*.

Explanation: **Getlengths** returned URP_INVALID.

System action: The **Getlengths** parameter area is traced. The 4-tuple is not registered.

User response: Use the trace information to correct the converter.

Module: DFHRPC0E

XMEOUT Parameters: *date, time,applid, tranid, converter_program_name, X'prognum', X'versnum', X'procnum', protocol, hostaddr*

Destination: CRPO

DFHRP1990 *date time applid tranid* **The CICS ONC RPC connection manager encountered an error during Getlengths processing in converter** *converter_program_name*. **Program:** *X'prognum'* **Version:** *X'versnum'* **Procedure:** *X'procnum'* **Protocol:** *protocol*. **Host IP address** *hostaddr*.

Explanation: **Getlengths** returned URP_DISASTER.

System action: The **Getlengths** parameter area is traced. The 4-tuple is not registered.

User response: Use the trace information to correct the converter.

Module: DFHRPC0E

XMEOUT Parameters: *date, time,applid, tranid, converter_program_name, X'prognum', X'versnum', X'procnum', protocol, hostaddr*

Destination: CRPO

DFHRP1991 *date time applid tranid* **The CICS ONC RPC connection manager has detected an invalid server data length returned by the Getlengths function of converter** *converter_program_name***. Program:** *X'prognum'* **Version** *X'versnum'* **Procedure:** *X'procnum'* **Protocol:** *protocol***. Host IP address:** *hostaddr***.**

Explanation: The communication area length calculated from the **glength_server_data_format**, **glength_server_input_data_len**, and **glength_server_output_data_len** parameters exceeds 32□767.

System action: The **Getlengths** parameter area is traced. The 4-tuple is not registered.

User response: Use the trace information to correct the converter.

Module: DFHRPC0E

XMEOUT Parameters: *date, time,applid, tranid, converter_program_name, X'prognum', X'versnum', X'procnum', protocol, hostaddr*

Destination: CRPO

DFHRP1992 *date time applid tranid* **The CICS ONC RPC connection manager has detected an invalid server data format returned by the Getlengths function of converter** *converter_program_name***. Program:** *X'prognum'* **Version** *X'versnum'* **Procedure:** *X'procnum'* **Protocol:** *protocol***. Host IP address:** *hostaddr***.**

Explanation: The **glength_server_data_format** returned must have a value of URP_CONTIGUOUS or URP_OVERLAID.

System action: The **Getlengths** parameter area is traced. The 4-tuple is not registered.

User response: The **glength_server_data_format** must be set to URP_CONTIGUOUS or URP_OVERLAID, or left unaltered, in which case the value specified on panel DFHRP5 when the 4-tuple was registered will be used.

Module: DFHRPC0E

XMEOUT Parameters: *date, time,applid, tranid, converter_program_name, X'prognum', X'versnum', X'procnum', protocol, hostaddr*

Destination: CRPO

DFHRP2000 *date time applid tranid* **A browse of the CICS ONC RPC alias list could not be performed because another browse is active.**

Explanation: Only one task can browse the alias list at a time. This is enforced by use of an ENQ in the connection manager. However, the alias list component has been called to start a browse and has found that there is already a browse active. This is due either to a logic error in CICS ONC RPC code, or to a storage overwrite.

System action: A system dump is taken. The browse request is rejected. Message DFHME0116 should be produced containing the symptom string for this problem.

User response: If the problem is due to a storage overwrite, it is almost certain that there are errors in other CICS functions for no apparent reason. If this is not the case, you may need further assistance from IBM to resolve this problem. See the *CICS External Interfaces Guide* and Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed. Report the details of the symptom string given in message DFHME0116. It will aid problem determination.

Module: DFHRPAL

XMEOUT Parameters: *date, time,applid, tranid*

Destination: CRPO

DFHRSnnnn messages

DFHRS0001 *applid* **An abend (code** *aaa/bbbb***) has occurred at offset** *X'offset'* **in module** *modname***.**

Explanation: An abnormal end (abend) or program check has occurred in module *modname*. This implies that there may be an error in the CICS code. Alternatively, unexpected data has been input, or storage has been overwritten.

The code *aaa/bbbb* is a 3-digit hexadecimal MVS code (if applicable), followed by a 4-digit alphanumeric CICS code. The MVS code is a system completion code (for example, 0C1 or D37). If an MVS code is not applicable, this field is filled with three hyphens. The CICS code is an abend code or a number referring to a CICS message (for example, AKEA is a CICS abend code; 1310 refers to message DFHTS1310).

System action: An exception entry is made in the trace table. A system dump is taken, unless you have specifically suppressed dumps in the dump table.

CICS continues unless you have specified in the dump table that CICS should terminate. If appropriate, an error return code is sent to the caller of this domain. In this case CICS could be terminated by the caller (for example, the domain manager, DFHDMDM). A message is issued to this effect.

Message DFHME0116 should be produced containing the symptom string for this problem.

User response: Notify the system programmer. If CICS is still running, it is necessary to decide whether to terminate CICS.

Look up the MVS code, if there is one, in the relevant MVS codes manual.

Next, look up the CICS alphanumeric code. This tells you, for example, whether the error was a program check, an abend, or a runaway, and may give you some guidance concerning user response.

If module *modname* is not crucial to the running of your CICS system, you may decide to continue to run and bring CICS down at a convenient time to resolve the problem. If you cannot run without the full use of module *modname* you should bring CICS down in a controlled shutdown.

You need further assistance from IBM to resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHRSDM, DFHRSDU, DFHRSSR, DFHRSSM, DFHRSXM

XMEOUT Parameters: *applid, aaa/bbbb, X'offset', modname*

Destination: Console

DFHRS0002 *applid* **A severe error (code** *X'code'***) has occurred in module** *modname***.**

Explanation: An error has been detected in module *modname*. The code X'*code*' is the exception trace point ID which uniquely identifies what the error is and where the error was detected.

System action: An exception entry (code X'*code*' in the message) is made in the trace table. A system dump is taken, unless you have specifically suppressed dumps in the dump table.

CICS continues unless you have specified in the dump table that CICS should terminate. If appropriate, an error return code is sent to the caller of this domain. In this case, CICS could be terminated by the caller (for example, the domain manager, DFHDMDM). A message is issued to this effect.

Message DFHME0116 should be produced containing the symptom string for this problem.

User response: This indicates a possible error in CICS code. The severity of its impact depends on the importance of the function being executed at the time of the error.

CICS may not have been terminated. If the message occurs once and module *modname* is not crucial to the running of your CICS system, you may decide to continue to run and bring CICS down at a convenient time to resolve the problem.

If the message recurs or if you cannot run without the full use of module *modname*, you should bring CICS down in a controlled shutdown.

See the *CICS Trace Entries* for a description of the exception trace point ID, X'*code*' and the data it contains.

You need further assistance from IBM to resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHRSDM, DFHRSDU, DFHRSSM, DFHRSSR, DFHRSXM

XMEOUT Parameters: *applid, X'code', modname*

Destination: Console

DFHRS2110 *date time applid* **Abnormal reply to exchange log name request received from system** *sysid***, netname** *netname***, protocol** *protocol***.**

Explanation: An abnormal reply has been received in response to an exchange log name request sent either following a session failure or at first session initiation after system restart. The abnormal reply may indicate that

- The remote system detected a warm or cold mismatch, or a log name mismatch.
- The remote system failed to interpret the exchange log name data sent to it.

System action: For APPC protocol, any synclevel 2 attaches are inhibited. This prevents recoverable activity between the two systems.

For IRC protocol, the message indicates that resynchronization was attempted and failed.

User response: The most likely cause of the message is an initial start (as opposed to emergency restart or its equivalent) of this system when the remote system has resynchronization work outstanding. If it is a cold or warm mismatch or log name mismatch, other diagnostic messages on the local system may indicate the reason for the error. If it is not, examine the log of the remote system which should have generated diagnostic information describing the reason for the abnormal response.

For APPC protocol where a logname mismatch is suspected, override the error situation by issuing the CEMT SET CONN(*sysid*) NORECOVDATA command for the failing connection. It may be necessary to issue this command (or its equivalent) on both sides of the connection. resources which may be waiting for APPC resynchronization. In addition, CICS does not carry out any APPC resynchronization activity with the remote system.

For IRC, the message may indicate an initial start of one system when the other has resynchronization outstanding; the resynchronization was started before the initial start occurred and becomes invalid. The associated unit of work may need to be committed by using CEMT SET UOW. The message should not recur.

Module: DFHCRRSY

XMEOUT Parameters: *date, time,applid, sysid, netname, protocol*

Destination: Console and Transient Data Queue CSMT

DFHRS2111 *date time applid* **Cold/Warm restart mismatch with system** *sysid*,**netname** *netname*,**protocol** *protocol*.

Explanation: A cold start indication was received from the remote system during an exchange log names sequence. However, this system has units of work that need resynchronizing from the previous run. An exchange log names sequence is started either following a session failure or at first session initiation after system restart; both the local and remote systems may initiate the sequence at the same time.

System action: Any synclevel 2 attaches are inhibited. This means that recovery activity between the two systems is prevented.

User response: Override the error by issuing CEMT SET CONN(*sysid*) NOTPENDING commands for the failing connection. resources which may be waiting for APPC resynchronization. In addition CICS does not carry out any APPC resynchronization with the remote system.

Module: DFHCRRSY

XMEOUT Parameters: *date, time,applid, sysid, netname, protocol*

Destination: Console and Transient Data Queue CSMT

DFHRS2112 *date time applid* **Log name mismatch with system** *sysid*, **netname** *netname*, **protocol** *protocol*. **Expected LUNAME.LOGNAME** *local_logname* **Received LUNAME.LOGNAME** *remote_logname* .

Explanation: A failure has occurred in the exchange log names process which is carried out either following a session failure or at first session initiation after system restart. This system's memory of the remote system's log name conflicts with the log name sent by the remote system.

System action: A system dump is taken unless you have specifically suppressed dumps in the dump table.

Message DFHME0116 should be produced containing the symptom string for this problem.

For APPC protocol, any synclevel 2 attaches are inhibited. This means that recoverable activity between the two systems is prevented.

For IRC protocol, resynchronization was attempted and failed.

User response: For APPC, override the error by issuing the CEMT SET CONN(*sysid*) NORECOVDATA command for the failing connection. It may be necessary to issue this command (or its equivalent) on both sides of the connection. resources which may be waiting for APPC resynchronization. In addition CICS does not carry out any APPC resynchronization activity with the remote system. The message may indicate a logic error in CICS or the remote system, and you may need assistance from IBM to prevent a recurrence. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

For IRC, the message may indicate the initial start of one system when the other has resynchronization outstanding; the resynchronization was started before the initial start occurred and becomes invalid. The associated unit of work may need to be committed by using CEMT SET UOW. The message should not recur.

Module: DFHCRRSY

XMEOUT Parameters: *date, time,applid, sysid, netname, protocol, local_logname, remote_logname*

Destination: Console and Transient Data Queue CSMT

DFHRS2113 *date time applid* **Log name mismatch with system** *sysid***, netname** *netname***, protocol** *protocol***, local LOGNAME** *local_logname* **, received LOGNAME** *remote_logname* **.**

Explanation: This message is issued when a failure has occurred in the exchange log names process which is carried out prior to resynchronization following an earlier session failure. System *sysid* has sent an exchange log names request which contains the remote system's memory (*remote_logname*) of this system's log name (*local_logname*).

This system has detected a log name mismatch. This indicates that system *sysid* and this system do not have the correct logs for resynchronization.

System action: For APPC protocol, any synclevel 2 attaches are inhibited. This means that recoverable activity between the two systems is prevented.

For IRC protocol, the message indicates that resynchronization was attempted and failed.

User response: For APPC, override the error by issuing the CEMT SET CONN(*sysid*) NORECOVDATA command for the failing connection It may be necessary to issue this command (or its equivalent) on both sides of the connection. resources which may be waiting for APPC resynchronization. In addition CICS does not carry out any APPC resynchronization activity with the remote system. The message may indicate a logic error in CICS or the remote system, and you may need assistance from IBM to prevent a recurrence. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

For IRC, the message may indicate the initial start of one system when the other has resynchronization outstanding; the resynchronization was started before the initial start occurred and becomes invalid. The associated unit of work may need to be committed by using CEMT SET UOW. The message should not recur.

Module: DFHCRRSY

XMEOUT Parameters: *date, time,applid, sysid, netname, protocol, local_logname, remote_logname*

Destination: Console and Transient Data Queue CSMT

DFHRS2114 *date time applid* **Abnormal termination of exchange log names sequence received from system** *sysid***, netname** *netname***, protocol** *protocol***.**

Explanation: This message is issued when an FMH7 has been received in response to an exchange log name reply. An exchange log names sequence is sent either following a session failure or at first session initiation after system restart. The remote system started the sequence, and the FMH7 reply indicates that the remote system failed to interpret the exchange log name reply data sent to it.

System action: For APPC protocol, any synclevel 2 attaches are inhibited. This means that recoverable activity between the two systems is prevented.

For IRC protocol, the message indicates that resynchronization was attempted and failed. Communication continues.

User response: Investigate the cause of the error using the system dump. Format the control blocks for the trace domain and the terminal control program. (For guidance on how to do this, see the *CICS Problem Determination Guide*.)

Determine from the message which session was being used for this exchange log names conversation.

The APPC send and receive buffers for a session are clearly labelled in the dump and are printed below the TCTTE for the session to which they belong. For IRC, the TIOA contains the equivalent data. Check the data against the format of the exchange log names reply GDS variable. The correct format of this SNA defined field can be found in the *SNA Formats* manual.

Examine the log of the remote system. If a protocol violation was detected, the remote system may have generated diagnostic information itself which may help to diagnose the cause.

Module: DFHCRRSY

XMEOUT Parameters: *date, time,applid, sysid, netname, protocol*

Destination: Console and Transient Data Queue CSMT

DFHRS2115 *date time applid protocol* **protocol support mismatch with system** *sysid***, netname** *netname***. Expected support byte** *X'ww'***, received support byte** *X'xx'***, expected extended support bytes** *X'yyyy'***, received extended support bytes** *X'zzzz'***.**

Explanation: This system's memory of the protocols previously negotiated with the remote system conflicts with the indicators sent in an exchange log names variable.

System action: For APPC protocol, any synclevel 2 attaches are inhibited. This means that recoverable activity between the two systems is prevented.

For IRC protocols, resynchronization fails. Communications continue normally.

User response: For APPC protocols, the indicators expected from a CICS Transaction Server system are: basic support, X'70'; extended support, X'C000'. For CICS/ESA 4.1 the expected indicators are basic support, X'40'; extended support, X'0000'. If this

combination of the four indicator fields appears in the message, first check that you have Initial started the partner system at the CICS Transaction Server level during a migration from CICS/ESA 4.1, or Cold started a CICS/ESA 4.1 system after running CICS Transaction Server. If this possibility can be ruled out, the message may indicate a logic error in CICS or in the remote system and you may need assistance from IBM to prevent a recurrence. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

You can override the error situation by issuing CEMT SET CONN(*sysid*) NORECOVDATA commands for the failing connection. It may be necessary to issue this command (or its equivalent) on both sides of the connection. resources which may be waiting for APPC resynchronization. In addition CICS does not carry out any APPC resynchronization activity with the remote system.

For IRC protocols, you may need to use the CEMT SET UOW command to resolve the state of any units or work which cannot be resolved by the normal resynchronization process.

Module: DFHCRRSY

XMEOUT Parameters: *date, time, applid, protocol, sysid, netname, X'ww', X'xx', X'yyyy', X'zzzz'*

Destination: Console and Transient Data Queue CSMT

DFHRS2116 *date time applid* **Abnormal termination of exchange log names sequence received from system** *sysid*, **netname** *netname*, **protocol** *protocol*. **The connection was in a cold state.**

Explanation: An FMH7 has been received in response to an exchange log names reply. An exchange log names sequence is sent either following a session failure or at first session initiation after system startup. This system was either started with the SIT parameter START=INITIAL or CEMT SET CONN(*sysid*) NORECOVDATA has been issued, both of which reset the state of the connection. This means that no log name is stored for the remote system.

For APPC protocols, the FMH7 reply may indicate one of two causes

- The remote system has resynchronization work outstanding following a previous failure of a conversation during sync point processing and has detected a cold/warm mismatch.
- The remote system failed to interpret the exchange log names reply data sent to it.

For IRC protocol, the problem is caused by the failure of the remote system to interpret the exchange log names reply data.

System action: For APPC protocol, any synclevel 2 attaches are inhibited. This means that recoverable activity between the two systems is prevented.

For IRC protocol, the message indicates that resynchronization was attempted and failed. Communication continues.

User response: The most likely cause of the message is an initial start (as opposed to emergency restart or its equivalent) of this system when the other has resynchronization work outstanding. This can be confirmed by examining the message log of the remote system.

For APPC protocol, the connection on the remote system may need to be reset by issuing the CEMT SET CONN(sysid) NOTPENDING command against the connection entry for this system. resources which may be waiting for APPC resynchronization.

For IRC protocol, a protocol violation or logic error is the only possible cause.

If a cold/warm mismatch is eliminated as the cause of the error, you will need assistance from IBM. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHCRRSY

XMEOUT Parameters: *date, time,applid, sysid, netname, protocol*

Destination: Console and Transient Data Queue CSMT

DFHRS2117 *date time applid* **Abnormal reply to exchange log names received from system** *sysid*, **netname** *netname*, **protocol** *protocol*. **The connection on this system was in a cold state.**

Explanation: This message is issued when an abnormal reply has been received in response to an exchange log name request. An exchange log names sequence is sent either following a session failure or at first session initiation after system startup. This system was either started with the SIT parameter START=INITIAL, or CEMT SET CONN(*sysid*) NORECOVDATA has been issued, and no log name is stored for the remote system. The abnormal reply may indicate one of two causes in the case of APPC protocol.

- The remote system has resynchronization work outstanding following a previous failure of a conversation during sync point processing and has detected a cold/warm mismatch.
- The remote system failed to interpret the exchange log name data sent to it.

For IRC protocol, the problem is caused by the failure of the remote system to interpret the exchange log name data.

System action: For APPC protocol, any synclevel 2

attaches are inhibited. This means that recoverable activity between the two systems is prevented.

For IRC protocol, the message indicates that resynchronization was attempted and failed. Communication continues.

User response: The most likely cause of the message is an initial start (as opposed to emergency restart or its equivalent) of this system when the other has resynchronization work outstanding. This can be confirmed by examining the message log of the remote system.

For APPC protocol, the connection on the remote system may need to be reset by issuing the CEMT SET CONN(sysid) NOTPENDING command against the connection entry for this system. resources waiting for APPC resynchronization.

For IRC protocol, a protocol violation or logic error is the only possible cause.

If a cold/warm mismatch is eliminated as the cause of the error, you need further assistance from IBM. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHCRRSY

XMEOUT Parameters: *date, time, applid, sysid, netname, protocol*

Destination: Console and Transient Data Queue CSMT

DFHRS2118 *date time applid* **Abnormal termination of exchange log names sequence received from system** *sysid*, **netname** *netname*, **protocol** *protocol*. **There has been previous contact with that system.**

Explanation: This message is issued when an FMH7 has been received in response to an exchange log name reply.

An exchange log names sequence is sent either following a session failure or at first session initiation after system startup. Both systems have records of previous contact and have log names stored which were being verified by the exchange log names protocol, which was initiated by the remote system.

The FMH7 may indicate one of two causes

- The remote system has detected a mismatch in the log names or protocol support indicated in the exchange log name reply sent to it.
- The remote system failed to interpret the exchange log name reply data sent to it.

System action: A system dump is taken unless you have specifically suppressed dumps in the dump table.

Message DFHME0116 should be produced containing the symptom string for this problem.

For LU6.2 protocol, any synclevel 2 attaches are inhibited. This means that recoverable activity between the two systems is prevented.

For IRC protocol, the message indicates that resynchronization was attempted and failed. Communication continues.

User response: For APPC protocol, the connection may need to be reset by issuing the CEMT SET CONN(*sysid*) NORECOVDATA command for the failing connection It may be necessary to issue this command (or its equivalent) on both sides of the connection. resources which may be waiting for APPC resynchronization. In addition, CICS does not carry out any APPC resynchronization activity with the remote system.

The cause of the error may be indicated by diagnostic information produced by the remote system. The system dump taken by local system can be used to investigate the possibility of an error in the exchange log names reply GDS.

Format the control blocks for the trace domain and the terminal control program. (For guidance on how to do this, see the *CICS Problem Determination Guide*.)

Determine from the message which session was being used for this exchange log names conversation.

The APPC send and receive buffers for a session are clearly labelled in the dump and are printed below the TCTTE for the session to which they belong. For IRC, the TIOA contains the equivalent data. Check that the data against the format of the exchange log names reply GDS variable. The correct format of this SNA defined field can be found in the *SNA Formats* manual.

Module: DFHCRRSY

XMEOUT Parameters: *date, time,applid, sysid, netname, protocol*

Destination: Console and Transient Data Queue CSMT

DFHRS2134 *date time applid* **An error has occurred while sending an exchange log names request on session** *sessid* **to remote system** *sysid*, **netname** *netname*, **protocol** *protocol*.

Explanation: An error has occurred during the transmission of an exchange log names request to a remote system. CICS was attempting to establish the connection on first contact with the partner, or to resynchronize distributed resources following an earlier failure of a protected conversation during sync point processing.

This message implies a failure of the session used to carry the transmission.

System action: A system dump is taken unless you have specifically suppressed dumps in the dump table.

Message DFHME0116 should be produced containing the symptom string for this problem.

In many cases CICS continues to operate normally, and the resynchronization or connection establishment is retried in an attempt to overcome the session failure. However for APPC protocol, a repeated failure may have resulted in exchange log names flows being unsuccessful preventing any synclevel 2 attaches between the local system and the remote system.

For IRC protocol, resynchronization has failed but the connection continues to operate normally.

User response: Issue CEMT INQUIRE CONN(*sysid*) and look at the XOK field. If exchange log names has not been done, the exchange log names process can be retried by issuing the CEMT SET CONN(*sysid*) RESYNC command.

Investigate the cause of the error using the system dump and any previously output diagnostic information provided by CICS, the access methods, or the operating system, and examine the log of the remote system. If a protocol violation was detected, the remote system may have generated diagnostic information itself.

Format the system dump to show the control blocks belonging to the trace domain. (For guidance on how to do this, see the *CICS Problem Determination Guide*.)

Determine from the message which session was being used for this exchange log names conversation.

If the internal trace table is available, use it to track the commands issued against that session and check that the state transitions of the User state machine are correct. If any of the state transitions are not valid, it is possible that there has been a CICS logic error.

Module: DFHCRRSY

XMEOUT Parameters: *date, time,applid, sessid, sysid, netname, protocol*

Destination: Console and Transient Data Queue CSMT

DFHRS2135 *date time applid* **An error has occurred while sending a compare states request on session** *sessid* **to remote system** *sysid*, **netname** *netname*, **protocol** *protocol*.

Explanation: An error has occurred during the transmission of a compare states request to a remote system. CICS was attempting to resynchronize distributed resources following an earlier failure of a protected conversation during sync point processing.

This implies one of the following

- The remote system has detected a protocol violation in the local system's exchange log names GDS variable.
- Some other error in communications has occurred.

System action: For APPC protocol connections (but not IRC protocol), the failure may have prevented the completion of the exchange log names protocol and this prevents any synclevel 2 attaches between the local system and the remote system.

A system dump is taken unless you have specifically suppressed dumps in the dump table.

Message DFHME0116 should be produced containing the symptom string for this problem.

User response: For APPC protocol, investigate the state of the connection. Issue CEMT INQUIRE CONN(*sysid*) and look at the XOK field. If exchange log names has not been done, the exchange log names process can be retried by issuing the CEMT SET CONN(*sysid*) RESYNC command. If there has been previous successful contact between the systems the connection can be reset to its original state and retried. The state can be reset by issuing CEMT SET CONN(*sysid*) NORECOVDATA. It may be necessary to issue this command on both sides of the connection. resources which may be waiting for APPC resynchronization. In addition, CICS does not carry out any APPC resynchronization activity with the remote system.

The cause of the error may be indicated by diagnostic information produced by the remote system. Use the system dump taken by the local system to investigate the possibility of an error in the GDS variables.

Format the control blocks for the trace domain and the terminal control program. (For guidance on how to do this, see the *CICS Problem Determination Guide*.)

Determine from the message which session was being used for this exchange log names conversation.

The APPC send and receive buffers for a session are clearly labelled in the dump and are printed below the TCTTE for the session to which they belong. For IRC, the TIOA contains the equivalent data. Check that the data against the format of the exchange log names and compare states GDS variables. The correct format of this SNA defined field can be found in the *SNA Formats* manual.

Module: DFHCRRSY

XMEOUT Parameters: *date, time,applid, sessid, sysid, netname, protocol*

Destination: Console and Transient Data Queue CSMT

DFHRS2136 *date time applid* **An error has occurred while receiving an exchange log names reply on session** *sessid* **from remote system** *sysid*, **netname** *netname*, **protocol** *protocol*.

Explanation: An error has occurred during an attempt to receive exchange log names reply data from a remote system. CICS was attempting to initialize the

connection, or to resynchronize distributed resources following an earlier failure of a protected conversation during sync point processing.

The message means that

- The remote system has detected a protocol violation in the local system's exchange log names GDS variable or compare states GDS variable and sent an FMH7 to indicate the error.
- Some other error in communication has occurred in either the local or the remote system.

System action: For APPC protocol the failure of exchange log names may mean that any synclevel 2 attaches are inhibited. This means that recoverable activity between the two systems is prevented.

For IRC protocol, the message indicates that resynchronization was attempted and failed. Communication continues.

A system dump is taken unless you have specifically suppressed dumps in the dump table.

Message DFHME0116 should be produced containing the symptom string for this problem.

User response: For APPC protocol, investigate the state of the connection. Issue CEMT INQUIRE CONN(*sysid*) and look at the XOK field. If exchange log names has not been done, the exchange log names process can be retried by issuing the CEMT SET CONN(*sysid*) RESYNC command. If there has been previous successful contact between the systems the connection may be reset to its original state and retried. The state can be reset by issuing CEMT SET CONN(*sysid*) NORECOVDATA. It may be necessary to issue this command (or its equivalent) on both sides of the connection. resources which may be waiting for APPC resynchronization. In addition CICS does not carry out any APPC resynchronization activity with the remote system.

The cause of the error may be indicated by diagnostic information produced by the remote system. Use the system dump taken by the local system to investigate the possibility of an error in the GDS variables.

Format the control blocks for the trace domain and the terminal control program. (For guidance on how to do this, see the *CICS Problem Determination Guide*.)

Determine from the message which session was being used for this exchange log names conversation.

The APPC send and receive buffers for a session are clearly labelled in the dump and are printed below the TCTTE for the session to which they belong. For IRC, the TIOA contains the equivalent data. Check the data against the format of the exchange log names and compare states GDS variables. The correct format of this SNA defined field can be found in the *SNA Formats* manual.

Module: DFHCRRSY

XMEOUT Parameters: *date, time,applid, sessid, sysid, netname, protocol*

Destination: Console and Transient Data Queue CSMT

DFHRS2137 *date time applid* **An error has occurred while receiving a compare states reply on session** *sessid* **from remote system** *sysid***, netname** *netname***, protocol** *protocol***.**

Explanation: An error has occurred during the receipt of a compare states reply from a remote system. CICS was attempting to resynchronize distributed resources following an earlier failure of a protected conversation during sync point processing.

This implies one of the following

- The remote system has detected a protocol violation in the local system's compare states GDS variable.
- There has been an internal error in CICS APPC processing.

System action: A system dump is taken unless you have specifically suppressed dumps in the dump table.

Message DFHME0116 should be produced containing the symptom string for this problem.

CICS continues to operate normally and the resynchronization attempt is retried at the next opportunity.

User response: Investigate the cause of the error first by examining the log of the remote system which may have produced diagnostic information about the data it received. The problem can be investigated locally using the system dump and any previously output diagnostic information provided by CICS, the access methods, or the operating system.

Format the system dump to show the control blocks belonging to the trace domain and the terminal control program. (For guidance on how to do this, see the *CICS Problem Determination Guide*.)

Determine from the message which session was being used for this resynchronization conversation.

If the internal trace table is available, use this to track the commands issued against that session and check that the state transitions of the user state machine are correct. If any of the state transitions are not valid, it is possible that there has been a CICS logic error.

The APPC send and receive buffers for a session are clearly labelled in the dump and are printed below the TCTTE for the session to which they belong. Similar information is contained in the TIOA for IRC sessions. Locate the data for the session in question, and check that the contents of the buffer are correct. The buffer contains the compare states GDS variable. The correct format of this SNA defined data can be found in the *SNA Formats* manual.

Module: DFHCRRSY

XMEOUT Parameters: *date, time,applid, sessid, sysid, netname, protocol*

Destination: Console and Transient Data Queue CSMT

DFHRS2138 *date time applid* **Invalid exchange log names reply data has been received on session** *sessid* **from remote system** *sysid*, **netname** *netname*, **protocol** *protocol*.

Explanation: The local system has received data which it attempted to parse using the exchange log names reply GDS format. Either the data could not be parsed, or invalid data was detected.

This system was attempting to initialize the connection for synclevel 2 work, or to resynchronize distributed resources following an earlier failure of a protected conversation during sync point processing. Exchange log names was sent and an invalid reply received.

This failure implies an error in the remote system or a CICS logic error.

System action: If resynchronization was being attempted it has failed and is retried at the next opportunity.

For APPC protocol connections (but not IRC protocol) the failure prevents the completion of the exchange log names protocol and this may prevent any synclevel 2 attaches between the local system and the remote system.

A system dump is taken unless you have specifically suppressed dumps in the dump table.

Message DFHME0116 should be produced containing the symptom string for this problem.

User response: For APPC protocol, investigate the state of the connection. Issue CEMT INQUIRE CONN(*sysid*) and look at the XOK field. If exchange log names has not been done, the exchange log names process can be retried by issuing the CEMT SET CONN(*sysid*) RESYNC command. If there has been previous successful contact between the systems the connection may be reset to its original state and retried. The state can be reset by issuing CEMT SET CONN(*sysid*) NORECOVDATA. It may be necessary to issue this command (or its equivalent) on both sides of the connection. resources which may be waiting for APPC resynchronization. In addition, CICS does not carry out any APPC resynchronization activity with the remote system.

Investigate the cause of the error using the system dump and any previously output diagnostic information provided by CICS, the access methods, or the operating system.

Format the system dump to show the control blocks belonging to the trace domain. (For guidance on how to do this, see the *CICS Problem Determination Guide*.)

An exception trace entry contains the received data, and the reason for the failure is interpreted. Check the format of the exchange log names reply GDS variable. The correct format of this SNA defined field can be found in the *SNA Formats* manual.

Module: DFHCRRSY

XMEOUT Parameters: *date, time,applid, sessid, sysid, netname, protocol*

Destination: Console and Transient Data Queue CSMT

DFHRS2139 *date time applid* **Invalid compare states reply data has been received on session** *sessid* **from remote system** *sysid*, **netname** *netname*, **protocol** *protocol*.

Explanation: The local system has received data which it attempted to parse using the compare states reply GDS format. Either the data could not be parsed or invalid data was detected.

The local system was attempting to resynchronize distributed resources following an earlier failure of a protected conversation during sync point processing. Data from the remote system received in reply to the compare states was invalid.

This failure implies an error in the remote system or a CICS logic error.

System action: A system dump is taken, unless you have specifically suppressed dumps in the dump table.

Message DFHME0116 should be produced containing the symptom string for this problem.

The failure prevents the completion of the resynchronization of distributed resources.

User response: Investigate any units of work for which resynchronization is outstanding using the CEMT INQUIRE UOWLINK SYSID(*sysid*) command. Use the same command on the remote system to determine whether to commit or backout the unit of work. Alternatively, for APPC connections, resynchronization can be overridden by issuing the CEMT SET CONN(*sysid*) NORECOVDATA command for the failing connection. It may be necessary to issue this command (or its equivalent) on both sides of the connection. resources which may be waiting for resynchronization. Also, CICS does not carry out any resynchronization activity with the remote system.

Investigate the cause of the error using the system dump. Format the system dump to show the control blocks belonging to the trace domain. (For guidance on how to do this, see the *CICS Problem Determination Guide*.)

An exception trace entry contains the received data, and the reason for the failure is interpreted. Check the

format of the compare states reply GDS variable. The correct format of this SNA defined field can be found in the *SNA Formats* manual.

Module: DFHCRRSY

XMEOUT Parameters: *date, time,applid, sessid, sysid, netname, protocol*

Destination: Console and Transient Data Queue CSMT

DFHRS2140 *date time applid* **A protocol violation has occurred while resynchronizing with remote system** *sysid*, **netname** *netname*, **protocol** *protocol*, **via session** *sessid*. **The resynchronization was initiated by the local system.**

Explanation: The local system has detected a protocol violation while resynchronizing with the remote system. CICS was attempting to resynchronize distributed resources following an earlier failure of a protected conversation during sync point processing. The resynchronization was initiated by the local system.

This implies one of the following

- An error was detected by the remote system and the resynchronization sequence was abnormally terminated.
- A logic error exists in the remote system which caused it to send invalid data.
- A CICS logic error.

System action: CICS continues to operate normally and the resynchronization attempt is retried at the next opportunity.

A system dump is taken unless you have specifically suppressed dumps in the dump table.

Message DFHME0116 should be produced containing the symptom string for this problem.

User response: Diagnostics may have been output by the local CICS system, the access methods, or the operating system. Also, investigate the cause of the error in the remote system. It may have produced diagnostic messages indicating why the resynchronization sequence was terminated.

The resynchronization sequence can be analyzed locally by formatting the system dump to show the control blocks belonging to the trace domain. (For guidance on how to do this, see the *CICS Problem Determination Guide*.)

Determine from the message which session was being used for this resynchronization conversation.

The trace entries for the DFHCRRSY program show the state of the conversation which was being used and the data received. At the point of failure a confirmation was expected from the remote system as the final flow in the sequence but was not received.

Compare the resynchronization flows with those documented in the *SNA LU6.2 Reference: Peer Protocols* manual, (SC30-6808). A possible cause of this error is that the remote system did not observe the correct protocols. Investigation at the remote system may be necessary.

Module: DFHCRRSY

XMEOUT Parameters: *date, time,applid, sysid, netname, protocol, sessid*

Destination: Console and Transient Data Queue CSMT

DFHRS2141 *date time applid* **A protocol violation has occurred while resynchronizing with remote system** *sysid*, **netname** *netname*, **protocol** *protocol*, **via session** *sessid*. **The resynchronization was initiated by the remote system.**

Explanation: The local system has detected a protocol violation while resynchronizing with the remote system. CICS was attempting to resynchronize distributed resources following an earlier failure of a protected conversation during sync point processing. The resynchronization was initiated by the remote system.

This implies one of the following

- An error was detected by the remote system and the resynchronization sequence was abnormally terminated.
- A logic error exists in the remote system which caused it to send invalid data.
- A CICS logic error.

System action: CICS continues to operate normally and the resynchronization attempt is retried at the next opportunity.

A system dump is taken unless you have specifically suppressed dumps in the dump table.

Message DFHME0116 should be produced containing the symptom string for this problem.

User response: See any diagnostics output by the local CICS system, the access methods, or the operating system. Also, investigate the cause of the error in the remote system; it may have produced diagnostic messages indicating why the resynchronization sequence was terminated.

The resynchronization sequence can be analyzed locally by formatting the system dump to show the control blocks belonging to the trace domain. (For guidance on how to do this, see the *CICS Problem Determination Guide*.)

Determine from the message which session was being used for this resynchronization conversation.

The trace entries for the DFHCRRSY program show the state of the conversation which was being used and the data received. At the point of failure a request confirmation message was expected from the remote system as the third flow in the sequence but was not received.

Compare the resynchronization flows with those documented in the *SNA LU6.2 Reference: Peer Protocols* manual, (SC30-6808). A possible cause of this error is that the remote system did not observe the correct protocols; investigation at the remote system may be necessary.

Module: DFHCRRSY

XMEOUT Parameters: *date, time,applid, sysid, netname, protocol, sessid*

Destination: Console and Transient Data Queue CSMT

DFHRS2142 *date time applid* **Compare states request data could not be received on session** *sessid* **from remote system** *sysid***, netname** *netname***, protocol** *protocol***.**

Explanation: The local system has received an exchange log names request from the remote system but failed while attempting to receive subsequent data which was assumed to be a compare states GDS variable. The remote system was probably attempting to resynchronize distributed resources following an earlier failure of a protected conversation during sync point processing.

This implies one of the following
- An error in the remote system
- A session failure during the resynchronization
- A CICS logic error.

System action: A system dump is taken unless you have specifically suppressed dumps in the dump table.

Message DFHME0116 should be produced containing the symptom string for this problem.

The resynchronization attempt should be retried at the next opportunity by the remote system. However, for APPC protocol connections, the failure may have resulted in exchange log names flows being unsuccessful and this prevents any synclevel 2 attaches between the local system and the remote system.

User response: Issue CEMT INQUIRE CONN(*sysid*) and look at the XOK field. If exchange log names has not been done, the error situation may be correctable by issuing CEMT SET CONN(*sysid*) RESYNC. If this fails to cure the problem, resynchronization can be canceled for an APPC connection by issuing the CEMT SET CONN(*sysid*) NORECOVDATA command for the failing connection. It may be necessary to issue this command (or its equivalent) on both sides of the connection. resources which may be waiting for resynchronization. In addition, CICS does not carry out any resynchronization activity with the remote system.

Investigate the cause of the error using the system dump and any previously output diagnostic information provided by CICS, the access methods, or the operating system.

Format the system dump to show the control blocks belonging to the trace domain. (For guidance on how to do this, see the *CICS Problem Determination Guide*.)

Locate the exception trace entries for the DFHCRRSY program and examine any data sent by the remote system. Also examine the state of the conversation at the point of failure. It should have been in receive state.

A possible cause is that the remote system did not send valid data or failed to follow the protocol for compare states. Compare the resynchronization flows with those documented in the *SNA LU6.2 Reference: Peer Protocols* manual, (SC30-6808). Investigation at the remote system may be necessary.

Module: DFHCRRSY

XMEOUT Parameters: *date, time,applid, sessid, sysid, netname, protocol*

Destination: Console and Transient Data Queue CSMT

DFHRS2143 *date time applid* **Do_know confirmation was not received on session** *sessid* **from remote system** *sysid***, netname** *netname***, protocol** *protocol***.**

Explanation: The local system sent a Do_know GDS variable to the remote system but did not receive a valid reply. This indicates an earlier failure of a protected conversation during sync point processing and the resolution of the unit of work. This system was using the Do_know GDS variable to cause resynchronization to be started by the remote system.

This implies an error in the remote system or a CICS logic error.

System action: The resynchronization attempt should be retried at the next opportunity by the remote system.

A system dump is taken unless you have specifically suppressed dumps in the dump table.

Message DFHME0116 should be produced containing the symptom string for this problem.

User response: Issue CEMT SET CONN(*sysid*) RESYNC to cause resynchronization to be retried.

Investigate the cause of the error using the system dump and any previously output diagnostic information provided by CICS, the access methods or the operating system.

Format the system dump to show the control blocks belonging to the trace domain. (For guidance on how

to do this, see the *CICS Problem Determination Guide*.)

Locate the exception trace entries for the DFHCRRSY program and examine any data sent by the remote system. Also examine the state of the conversation at the point of failure.

A possible cause is that the remote system did not send valid data, or failed to follow the protocol for Do_Know in which case it may be necessary to obtain further diagnostic material from the remote system.

Module: DFHCRRSY

XMEOUT Parameters: *date, time,applid, sessid, sysid, netname, protocol*

Destination: Console and Transient Data Queue CSMT

DFHRS2144 *date time applid* **System_restart confirmation was not received on session** *sessid* **from remote system** *sysid*, **netname** *netname*, **protocol** *protocol*.

Explanation: The local system sent a System_restart GDS variable to the remote system but did not receive a valid reply. This indicates that the local system has restarted and not previously contacted the remote system as part of the initiation of resynchronization protocols.

This indicates an error in the remote system or a CICS logic error.

System action: The transmission of the message is retried the next time the connection is initialized.

A system dump is taken unless you have specifically suppressed dumps in the dump table.

Message DFHME0116 should be produced containing the symptom string for this problem.

User response: Issue CEMT SET CONN(*sysid*) RESYNC to cause transmission to be retried.

Investigate the cause of the error using the system dump and any diagnostic information provided by CICS, the access methods, or the operating system.

Format the system dump to show the control blocks belonging to the trace domain. (For guidance on how to do this, see the *CICS Problem Determination Guide*.)

Locate the exception trace entries for the DFHCRRSY program and examine any data sent by the remote system. Also examine the state of the conversation at the point of failure.

A possible cause is that the remote system did not send valid data or failed to follow the protocol for the System_restart message. In this case it may be necessary to obtain further diagnostic material from the remote system.

Module: DFHCRRSY

XMEOUT Parameters: *date, time,applid, sessid, sysid, netname, protocol*

Destination: Console and Transient Data Queue CSMT

DFHRS2145 *date time applid* **Invalid exchange log names data has been received on session** *sessid* **from remote system** *sysid*, **netname** *netname*, **protocol** *protocol*.

Explanation: The local system has received data which it attempted to parse using the exchange log names GDS format. Either the data could not be parsed or invalid data was detected.

The remote system was attempting to initialize the connection for synclevel 2 work or to resynchronize distributed resources following an earlier failure of a protected conversation during sync point processing. Exchange log names is sent in both of these cases.

This failure indicates either an error in the remote system or a CICS logic error.

System action: A system dump is taken unless you have specifically suppressed dumps in the dump table.

Message DFHME0116 should be produced containing the symptom string for this problem.

If resynchronization was being attempted, it has failed and is retried at the next opportunity.

For APPC protocol connections (but not IRC protocol), the failure prevents the completion of the exchange log names protocol. This prevents any synclevel 2 attaches between the local system and the remote system.

User response: For APPC protocol connections, issue CEMT INQUIRE CONN(*sysid*) and look at the XOK field. If exchange log names has not been done but there has been previous contact between the systems, the error can be overridden by resetting the state of the connection. To do this, issue CEMT SET CONN(*sysid*) NORECOVDATA commands for the failing connection. It may be necessary to issue this command (or its equivalent) on both sides of the connection. resources waiting for APPC resynchronization. Also CICS does not carry out any APPC resynchronization activity with the remote system.

Investigate the cause of the error using the system dump and any previously output diagnostic information provided by CICS, the access methods, or the operating system.

Format the system dump to show the control blocks belonging to the trace domain. (For guidance on how to do this, see the *CICS Problem Determination Guide*.)

An exception trace entry contains the received data, and the reason for the failure is interpreted. Check the format of the exchange log names GDS variable. The correct format of this SNA defined field can be found in the *SNA Formats* manual.

The format of the GDS variable is incorrect and the cause of the error should be located. A likely cause is that the remote system did not send a valid GDS variable in which case it may be necessary to obtain further diagnostic material from the remote system.

Module: DFHCRRSY

XMEOUT Parameters: *date, time,applid, sessid, sysid, netname, protocol*

Destination: Console and Transient Data Queue CSMT

DFHRS2146 *date time applid* **Invalid compare states data has been received on session** *sessid* **from remote system** *sysid*, **netname** *netname*, **protocol** *protocol*.

Explanation: The local system has received data which it attempted to parse using the compare states GDS format. Either the data could not be parsed or invalid data was detected.

The remote system was attempting to resynchronize distributed resources following an earlier failure of a protected conversation during sync point processing.

This failure indicates either an error in the remote system or a CICS logic error.

System action: A system dump is taken unless you have specifically suppressed dumps in the dump table.

Message DFHME0116 should be produced containing the symptom string for this problem.

The failure prevents the completion of the resynchronization of distributed resources.

User response: Investigate any units of work for which resynchronization is outstanding using the command CEMT INQUIRE UOWLINK SYSID(*sysid*). Use the same command on the remote system to determine whether to commit or backout the unit of work. Alternatively, resynchronization can be overridden by issuing the CEMT SET CONN(*sysid*) NORECOVDATA command for the failing connection. It may be necessary to issue this command (or its equivalent) on both sides of the connection. resources which may be waiting for resynchronization. In addition CICS does not carry out any resynchronization activity with the remote system.

Investigate the cause of the error using the system dump and any diagnostic information provided by CICS, the access methods, or the operating system.

Format the system dump to show the control blocks belonging to the trace domain. (For guidance on how to do this, see the *CICS Problem Determination Guide*.)

An exception trace entry contains the received data, and the reason for the failure is interpreted. Check the format of the compare states GDS variable. The correct format of this SNA defined field can be found in the *SNA Formats* manual.

The format of the GDS variable is incorrect and the cause of the error should be located. A possible cause is that the remote system did not send a valid GDS variable, in which case it may be necessary to obtain further diagnostic material from the remote system.

Module: DFHCRRSY

XMEOUT Parameters: *date, time,applid, sessid, sysid, netname, protocol*

Destination: Console and Transient Data Queue CSMT

DFHRS2147 *date time applid* **Unrecognized data was received following transmission of an exchange log names reply on session** *sessid* **to remote system** *sysid*, **netname** *netname*, **protocol** *protocol*.

Explanation: An exchange log names request was received from another system and a reply was sent. More data was expected from the other system but this was not recognized as part of the exchange log names protocol.

This implies one of the following

- The remote system has detected a protocol violation in the local system's exchange log names reply GDS variable.
- There has been an internal error in CICS processing.

System action: A system dump is taken unless you have specifically suppressed dumps in the dump table.

Message DFHME0116 should be produced containing the symptom string for this problem.

For APPC protocol, the failure may have resulted in no exchange log name flows being successful preventing any synclevel 2 attaches between the local system and the remote system.

For IRC protocol, resynchronization may fail but communications links remain active.

User response: For links using APPC protocol, issue CEMT INQUIRE CONN(*sysid*) and look at the XOK field. If exchange log names has not been done, the error situation can be overridden by issuing the CEMT SET CONN(*sysid*) NORECOVDATA command for the failing connection. It may be necessary to issue this command (or its equivalent) on both sides of the connection. resources which may be waiting for APPC resynchronization. In addition, CICS does not carry out any APPC resynchronization activity with the remote system.

Investigate the cause of the error using the system dump and any diagnostic information provided by CICS, the access methods, or the operating system. The remote system may also have created diagnostic

messages if it detected an error in the data it received.

The data sent by the local system can be investigated by formatting the system dump to show the control blocks belonging to the trace domain and the terminal control program. (For guidance on how to do this, see the *CICS Problem Determination Guide*.)

Determine from the message which session was being used for this exchange log names conversation.

If the internal trace table is available, use it to track the commands issued against that session and check that the state transitions of the user state machine are correct. If any of the state transitions are not valid, it is possible that there has been a CICS logic error.

The APPC send and receive buffers for a session are clearly labelled in the dump and are printed below the TCTTE for the session to which they belong. The TIOA contains similar information for IRC. Locate the send/receive buffer for the session in question and check that the contents of the buffer are correct. The buffer should contain a valid exchange log names GDS reply variable. The correct format of this SNA defined field can be found in the *SNA Formats* manual.

Module: DFHCRRSY

XMEOUT Parameters: *date, time,applid, sessid, sysid, netname, protocol*

Destination: Console and Transient Data Queue CSMT

DFHRS2148 *date time applid* **Resynchronization with system** *sysid***, netname** *netname***, protocol** *protocol* **was attempted but was terminated because no partner log name was found.**

Explanation: CICS has initiated a resynchronization sequence following the failure of a protected conversation during syncpoint processing. No valid log name was found for the partner system. The resynchronization could not continue.

This message indicates that a CEMT SET CONNECTION NORECOVDATA command was issued before the resynchronization with the partner system could be completed. The UOW and UOWLINK describing the outstanding work have also been deleted.

System action: None

User response: None. This message is issued for information only.

Module: DFHCRRSY

XMEOUT Parameters: *date, time,applid, sysid, netname, protocol*

Destination: CSMT

DFHRS2149 *date time applid* **Resynchronization/ Exchange log names with system** *netname* **(protocol** *protocol***) could not be executed because no suitable connection entry was found.**

Explanation: CICS has initiated a resynchronization sequence following the failure of a protected conversation during syncpoint processing. Data exists describing the conversation but no suitable connection definition was found for the partner system. The resynchronization could not continue because communications could not be established.

System action: Processing continues.

User response: The condition may be due to the discarding of the connection definition or to a cold start which has caused a connection definition to be deleted by CICS; the definition may have been autoinstalled. An autoinstalled definition may be reinstalled by subsequent activity in the system. Alternatively, a suitable definition can be installed manually using CEDA.

Module: DFHCRRSY

XMEOUT Parameters: *date, time,applid, netname, protocol*

Destination: CSMT

DFHRS2150 *date time applid* **Invalid data has been received during the resynchronization sequence on session** *sessid* **from remote system** *sysid***, netname** *netname***, protocol** *protocol***.**

Explanation: The local system has received data which it attempted to parse as one of the following types of SNA GDS data

Exchange log names
Do_know
System_restart

The data could not be recognized.

The remote system was attempting to initialize the connection for synclevel 2 work, or to resynchronize distributed resources following an earlier failure of a protected conversation during sync point processing.

This failure implies one of the following

- An error was detected by the remote system and it sent an error indication in an FMH7.
- An error has occurred in the remote system.
- A CICS logic error has occurred.

System action: A system dump is taken unless you have specifically suppressed dumps in the dump table.

Message DFHME0116 should be produced containing the symptom string for this problem.

If resynchronization was being attempted, it has failed

and is retried at the next opportunity.

For APPC protocol connections (but not IRC protocol), the failure prevents the completion of the exchange log names protocol and this prevents any synclevel 2 attaches between the local system and the remote system.

User response: For APPC protocol connections, issue CEMT INQUIRE CONN(*sysid*), and examine the XOK field. If exchange log names has not been done but there has been previous contact between the systems, the error can be overridden by resetting the state of the connection. To do this, issue the CEMT SET CONN(*sysid*) NORECOVDATA command for the failing connection. It may be necessary to issue this command (or its equivalent) on both sides of the connection. resources which may be waiting for APPC resynchronization. In addition, CICS does not carry out any APPC resynchronization activity with the remote system.

Investigate the cause of the error using the system dump and any diagnostic information provided by CICS, the access methods, or the operating system.

Format the system dump to show the control blocks belonging to the trace domain. (For guidance on this, see the *CICS Problem Determination Guide*.)

An trace entry contains the received data. Check the format of this data. The correct format of the SNA defined field can be found in the *SNA Formats* manual.

A possible cause is that the remote system did not send a valid GDS variable. In this case, it may be necessary to obtain further diagnostic material from the remote system.

Module: DFHCRRSY

XMEOUT Parameters: *date, time,applid, sessid, sysid, netname, protocol*

Destination: Console and Transient Data Queue CSMT

DFHRS2151 *date time applid* **Invalid data has been received during the resynchronization sequence on session** *sessid* **from remote system** *sysid***, netname** *netname***, protocol** *protocol***.**

Explanation: The local system was attempting to receive data as part of a resynchronization sequence but the conversation was in the wrong state or an error FMH was received.

The remote system was attempting to initialize the connection for synclevel 2 work or to resynchronize distributed resources following an earlier failure of a protected conversation during sync point processing.

The failure implies one of the following

- An error was detected by the remote system and it sent an error indication in an FMH7.
- An error occurred in the remote system
- A CICS logic error has occurred.

System action: A system dump is taken unless you have specifically suppressed dumps in the dump table.

Message DFHME0116 should be produced containing the symptom string for this problem.

If resynchronization was being attempted, it has failed and will be retried at the next opportunity.

User response: The sequence of resynchronization can be retried by issuing CEMT SET CONN(*sysid*) RESYNC.

Investigate the cause of the error using the system dump and any diagnostic information already issued by CICS, the access methods or the operating system.

Format the system dump to show the control blocks belonging to the trace domain. (For guidance on how to do this, see the *CICS Problem Determination Guide*.)

The trace entries show the state of the conversation with the remote system and the arrival of any error FMH indicating an error detected in the remote system. If necessary, obtain further diagnostic material from the remote system.

Module: DFHCRRSY

XMEOUT Parameters: *date, time,applid, sessid, sysid, netname, protocol*

Destination: Console and Transient Data Queue CSMT

DFHRS2152 *date time applid* **A conversation error has occurred during resynchronization sequence on session** *sessid* **initiated to remote system** *sysid***, netname** *netname***, protocol** *protocol***.**

Explanation: The local system has initiated a sequence of resynchronization exchanges with the partner system and has completed one or more of them. The conversation is not in the right state to continue the process.

The failure indicates either an error in the remote system or a CICS logic error.

System action: A system dump is taken unless you have specifically suppressed dumps in the dump table.

Message DFHME0116 should be produced containing the symptom string for this problem.

If resynchronization was being attempted, it has failed and is retried at the next opportunity.

User response: The sequence of resynchronization can be retried by issuing CEMT SET CONN(*sysid*) RESYNC.

Investigate the cause of the error using the system dump and any diagnostic information provided by

CICS, the access methods, or the operating system.

Format the system dump to show the control blocks belonging to the trace domain. (For guidance on how to do this, see the *CICS Problem Determination Guide*.)

The trace entries show the state of the conversation with the remote system. The arrival of any error FMH indicates an error in the remote system. In this case it may be necessary to obtain further diagnostic material from the remote system.

Module: DFHCRRSY

XMEOUT Parameters: *date, time,applid, sessid, sysid, netname, protocol*

Destination: Console and Transient Data Queue CSMT

DFHRS2153 *date time applid* **An error has occurred while sending a system_restart request on session** *sessid* **to remote system** *sysid*, **netname** *netname*, **protocol** *protocol*.

Explanation: An error has occurred during the transmission of a System_restart request to a remote system. CICS was attempting to resynchronize distributed resources following an earlier failure of a protected conversation during sync point processing.

This implies one of the following

- The remote system has detected a protocol violation during the preceding exchange log names sequence.
- Some other error in communications has occurred.

System action: A system dump is taken unless you have specifically suppressed dumps in the dump table.

Message DFHME0116 should be produced containing the symptom string for this problem.

User response: The cause of the error may be indicated by diagnostic information produced by the remote system. Diagnostics issued by the local system, the access method, or the operating system may indicate a reason for the failure. Format the system dump to show the control blocks belonging to the trace domain. (For guidance on how to do this, see the *CICS Problem Determination Guide*.)

Determine from the message which session was being used for this exchange log names conversation.

If the internal trace table is available, use it to track the commands issued against the session reported in the message. Check that the state transitions of the user state machine are correct and that the conversation was in send state at the time of the error. If any of the state transitions are not valid, there may have been a CICS logic error.

Module: DFHCRRSY

XMEOUT Parameters: *date, time,applid, sessid, sysid, netname, protocol*

Destination: Console and Transient Data Queue CSMT

DFHRS2154 *date time applid* **A logic error has occurred during resynchronization with system** *sysid*, **netname** *netname*.

Explanation: A logic error has occurred during resynchronization with the partner system.

The local data associated with the resynchronization was locked at the start of processing but could not be unlocked at the end.

System action: A system dump is taken unless you have specifically suppressed dumps in the dump table.

Message DFHME0116 should be produced containing the symptom string for this problem.

An ASQL abend is subsequently issued by the transaction processing the resynchronization, and a transaction dump is taken.

User response: You need further assistance from IBM to resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHCRRSY

XMEOUT Parameters: *date, time,applid, sysid, netname*

Destination: CSMT

DFHRS2155 *date time applid* **Affinity changed by partner resource known as connection** *sysid*, **netname** *netname*. **Old LUNAME was** *old-luname*, **new LUNAME is** *new-luname*.

Explanation: A change in the generic resource member associated with the partner system has occurred but the local system has resynchronization work to complete.

The local system has previously made contact with the generic resource known as connection *sysid* (netname *netname*), and synclevel(2) work has been exchanged with the assigned member, identified by *old-luname*. Since that time, the affinity with *old-luname* has been changed to *new-luname* by action in the remote system. Resynchronization of the synclevel(2) work cannot take place.

System action: No system action is taken, but subsequent messages may indicate an exchange log names failure which could prevent the connection being used for synclevel(2) work. Alternatively, messages may indicate that resynchronization work has subsequently been erased by CICS as a result of the XLNACTION setting on the connection definition.

Module: DFHCRRSY

XMEOUT Parameters: *date, time,applid, sysid, netname, old-luname, new-luname*

Destination: CSMT

DFHRS2156 *date time applid* **A logic error occurred during resynchronization with system** *sysid*, **netname** *netname*.

Explanation: The CLS2 transaction was processing exchange lognames or resynchronization for a connected partner identified by a netname *netname*. The connection entry associated with this netname is *sysid*, and was located and locked, but could not be unlocked in subsequent processing. This indicates a CICS internal logic error.

System action: A system dump is taken unless you have specifically suppressed dumps in the dump table.

Message DFHME0116 should be produced containing the symptom string for this problem.

An ASQK abend is subsequently issued by the transaction processing the resynchronization, and a transaction dump is taken.

User response: The condition indicates an error in the CICS table manager (which may have produced its own exception trace records), or in the resynchronization program itself. You need further assistance from IBM to resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHCRRSY

XMEOUT Parameters: *date, time,applid, sysid, netname*

Destination: CSMT

DFHRS2157 *date time applid* **A logic error has occurred during resynchronization with system** *sysid*, **netname** *netname*.

Explanation: The CLS2 transaction was executing exchange log names and attempted to save a log name received from system *sysid* (netname *netname*) by invoking the CICS recovery manager domain. This operation failed because of a CICS internal error in the recovery manager domain or in the resynchronization program.

System action: The transaction is terminated with a transaction dump. A system dump is taken unless you have specifically suppressed dumps in the dump table. Abend ASQI is subsequently issued.

Message DFHME0116 should be produced containing the symptom string for this problem.

User response: You need further assistance from IBM to resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHCRRSY

XMEOUT Parameters: *date, time,applid, sysid, netname*

Destination: CSMT

DFHRS2158 *date time applid* **A logic error has occurred during resynchronization with system** *sysid*, **netname** *netname*.

Explanation: The CLS2 transaction was executing exchange log names or resynchronization with system *sysid* (netname *netname*). A CICS internal error prevented the successful completion of the operation.

System action: The transaction is terminated with a transaction dump. A system dump is taken unless you have specifically suppressed dumps in the dump table. Abend ASQB may subsequently be issued.

Message DFHME0116 should be produced containing the symptom string for this problem.

User response: You need further assistance from IBM to resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHCRRSY

XMEOUT Parameters: *date, time,applid, sysid, netname*

Destination: CSMT

DFHRTnnnn messages

DFHRT0001 *applid* **An abend (code** *aaa/bbbb***) has occurred at offset** *X'offset'* **in module** *modname***.**

Explanation: An abnormal end (abend) or program check has occurred in module *modname*. This implies that there may be an error in the CICS code. Alternatively, unexpected data has been input, or storage has been overwritten.

The code *aaa/bbbb* is a 3-digit hexadecimal MVS code (if applicable), followed by a 4-digit alphanumeric CICS code. The MVS code is a system completion code (for example, 0C1 or D37). If an MVS code is not applicable, this field is filled with three hyphens. The CICS code is an abend code or a number referring to a CICS message (for example, AKEA is a CICS abend code; 1310 refers to message DFHTS1310).

System action: An exception entry is made in the trace table. A system dump is taken, unless you have specifically suppressed dumps in the dump table.

CICS continues unless you have specified in the dump table that CICS should terminate. If appropriate, an error return code is sent to the caller of this domain. In this case CICS could be terminated by the caller (for example, the domain manager, DFHDMDM). A message is issued to this effect.

Message DFHME0116 should be produced containing the symptom string for this problem.

User response: Notify the system programmer. If CICS is still running, it is necessary to decide whether to terminate CICS.

Look up the MVS code, if there is one, in the *OS/390 MVS System Codes* manual.

Next, look up the CICS abend code. This tells you, for example, whether the error was a program check, an abend, or a runaway, and may give you some guidance concerning user response.

If module *modname* is not crucial to the running of your CICS system, you may decide to continue to run and bring CICS down at a convenient time to resolve the problem.

If you cannot run without the full use of module *modname* you should bring CICS down in a controlled shutdown.

For further information about *code*, see the *CICS Problem Determination Guide*.

You need further assistance from IBM to resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHRTSU

XMEOUT Parameters: *applid, aaa/bbbb, X'offset', modname*

Destination: Console

DFHRT0002 *applid* **A severe error (code** *X'code'***) has occurred in module** *modname***.**

Explanation: An error has been detected in module *modname*. The code X'*code* is the exception trace point ID which uniquely identifies what the error is and where the error was detected.

System action: An exception entry (code X'*code* in the message) is made in the trace table. A system dump is taken, unless you have specifically suppressed dumps in the dump table.

CICS continues unless you have specified in the dump table that CICS should terminate. If appropriate, an error return code is sent to the caller of this domain. In this case, CICS could be terminated by the caller (for example, the domain manager, DFHDMDM). A message is issued to this effect.

Message DFHME0116 should be produced containing the symptom string for this problem.

User response: This indicates a possible error in CICS code. The severity of its impact depends on the importance of the function being executed at the time of the error.

CICS may not have been terminated. If the message occurs once and module *modname* is not crucial to the running of your CICS system, you may decide to continue to run and bring CICS down at a convenient time to resolve the problem.

If the message recurs or if you cannot run without the full use of module *modname*, you should bring CICS down in a controlled shutdown.

You need further assistance from IBM to resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHRTSU

XMEOUT Parameters: *applid, X'code',modname*

Destination: Console

DFHRT4401 *time applid* **No transaction identification specified. Please try again.**

Explanation: The terminal operator has not entered an identifier for this transaction.

System action: CICS processing continues.

User response: Enter a valid transaction identifier.

Module: DFHRTE

Destination: Terminal End User

DFHRT4402 *time applid* **You cannot use a Program Function key to start transactions on other systems.**

Explanation: Program function keys cannot be used to initiate a transaction on another system using the routing transaction (CRTE).

System action: CICS processing continues.

User response: Enter a valid transaction identifier.

Module: DFHRTE

Destination: Terminal End User

DFHRT4403 *time applid* **The routing session to system** *sysid* **has been terminated. Further transactions will not be routed to the connected system.**

Explanation: The routing session has been terminated. Subsequent transaction identifiers will not be shipped to the connected system.

System action: CICS processing continues without the connection to system *sysid*.

User response: If you need to use system *sysid*, investigate why the routing session has terminated.

Module: DFHRTE

Destination: Terminal End User

DFHRT4404 *time applid* **Please change format of request to CRTE SYSID=XXXX,TRPROF=YYYYYYYY.**

Explanation: The request to the routing transaction CRTE contained incorrect syntax.

System action: CICS processing continues.

User response: Reenter the request to the routing transaction CRTE using the correct syntax.

Module: DFHRTE

Destination: Terminal End User

DFHRT4405 *time applid* **System** *sysid* **cannot be found. Please check that you have used the correct system name.**

Explanation: System *sysid* is not defined to CICS.

System action: CICS processing continues.

User response: Check that you have used the correct system name. Either reenter the request specifying the correct system name, or define system *sysid* to CICS.

Module: DFHRTE

Destination: Terminal End User

DFHRT4406 *time applid* **System** *sysid* **is released, back-level or is not in service.**

Explanation: The system *sysid* is released, back-level or is not in service.

System action: CICS processing continues. If a routing session had been established before the connection became unavailable, it remains in force until the user enters CANCEL. If the connection becomes usable before this, transactions are again routed. If this message is in response to the initial CRTE command, no routing session is in force and no routing is attempted for subsequent terminal input. If you are using IPIC with the CRTE transaction, the partner system is running a CICS release that does not support this routing service.

User response: If MRO is being used, wait until system *sysid* becomes available. Enter CANCEL to terminate an existing routing session. If IPIC is being used, verify that the CICS systems are at a release level where transaction routing over IPIC connections is supported. This support is in CTS 4.1 and higher level systems. Consider setting up MRO connections between the CICS systems.

Module: DFHRTE

Destination: Terminal End User

DFHRT4407 *time applid* **This system does not include support of Intersystem Communication.**

Explanation: The system has not been generated with support for intersystem communication.

System action: CICS processing continues without support for intersystem communication.

User response: Generate the system with support for intersystem communication.

Module: DFHRTE

Destination: Terminal End User

DFHRT4408 *time applid* **Terminal** *termid* **is not of the type supported by routing transaction** *tranid***.**

Explanation: The routing transaction does not support the type of terminal being used.

System action: CICS processing continues without support for terminal *termid*.

User response: Use a terminal of the type supported by the routing transaction, that is, a 3270 display terminal or a console.

Module: DFHRTE

Destination: Terminal End User

DFHRT4409 *time applid* **The routing session to system** *sysid* **has been started.**

Explanation: The routing session has been started.

System action: CICS processing continues.

User response: None.

Module: DFHRTE

Destination: Terminal End User

DFHRT4410 *time applid* **System** *sysid* **is unavailable. The routing session to it is terminated.**

Explanation: The routing transaction has been terminated because the system became unavailable. Subsequent transaction identifiers will not be shipped to the connected system.

System action: CICS processing continues.

User response: If appropriate, re-enter the transaction when the routing session to system *sysid* becomes available.

Module: DFHRTE

Destination: Terminal End User

DFHRT4411 *time applid* **The Communication Profile cannot be found.**

Explanation: The profile, specified for a transaction invoked from the terminal to which the message is directed, is not defined to CICS.

System action: CICS stops initialization of the transaction.

User response: Define the communication profile to CICS and reinvoke the transaction. For further information on how to define the profile, refer to the *CICS Distributed Transaction Programming Guide*.

Module: DFHRTE

Destination: Terminal End User

DFHRT4412 *time applid* **The transaction code is not defined on the remote system.**

Explanation: A transaction identification, routed to a remote CICS system, is not an installed transaction definition in the remote system. CICS directs this message to the terminal at which the transaction identification was entered.

This message is similar to DFHAC2001 in a local system.

System action: CICS stops initialization of the transaction.

User response: Enter a valid transaction ID, or install the transaction on the remote system.

Module: DFHZTSP, DFHAPRR

Destination: Terminal End User

DFHRT4413 *time applid* **The transaction has been disabled on the remote system.**

Explanation: A transaction, routed to a remote CICS system, is disabled in the installed transaction definition of the remote system. CICS directs this message to the terminal at which the transaction identification was entered.

This message is similar to DFHAC2008 in a local system.

System action: CICS stops initialization of the transaction.

User response: Enable the transaction on the remote system.

Module: DFHZTSP, DFHAPRR

Destination: Terminal End User

DFHRT4414 *time applid* **Transaction** *tranid* **cannot run. CICS shutdown is in progress in the remote system.**

Explanation: A transaction *tranid* was routed to a remote CICS system that was being quiesced. CICS directs this message to the terminal at which the transaction identification was entered.

This message is similar to DFHAC2007 in a local system.

System action: The remote CICS system continues quiescing.

User response: Reenter the transaction when the remote CICS system is in normal execution mode.

Module: DFHZTSP, DFHAPRR

Destination: Terminal End User

DFHRT4415 *time applid* **Transaction CXRT was invoked directly by terminal input. This is not allowed.**

Explanation: The transaction code CXRT, which is reserved for an internal CICS transaction, was entered from a terminal.

System action: The transaction is run with no effect.

User response: Do not enter transaction code CXRT at a terminal.

Module: DFHCRT

Destination: Terminal End User

DFHRT4416 *date time applid* **Abend** *abcode* **has occurred in the** *{Dynamic | Distributed}* **Routing Program. Module name:** *modname***.**

Explanation: Either the dynamic routing program or the distributed routing program has abnormally terminated with abend code *abcode*.

System action:

1. Transaction Routing - normal transaction abend processing continues.
2. Dynamic Distributed Program Link - a PGMIDERR condition is returned to the program issuing the Link command.
3. Non-terminal dynamically routed start requests - normal transaction abend processing continues unless the abend is during task termination. In this case message DFHRT4423 is issued.

User response: See the description of abend code *abcode* for further guidance.

If the code is not a CICS transaction abend code, it is a user abend code. Request an explanation from the programmer responsible for this area.

Module: DFHAPRT, DFHEIIC, DFHEPC, DFHICXM

XMEOUT Parameters: *date, time,applid, abcode, {1=Dynamic,2=Distributed}, modname*

Destination: CSMT

DFHRT4417 *date time applid* **Abend** *abcode* **in** *modname* **-** *{Dynamic | Distributed}* **routing program must be AMODE=31.**

Explanation: CICS has failed to link to EITHER the dynamic routing program OR the distributed routing program because it is not AMODE 31.

System action:

1. Transaction Routing - normal transaction abend processing continues.
2. Dynamic Distributed Program Link - a PGMIDERR condition is returned to the program issuing the Link command.
3. Non-terminal dynamically routed start requests - normal transaction abend processing continues unless the abend is during task termination. In this case message DFHRT4423 is issued.

User response: Recompile, reassemble, and link edit the dynamic routing program to AMODE 31.

Module: DFHAPRT, DFHEIIC, DFHEPC, DFHICXM

XMEOUT Parameters: *date, time,applid, abcode, modname, {1=Dynamic, 2=Distributed}*

Destination: CSMT

DFHRT4418 *date time applid* **Abend** *abcode* **in** *modname* **-** *{Dynamic | Distributed}* **routing program resource definition not found.**

Explanation: CICS was unable to find a PROGRAM resource definition for EITHER the dynamic routing program OR the distributed routing program.

System action:

1. Transaction Routing - normal transaction abend processing continues.
2. Dynamic Distributed Program Link - a PGMIDERR condition is returned to the program issuing the Link command.
3. Non-terminal dynamically routed start requests - normal transaction abend processing continues unless the abend is during task termination. In this case message DFHRT4423 is issued.

User response: Ensure that EITHER

1. the dynamic routing program specified by the system initialization parameter DTRPGM=*program name*, or specified via the EXEC CICS SET SYSTEM DTRPROGRAM(*program name*) has been correctly defined to CICS
2. the distributed routing program specified by the system initialization parameter DSRTPGM=*program name*, or specified via the EXEC CICS SET SYSTEM DSRTPROGRAM(*program name*) has been correctly defined to CICS

Module: DFHAPRT, DFHEIIC, DFHEPC, DFHICXM

XMEOUT Parameters: *date, time,applid, abcode, modname, {1=Dynamic, 2=Distributed}*

Destination: CSMT

DFHRT4419 *date time applid* **Abend** *abcode* **in** *modname* **- Fetch for** *{dynamic | distributed}* **routing program failed.**

Explanation: CICS was unable to load EITHER the dynamic routing program or. the distributed routing program.

System action:

1. Transaction Routing - normal transaction abend processing continues.
2. Dynamic Distributed Program Link - a PGMIDERR condition is returned to the program issuing the Link command.
3. Non-terminal dynamically routed start requests - normal transaction abend processing continues unless the abend is during task termination. In this case message DFHRT4423 is issued.

User response: Ensure that EITHER

1. the dynamic routing program specified by the system initialization parameter DTRPGM=*program name*, or specified via the EXEC CICS SET SYSTEM

DTRPROGRAM(*program name*) has been correctly defined. Ensure that it is also in a load library accessible to CICS.

2. the distributed routing program specified by the system initialization parameter DSRTPGM=*program name*, or specified via the EXEC CICS SET SYSTEM DSRTPROGRAM(*program name*) has been correctly defined. Ensure that it is also in a load library accessible to CICS.

Module: DFHAPRT, DFHEIIC, DFHEPC, DFHICXM

XMEOUT Parameters: *date, time,applid, abcode, modname, {1=dynamic, 2=distributed}*

Destination: CSMT

DFHRT4420 *date time applid* **Abend** *abcode* **in** *modname* **- Link to the** *{dynamic | distributed}* **routing program failed.**

Explanation: An unexpected return code was returned from the link to the dynamic routing program.

System action:

1. Transaction Routing - normal transaction abend processing continues.
2. Dynamic Distributed Program Link - a PGMIDERR condition is returned to the program issuing the Link command.
3. Non-terminal dynamically routed start requests - normal transaction abend processing continues unless the abend is during task termination. In this case message DFHRT4423 is issued.

User response: You need further assistance from IBM to resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHAPRT, DFHEIIC, DFHEPC, DFHICXM

XMEOUT Parameters: *date, time,applid, abcode, modname, {1=dynamic, 2=distributed}*

Destination: CSMT

DFHRT4421 *date time applid* **Unable to Delete remote Terminal** *termid* **that is connected to system** *sysid***.**

Explanation: A transaction could not be started because the remote terminal definition for *termid*, system *sysid* was flagged for deletion but the DELETE failed. This might indicate a transaction looping on the terminal.

System action: The user transaction abends with abend code AZTI.

User response: See the associated DFHZCxxxx messages for further guidance. Once corrected, you can attempt to run the transaction again.

Module: DFHZTSP

XMEOUT Parameters: *date, time,applid, termid, sysid*

Destination: Console and Transient Data Queue CSMT

DFHRT4422 *time applid* **The connection to system** *sysid* **does not support transaction routing. Please check that you have used the correct system name.**

Explanation: The connection to system *sysid* is not an MRO or APPC connection.

System action: CICS processing continues.

User response: Check that you have used the correct system name. Either reenter the request specifying the correct system name, or define the connection to system *sysid* as an MRO or APPC connection.

Module: DFHRTE

Destination: Terminal End User

DFHRT4423 *date time applid* **An error has occurred while attempting to invoke the distributed routing program.**

Explanation: An error has been detected while attempting to invoke the distributed routing program for a non-terminal start request. This error would normally result in a transaction abend but in this case no abend is issued because doing so would result in the task being suspended indefinitely.

System action: None

User response: See the preceding DFHRTxxxx messages for further guidance.

Module: DFHICXM

XMEOUT Parameters: *date, time,applid*

Destination: Console and Transient Data Queue CSMT

DFHRT4424 *time applid* **Use of EDF is not supported with IPIC communication to system** *sysid***. The routing session is still active. To terminate the routing session type CANCEL.**

Explanation: There has been an attempt to use EDF with transaction routing to the system identified and IPIC communication is in use to that system. Use of EDF with IPIC communication is not supported to system *sysid* The system identified is running a CICS release which does not support use of EDF with IPIC communication.

System action: CICS processing continues. If a CRTE routing session had been established, it remains in force until the user enters CANCEL.

User response: Consider setting up an MRO or ISC

connection between the CICS systems, or use EDF from a terminal which is locally attached to the system identified.

Module: DFHRTE

Destination: Terminal End User

DFHRT4480 *time applid* **The CSSF transaction is no longer supported. Please use CESF.**

Explanation: A user has attempted to run the CSSF transaction. The CSSF transaction is only invoked internally by CICS for CRTE cancel processing.

System action: The transaction terminates.

User response: Use the CESF transaction to sign off.

Module: DFHRTC

Destination: Terminal End User

DFHRUnnnn message

DFHRU2816 *applid* **Exit program** *progname* **is not available**

Explanation: The user-defined global exit program, *progname*, is
- not defined, or
- disabled, or
- missing from the program library.

System action: CICS abnormally terminates the recovery control restart task with transaction abend ARCB. CICS then terminates abnormally.

User response: Make program *progname* available.

Module: DFHRCEX

XMEOUT Parameters: *applid, progname*

Destination: Console

DFHRXnnnn messages

DFHRX0001 *applid* **An abend (code** *aaa/bbbb***) has occurred at offset** *X'offset'* **in module** *modname***.**

Explanation: An abnormal end (abend) or program check has occurred in module *modname*. This implies that there may be an error in the CICS code. Alternatively, unexpected data has been input, or storage has been overwritten.

The code *aaa/bbbb* is a 3-digit hexadecimal MVS code (if applicable), followed by a 4-digit alphanumeric CICS code. The MVS code is a system completion code (for example, 0C1 or D37). If an MVS code is not applicable, this field is filled with three hyphens. The CICS code is an abend code or a number referring to a CICS message (for example, AKEA is a CICS abend code; 1310 refers to message DFHTS1310).

System action: An exception entry is made in the trace table. A system dump is taken, unless you have specifically suppressed dumps in the dump table.

CICS continues unless you have specified in the dump table that CICS should terminate. If appropriate, an error return code is sent to the caller of this domain. In this case CICS could be terminated by the caller (for example, the domain manager, DFHDMDM). A message is issued to this effect.

Message DFHME0116 should be produced containing the symptom string for this problem.

User response: Notify the system programmer. If CICS is still running, it is necessary to decide whether to terminate CICS.

Look up the MVS code, if there is one, in the relevant MVS codes manual.

Next, look up the CICS alphanumeric code. This tells you, for example, whether the error was a program check, an abend, or a runaway, and may give you some guidance concerning user response.

If module *modname* is not crucial to the running of your CICS system, you may decide to continue to run and bring CICS down at a convenient time to resolve the problem.

If you cannot run without the full use of module *modname* you should bring CICS down in a controlled shutdown.

You need further assistance from IBM to resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHRXDM

XMEOUT Parameters: *applid, aaa/bbbb, X'offset', modname*

Destination: Console

DFHRX0002 *applid* **A severe error (code** *X'code'***) has occurred in module** *modname***.**

Explanation: An error has been detected in module *modname*. The code X'*code* is the exception trace point ID which uniquely identifies what the error is and where the error was detected.

System action: An exception entry (code X'*code* in the message) is made in the trace table. A system dump is taken, unless you have specifically suppressed dumps in the dump table.

CICS continues unless you have specified in the dump table that CICS should terminate. If appropriate, an

error return code is sent to the caller of this domain. In this case, CICS could be terminated by the caller (for example, the domain manager, DFHDMDM). A message is issued to this effect.

Message DFHME0116 should be produced containing the symptom string for this problem.

User response: This indicates a possible error in CICS code. The severity of its impact depends on the importance of the function being executed at the time of the error.

CICS may not have been terminated. If the message occurs once and module *modname* is not crucial to the running of your CICS system, you may decide to continue to run and bring CICS down at a convenient time to resolve the problem.

If the message recurs or if you cannot run without the full use of module *modname*, you should bring CICS down in a controlled shutdown.

You need further assistance from IBM to resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHRXDM

XMEOUT Parameters: *applid, X'code',modname*

Destination: Console

DFHRX0100I *applid* **RX domain initialization has started.**

Explanation: This is an informational message indicating the start of RX domain initialization.

System action: Initialization continues.

User response: None. You can suppress this message with the system initialization parameter, MSGLVL=0.

Module: DFHRXDM

XMEOUT Parameter: *applid*

Destination: Console

DFHRX0101I *applid* **RX domain initialization has ended.**

Explanation: RX domain initialization has completed successfully.

System action: Initialization continues.

User response: None. You can suppress this message with the system initialization parameter, MSGLVL=0.

Module: DFHRXDM

XMEOUT Parameter: *applid*

Destination: Console

DFHRX0102 *applid* **Errors were encountered during initialization of the RX domain. Domain initialization has ended.**

Explanation: Errors have been detected by the Resource Recovery Services (RX) domain during CICS initialization. Accompanying messages describe the nature of the errors.

System action: A system dump is taken, unless you have specifically suppressed dumps in the dump table.

CICS continues unless you have specified in the dump table that CICS should terminate.

User response: If your CICS system will not use any services that depend on Resource Recovery Services, no action is necessary. Otherwise, you will need to shut CICS down, and restart it once the problems identified by the earlier messages have been corrected.

Module: DFHRXDM

XMEOUT Parameter: *applid*

Destination: Console

DFHRX0103 *applid* **An unexpected return code** *X'rc'* **was received from RRMS service** *xxxxxxxx***.**

Explanation: An unexpected return code was received when CICS issued a request to Recoverable Resource Management Services (RRMS). The name of the RRMS service included in the message indicates the component of RRMS as follows

CRGxxxx
Registration Services

CTXxxxx
Context Services

ATRxxxx
Resource Recovery Services (RRS)

This message may indicate a problem with RRMS.

System action: CICS continues, but - depending on the service and the return code - CICS services that depend on RRMS may not be available. Further messages will provide more information.

User response: Record the name of the RRMS service and the return code. RRMS return codes are documented in *z/OS MVS Programming: Resource Recovery*.

If you are unable to determine the cause of the problem from this information, you may need assistance from IBM. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHRXDM, DFHRXUW

XMEOUT Parameters: *applid, X'rc', xxxxxxxx*

Destination: Console

DFHRX0104I *applid* **The Resource Recovery Services (RRS) exit manager** *aaaaaaaaaaaaaaaa* **is now available.**

Explanation: This message is issued when CICS discovers that a Resource Recovery Services (RRS) exit manager is available. The insert *aaaaaaaaaaaaaaaa* is the name of the exit manager.

System action: CICS begins restart processing with RRS.

User response: None. You can suppress this message with the system initialization parameter, MSGLVL=0.

Module: DFHRXDM

XMEOUT Parameters: *applid, aaaaaaaaaaaaaaaa*

Destination: Console

DFHRX0105I *applid* **The Resource Recovery Services (RRS) exit manager** *aaaaaaaaaaaaaaaa* **is now unavailable.**

Explanation: This message is issued when CICS discovers that a Resource Recovery Services (RRS) exit manager is unavailable. The insert *aaaaaaaaaaaaaaaa* is the name of the exit manager. Transactions which use RRS to coordinate their updates cannot be successfully executed.

System action: CICS continues. Message DFHRX0104 will be issued when the exit manager becomes available once more.

User response: None. You can suppress this message with the system initialization parameter, MSGLVL=0.

Module: DFHRXDM

XMEOUT Parameters: *applid, aaaaaaaaaaaaaaaa*

Destination: Console

DFHRX0106I *applid* **Restart processing with Resource Recovery Services (RRS) is beginning.**

Explanation: This message is issued when CICS begins restart processing with Resource Recovery Services (RRS).

System action: CICS continues.

User response: None. You can suppress this message with the system initialization parameter, MSGLVL=0.

Module: DFHRXDM

XMEOUT Parameter: *applid*

Destination: Console

DFHRX0107I *applid* **Restart processing with Resource Recovery Services (RRS) has ended.**

Explanation: This message is issued when restart processing with Resource Recovery Services (RRS) ends. If RRS has become unavailable during restart processing (indicated by message DFHRX0105) restart processing may be incomplete.

System action: CICS continues. If RRS has become unavailable, CICS will resume restart processing when RRS becomes available once more.

User response: None. You can suppress this message with the system initialization parameter, MSGLVL=0.

Module: DFHRXDM

XMEOUT Parameter: *applid*

Destination: Console

DFHRX0108 *date time applid* **Log name mismatch with Resource Recovery Services. Expected Log name** *logname***. Received Log name** *logname***.**

Explanation: During the exchange of log names with Resource Recovery Services (RRS), which occurred when RRS restarted, this system's memory of RRS's log name did not match the log name retrieved from RRS. RRS may have performed a cold start.

System action: CICS execution continues. Units of work that are awaiting resynchronization with RRS will not be resolved automatically.

User response: The associated units of work may need to be resolved by using CEMT SET UOW. The message should not recur.

Module: DFHRXDM

XMEOUT Parameters: *date, time,applid, logname, logname*

Destination: Console and Transient Data Queue CSMT

DFHRX0109 *date time applid* **Invalid pass token received on connection** *sysid* **session** *termid***.**

Explanation: A batch program using the extended External CICS Interface (EXCI) has issued a DPL request which does not include the SYNCONRETURN option. However, the value of the pass token received from the batch region does not match that which was lodged with Recoverable Resource Management Services (RRMS) in the batch region.

System action: DFHRXUW provides console message DFHRX0002, and possibly a system dump (depending on the options in the dump table). The transactional DPL request will not be processed, and the batch job which issued the request may be suspended until it times out.

User response: Investigate why the pass token was incorrect. It is possible that an unauthorized user has attempted to guess the value of the pass token in order to influence the outcome of a Unit of Work that has expressed interest in an RRMS Unit of Recovery.

If you are satisfied that there has been no attempt to interfere with the pass token, you may need further assistance from IBM. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHRXUW

XMEOUT Parameters: *date, time,applid, sysid, termid*

Destination: Console and Transient Data Queue CSCS

DFHRX0110 *applid* **Restart processing with Resource Recovery Services (RRS) was attempted on the wrong system.**

Explanation: Resource Recovery Services (RRS) has rejected a request to begin restart processing because there is incomplete recoverable work associated with this CICS applid on another system in the sysplex.

System action: CICS execution continues, but CICS services that depend upon RRS will not be available until the problem is corrected.

User response: If your CICS system will not use any services that depend on RRS, no action is necessary. Otherwise, close CICS down and restart it on the correct system in the sysplex. Use the RRS ISPF panels to scan the RRS Resource Manager Data log in order to find the correct system on which to restart CICS.

If, for some reason, you cannot restart CICS on another system in the sysplex, you can take the following steps. However, if you do so, resources may be out of synchronization

1. Use the RRS Unit of Recovery list panels to force completion of the incomplete recoverable work
2. Restart CICS or RRS
3. Force any CICS units of work that are awaiting resolution from RRS.

Module: DFHRXDM

XMEOUT Parameter: *applid*

Destination: Console

DFHRX0111 *applid* **Resource Recovery Services (RRS) has lost logged data. Resynchronization information may be missing.**

Explanation: While attempting to recover resynchronization information from its logs, Resource Recovery Services (RRS) has discovered that some data is missing. This is due to a problem with the RRS log streams.

System action: CICS restart processing with RRS continues, but RRS may not be able to provide a decision for all indoubt units or work. In these cases, updates to local resources will be committed or backed out according to the ACTION attribute in the corresponding transaction definition.

The Recovery Manager domain will issue one of the following messages for each unit of work affected, indicating the outcome
DFHRM0112
DFHRM0113

User response: Use the information provided in the Recovery Manager message to decide what action is needed. You may need to take steps to resynchronize resources in local and remote systems.

Module: DFHRXDM

XMEOUT Parameter: *applid*

Destination: Console

DFHRZnnnn messages

DFHRZ0001 *applid* **An abend (code** *aaa/bbbb***) has occurred at offset** *X'offset'* **in module** *modname***.**

Explanation: An abnormal end (abend) or program check has occurred in module *modname*. This implies that there may be an error in CICS code.

Alternatively
- Unexpected data has been input,
- Storage has been overwritten, or
- There has been a program check within a user program.

The code *aaa* is, if applicable, a 3-digit hexadecimal MVS system completion code (for example, 0C1 or D37). If an MVS code is not applicable, this field is filled with three hyphens. The 4-digit code *bbbb*, which follows *aaa*, is a user abend code produced either by CICS or by another product on the user's system.

If X'*offset*' contains the value X'FFFF', then module *modname* was in control at the time of the abend, but the program status word (PSW) was not addressing this module.

System action: An exception entry is made in the trace table. A system dump is taken, unless you have specifically suppressed dumps in the dump table.

Either this is a critical error and CICS is terminated, even if you have specified in the dump table that CICS should not terminate.

Or CICS will continue unless you have specified in the dump table that CICS should terminate. Message DFHME0116 should be produced containing the symptom string for this problem.

User response: Notify the system programmer.

Look up the MVS code *aaa*, if there is one, in the relevant MVS codes manual which is detailed in the book list in the front of this manual.

If the *modname* insert contains the value *????*, then CICS was unable to determine which module has abnormally terminated. In this case, examine the system dump to determine which area of code has caused the program check.

The user should examine other messages to determine what the module which issued this message was doing at the time the abend occurred. From these messages they can deduce which product has produced the abend code *bbbb*. If *bbbb* is identified as a CICS code, it may be either alphameric or numeric.

- If the CICS code is alphameric (for example AKEA) then it is a CICS transaction abend code.
- If the CICS code is numeric (for example 1310), it refers to a CICS message (DFHTS1310 in our example).

If the user abend code is from another product (for example, IMS), refer to the appropriate messages and codes manual to determine the cause of the abend.

The entries in the appropriate manuals will give the user guidance regarding the nature of the error, and may also give some guidance concerning the appropriate user response. The program check may have occurred in a user program. If this is the case, the program check is usually followed by an ASRA or an ASRB transaction abend and a transaction dump.

If you want to suppress system dumps that precede ASRA and ASRB abends, you must specify this on an entry in the dump table, using either CEMT or an EXEC CICS command. Further guidance on suppressing system dumps can be found in the *CICS System Definition Guide*.

You may need further assistance from IBM to resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHRZxx

XMEOUT Parameters: *applid, aaa/bbbb, X'offset', modname*

Destination: Console

DFHRZ0002 *applid* **A severe error (code** *X'code'***) has occurred in module** *module***.**

Explanation: The RZ domain has received an unexpected error response from some other part of CICS. The operation requested by recovery manager is described by code X'*code*'.

For further information about CICS exception trace entries, refer to the *CICS Problem Determination Guide*.

System action: A system dump is taken and the system attempts to continue operation unless specifically inhibited by dump table entries.

Message DFHME0116 should be produced containing the symptom string for this problem.

User response: Investigate the cause of the problem as follows

1. Determine if the problem can be explained by any previous messages issued from some other CICS component.
2. Examine the symptom string.
3. Examine the dump.

If you cannot resolve the problem, you will need further assistance from IBM. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHRZRT1, DFHRZRT2, DFHRZDM, DFHRZRM, DFHRZRG2

XMEOUT Parameters: *applid, X'code',module*

Destination: Console

DFHRZ0201 *date time applid* **The call to invoke the Distributed Routing Program,** *program***, has failed. The program was not defined.**

Explanation: An error occurred when attempting to link to the Distributed Routing Program, identified by the DSRTPGM SIT parameter.

System action: A ARZU dump may be produced depending on type of failure.

User response: Ensure that the Distributed Routing Program is available to the system. It must be defined to Program Manager and it must be present in the DFHRPL library concatenation. Alternatively, name a new Distributed Routing Program using SET SYSTEM DSRTPROGRAM or from CEMT.

Module: DFHRZRT2

XMEOUT Parameters: *date, time,applid, program*

Destination: CSSH

DFHRZ0202 *date time applid* **The Distributed Routing Program,** *program***, has returned a bad response.**

Explanation: The Distributed Routing Program, identified by the DSRTPGM SIT parameter, has returned a bad response. The request will not be serviced.

System action: No dumps are taken.

User response: None

Module: DFHRZRT2

XMEOUT Parameters: *date, time,applid, program*

Destination: CSSH

DFHRZ0203 *date time applid* **The call to invoke the Distributed Routing Program,** *program***, has failed. The Distributed Routing Program has abnormally terminated with abend Code** *abcode***.**

Explanation: The Distributed Routing Program has abnormally terminated with abend code *abcode*.

System action:

1. Transaction Routing - normal transaction abend processing continues.
2. Dynamic Distributed Program Link - an abended condition is returned to the calling program.

User response: See the description of abend code *abcode* for further guidance.

If the code is not a CICS transaction abend code, it is a user abend code. Request an explanation from the programmer responsible for this area.

Module: DFHRZRT2

XMEOUT Parameters: *date, time,applid, program, abcode*

Destination: CSSH

DFHRZ0204 *date time applid* **The call to invoke the Distributed Routing Program,** *program***, has failed due to an invalid AMODE.**

Explanation: An error occurred when attempting to link to the Distributed Routing Program, identified by the DSRTPGM SIT parameter. The program has an invalid AMODE specified.

System action: No dumps are taken.

User response: Ensure that the Distributed Routing Program definition is correct.

Module: DFHRZRT2

XMEOUT Parameters: *date, time,applid, program*

Destination: CSSH

DFHRZ0205 *date time applid* **The call to invoke the Distributed Routing Program,** *program***, has failed. The program was not loadable.**

Explanation: An error occurred when attempting to link to the Distributed Routing Program, identified by the DSRTPGM SIT parameter.

System action: An ARZU dump may be produced depending on type of failure.

User response: Ensure that the Distributed Routing Program is available to the system. It must be defined to Program Manager and it must be present in the DFHRPL library concatenation. Alternatively, name a new Distributed Routing Program using SET SYSTEM DSRTPROGRAM or from CEMT.

Module: DFHRZRT2

XMEOUT Parameters: *date, time,applid, program*

Destination: CSSH

DFHSHnnnn messages

DFHSH0001 *applid* **An abend (code** *code***) has occurred at offset** *X'offset'* **in module** *module***.**

Explanation: An unexpected program check or abend occurred with abend code *aaa/bbbb*.

The program status word (PSW) at the time of the program check or abend indicated that CICS was executing at offset X'*offset* in module *modname*. This may have been caused by corruption of CICS code or control blocks.

System action: A system dump is taken and the system attempts to continue operation unless otherwise directed by entries in the dump table.

Message DFHME0116 should be produced containing the symptom string for this problem.

User response: Investigate the cause of the program check or abend using the system dump and any previously output diagnostic information provided by CICS, the access methods, or the operating system.

If you cannot resolve the problem, you will need further assistance from IBM. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHSHRT1, DFHSHRT2, DFHSHDM, DFHSHPR, DFHSHRQ, DFHSHSY

XMEOUT Parameters: *applid, code,X'offset', module*

Destination: Console

DFHSH0002 *applid* **A severe error (code** *X'code'***) has occurred in module** *module***.**

Explanation: The SH domain has received an unexpected error response from some other part of CICS. The operation requested by recovery manager is described by code X'*code*.

For further information about CICS exception trace entries, refer to the *CICS Problem Determination Guide*.

System action: A system dump is taken and the system attempts to continue operation unless specifically inhibited by dump table entries.

Message DFHME0116 should be produced containing

the symptom string for this problem.

User response: Investigate the cause of the problem as follows

1. Determine if the problem can be explained by any previous messages issued from some other CICS component.
2. Examine the symptom string.
3. Examine the dump.

If you cannot resolve the problem, you will need further assistance from IBM. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHSHRT1, DFHSHRT2, DFHSHDM, DFHSHPR, DFHSHSY, DFHSHRE

XMEOUT Parameters: *applid, X'code',module*

Destination: Console

DFHSH0101 *date time applid* **The call to invoke the Distributed Routing Program,** *program*, **has failed. Refer to message DFHSH0105.**

Explanation: An error occurred when attempting to link to the Distributed Routing Program, identified by the DSRTPGM SIT parameter.

System action: A ASHU dump may be produced depending on type of failure.

User response: Ensure that the Distributed Routing Program is available to the system. It must be defined to Program Manager and it must be present in the DFHRPL library concatenation. Alternatively, name a new Distributed Routing Program using SET SYSTEM DSRTPROGRAM or from CEMT.

Module: DFHSHRT2

XMEOUT Parameters: *date, time,applid, program*

Destination: CSSH

DFHSH0102 *date time applid* **The Distributed Routing Program,** *program*, **has returned a bad response. See following message DFHSH0105.**

Explanation: The Distributed Routing Program, identified by the DSRTPGM SIT parameter, has returned a bad response. The request may not be serviced immediately.

System action: No dumps are taken.

User response: None

Module: DFHSHRE

XMEOUT Parameters: *date, time,applid, program*

Destination: CSSH

DFHSH0103 *date time applid* **The call to invoke the Distributed Routing Program,** *program*, **has failed. The Distributed Routing Program has abnormally terminated with abend Code** *abcode*.

Explanation: The Distributed Routing Program has abnormally terminated with abend code *abcode*.

System action:

1. Transaction Routing - normal transaction abend processing continues.
2. Dynamic Distributed Program Link - an abended condition is returned to the calling program.

User response: See the description of abend code *abcode* for further guidance.

If the code is not a CICS transaction abend code, it is a user abend code. Request an explanation from the programmer responsible for this area.

Module: DFHSHRT2

XMEOUT Parameters: *date, time,applid, program, abcode*

Destination: CSSH

DFHSH0104 *date time applid* **The call to invoke the Distributed Routing Program,** *program*, **has failed due to an invalid AMODE.**

Explanation: An error occurred when attempting to link to the Distributed Routing Program, identified by the DSRTPGM SIT parameter. The program has an invalid AMODE specified.

System action: No dumps are taken.

User response: Ensure that the Distributed Routing Program definition is correct.

Module: DFHSHRT2

XMEOUT Parameters: *date, time,applid, program*

Destination: CSSH

DFHSH0105 *date time applid* **Request (Id:** *requestid*, **Processtype:** *processtype*, **Processname:** *processname*, **Activityname:** *activityname*, **Transaction:** *tranid*) **cannot be serviced. It will be retried every minute and will be purged after 24 hours if not serviced then.**

Explanation: A request cannot be serviced immediately. This is either because the Distributed Routing Program, identified by the DSRTPGM SIT parameter, has returned a response which indicates that it is unable to route a request, or a temporary error occurred during an attempt to service the request locally.

The request is identified by the request id *id* (the key of the request on the Local Request Queue data set

(DFHLRQ)), the process type *processtype*, the process name *processname*, the activity name *activityname*, and the transaction id *tranid*.

System action: No dumps are taken. The request is marked unserviceable, and is then retried every minute until it is either serviced, or 24 hours have elapsed in which case the request is purged and message DFHSH0107 issued.

Message DFHSH0106 is issued once every hour while the request cannot be serviced. If the request is serviced successfully, message DFHSH0108 is issued.

User response: Investigate why the request cannot be serviced. This may be caused by one of the following

- The local request queue is unavailable.
- The request refers to a resource (activity or process) which is unavailable.
- The system to which the request is to be routed is down, or the link is down.
- The Distributed Routing Program is failing or is returning an invalid target system.

Module: DFHSHRM

XMEOUT Parameters: *date, time,applid, requestid, processtype,processname, activityname, tranid*

Destination: Console and Transient Data Queue CSSH

DFHSH0106 *date time applid* **Request (Id:** *requestid*, **Processtype:** *processtype*, **Processname:** *processname*, **Activityname:** *activityname*, **Transaction:** *tranid*) **still cannot be serviced. It will be retried every minute and will be purged after** *hours* **hours if not serviced successfully.**

Explanation: Following message DFHSH0105, this message is issued every hour while a request cannot be successfully serviced.

The request is identified by the request id *requestid* (the key of the request on the Local Request Queue data set (DFHLRQ)), the process type *processtype*, the process name *processname*, the activity name *activityname*, and the transaction id *tranid*.

System action: No dumps are taken. The request continues to be retried every minute until it is either serviced successfully, or 24 hours have elapsed since message DFHSH0105 was issued, in which case the request is purged and message DFHSH0107 is issued.

User response: See message DFHSH0105.

Module: DFHSHRM

XMEOUT Parameters: *date, time,applid, requestid, processtype,processname, activityname, tranid,hours*

Destination: Console and Transient Data Queue CSSH

DFHSH0107 *date time applid* **Request (Id:** *requestid*, **Processtype:** *processtype*, **Processname:** *processname*, **Activityname:** *activityname*, **Transaction:** *tranid*) **has remained unserviceable for 24 hours and has now been purged.**

Explanation: A request has been unserviceable for 24 hours and has now been purged. This message will have been preceded by message DFHSH0105 and several occurrences of message DFHSH0106.

The request is identified by the request id *requestid* (the key of the request on the Local Request Queue data set (DFHLRQ)), the process type *processtype*, the process name *processname*, the activity name *activityname*, and the transaction id *tranid*.

System action: No dumps are taken. The request is deleted.

User response: See message DFHSH0105.

Module: DFHSHRQ

XMEOUT Parameters: *date, time,applid, requestid, processtype,processname, activityname, tranid*

Destination: Console and Transient Data Queue CSSH

DFHSH0108 *date time applid* **Previously unserviceable request (Id** *requestid*, **Processtype:** *processtype*, **Processname** *processname*, **Activityname:** *activityname*, **Transaction** *tranid*) **has now been successfully serviced.**

Explanation: A request which was previously unserviceable has now been successfully serviced. This message will have been preceded by message DFHSH0105 and possibly one or more occurrences of message DFHSH0106.

The request is identified by the request id *requestid* (the key of the request on the Local Request Queue data set (DFHLRQ)), the process type *processtype*, the process name *processname*, the activity name *activityname*, and the transaction id *tranid*.

System action: No dumps are taken.

User response: None.

Module: DFHSHRM

XMEOUT Parameters: *date, time,applid, requestid, processtype,processname, activityname, tranid*

Destination: Console and Transient Data Queue CSSH

DFHSH0109 *date time applid* **An error has occurred when attempting to access the Local Request Queue data set (DFHLRQ).** *{The file could not be found. | The file was closed. | The file was disabled. | There was insufficient space. | An I/O error occurred. | The data set is being copied.}* **The Local Request Queue is now unavailable.**

Explanation: One of the following errors was detected when attempting to access the Local Request Queue data set (DFHLRQ)

- The file could not be found.
- The file was closed.
- The file was disabled.
- There was insufficient space.
- An I/O error occurred.
- The data set is being copied.

System action: The Local Request Queue is made unavailable. CICS then attempts to access the data set every minute. If successful, message DFHSH0110 is issued to indicate the data set is now available.

User response: Investigate the error which caused the Local Request Queue to be made unavailable.

Module: DFHSHRE, DFHSHRQ, DFHSHSY

XMEOUT Parameters: *date, time, applid, {1=The file could not be found., 2=The file was closed., 3=The file was disabled., 4=There was insufficient space., 5=An I/O error occurred., 6=The data set is being copied.}*

Destination: Console and Transient Data Queue CSSH

DFHSH0110 *date time applid* **The Local Request Queue data set (DFHLRQ) is now available.**

Explanation: The Local Request Queue data set (DFHLRQ), which was previously unavailable, is now available. See message DFHSH0109.

System action: None.

User response: None.

Module: DFHSHSY

XMEOUT Parameters: *date, time,applid*

Destination: Console and Transient Data Queue CSSH

DFHSH0111 *date time applid tranid trannum userid* **An error has occured in Scheduler Services during the prepare phase of syncpoint.**

Explanation: Scheduler Services domain encountered an error during the prepare phase of syncpoint.

System action: Scheduler Services returns a NO vote to the Recovery Manager. The transaction will be abended with an ASP7 abend.

User response: Check for other Scheduler Services messages that may indicate the cause of the error. For example, message DFHSH0109 indicates problems with the Local Request Queue.

Module: DFHSHRM

XMEOUT Parameters: *date, time,applid, tranid, trannum, userid*

Destination: Console and Transient Data Queue CSSH

DFHSInnnn messages

DFHSI0914I *applid* **Unable to initiate transaction CSFU. Files will not be opened at initialization.**

Explanation: Module DFHSIJ1 could not start transaction CSFU. Execution of the DFHIC TYPE=INITIATE macro failed. Either CSFU is not an installed transaction definition, or DFHFCU is not an installed program definition.

System action: CICS does not open any files at initialization time. If a file is defined to be opened at initialization time, CICS will open it on first reference.

User response: Make transaction CSFU and program DFHFCU available for execution. Group DFHOPCLS in DFHLIST contains all of the definitions needed for file opening and closing (dynamically as well as at initialization time).

Module: DFHSIJ1

XMEOUT Parameter: *applid*

Destination: Console

DFHSI1250 *applid* **VSAM error processing SHOWCAT for intrapartition data set** *dsetname* **R15=***xxxx***.**

Explanation: During SHOWCAT processing for the intrapartition data set, *dsetname*, VSAM detected an error and issued return code *xxxx*.

System action: CICS writes a dump and terminates abnormally.

Message DFHME0116 containing the symptom string for this problem is returned.

User response: Check the return code in the *DFSMStvs Administration Guide* and restart CICS.

Module: DFHSID1

XMEOUT Parameters: *applid, dsetname, xxxx*

Destination: Console

DFHSI1499 *applid* **Unable to acquire special storage.**

Explanation: As part of CICS initialization, an attempt is made to acquire an area of storage from the fetch-protected subpool. The attempt has been unsuccessful.

System action: CICS terminates abnormally with a dump.

User response: This error indicates a severe problem with your operating system. You need further assistance from IBM to resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHSIB1

XMEOUT Parameter: *applid*

Destination: Console

DFHSI1500 *applid element* **startup is in progress for CICS Transaction Server Version** *version*

Explanation: This is an informatory message indicating that *element* startup is in progress.

Element is part of CICS Transaction Server Version *version*.

Element = CICS Version = 1.3.0

System action: System initialization continues.

User response: None. This message cannot be suppressed.

Module: DFHAPSIP

XMEOUT Parameters: *applid, element,version*

Destination: Console

DFHSI1501I *applid* **Loading CICS nucleus.**

Explanation: This is an informatory message indicating that the CICS nucleus is being loaded.

System action: System initialization continues.

User response: None.

Module: DFHSIB1

XMEOUT Parameter: *applid*

Destination: Console

DFHSI1502I *applid* **CICS startup is** *{Cold | Warm | Emergency | Initial}***.**

Explanation: During CICS initialization, the type of restart is determined and the operator notified by this message.

System action: System initialization continues.

User response: None.

Module: DFHSIC1, DFHSII1

XMEOUT Parameters: *applid, {1=Cold, 2=Warm, 3=Emergency, 4=Initial}*

Destination: Console

DFHSI1503I *applid* **Terminal data sets are being opened.**

Explanation: This is an informatory message indicating that the terminal data sets are being opened.

System action: System initialization continues.

User response: None.

Module: DFHSIF1

XMEOUT Parameter: *applid*

Destination: Console

DFHSI1506 *applid* **Unable to OPEN the global catalog.**

Explanation: During initialization, CICS issued an OPEN for the global catalog DFHGCD data set, but the OPEN failed.

System action: CICS terminates abnormally with a dump.

User response: Examine the preceding VSAM message for the reason for the OPEN failure. Note that if you specify START=AUTO, or if you define your system with journal support, you must supply a global catalog data set in the JCL.

Module: DFHSIC1

XMEOUT Parameter: *applid*

Destination: Console

DFHSI1511I *applid* **Installing group list** *grplist***.**

Explanation: Group list *grplist* is being installed.

System action: System initialization continues.

User response: None.

Module: DFHAMPIL

XMEOUT Parameters: *applid, grplist*

Destination: Console

DFHSI1517 *applid* **Control is being given to CICS.**

Explanation: This is an informatory message indicating that control is being given to CICS.

applid is the z/OS Communications Server APPLID of the CICS system issuing the message.

System action: System initialization continues.

User response: None.

Module: DFHSIJ1

XMEOUT Parameter: *applid*

Destination: Console

DFHSI1519I *applid* **The interregion communication session was successfully started in XCF group** *xcfgroup*

Explanation: This is an informatory message indicating that the interregion communication (IRC) session has been successfully started and is a member of the given xcf group.

System action: System initialization continues.

User response: None.

Module: DFHSIJ1

XMEOUT Parameters: *applid, xcfgroup*

Destination: Console

DFHSI1521 *applid* **CICS unable to continue for reasons given above.**

Explanation: CICS initialization cannot continue because of one or more serious errors. One or more preceding messages describe these errors.

System action: CICS terminates with a dump.

User response: Refer to any preceding messages for further guidance on what the problems may be and how to solve them. Correct the errors and restart CICS.

Module: DFHSII1, DFHSIJ1

XMEOUT Parameter: *applid*

Destination: Console

DFHSI1522D *applid* **Restart errors reported above. Reply 'GO' or 'CANCEL'.**

Explanation: One or more error messages precede this message. CICS can continue initialization but only in degraded mode.

System action: Depending on your response to this message, CICS terminates or continues initialization in degraded mode.

User response: Consider the reported errors and their effects, and decide if you want CICS to continue in degraded mode. If you do, reply 'GO'. If you do not, then reply 'CANCEL'. Correct the errors and restart CICS.

Module: DFHSII1

XMEOUT Parameter: *applid*

Destination: Console

DFHSI1530 *applid* **Purge of non-executable ATI request inoperative.**

Explanation: CICS is unable to initiate the CRSQ task to delete automatic transaction initiation (ATI) requests from the system when those requests are not honored for longer than the ATI purge delay interval.

System action: System initialization continues.

User response: If ATI purge is required, ensure that the CRSQ task is available next time CICS is initialized.

Module: DFHSIJ1

XMEOUT Parameter: *applid*

Destination: Console

DFHSI1531 *applid* **Terminal control incompatibility.** *macro* **VTAM return code:** *retcode* **error code:** *errcode* **(modname: DFHZRPL).**

Explanation: CICS found an inconsistency during the initialization of terminal control. *macro* is the name of the failing z/OS Communications Server macro. *retcode* is the z/OS Communications Server hexadecimal return code in Register 15. *errcode* contains the contents of Register 0, which is the associated error code in hexadecimal. See *z/OS Communications Server: SNA Programming* for a complete description of the z/OS Communications Server return code *retcode* and the z/OS Communications Server error code *errcode*.

The probable cause of this inconsistency is that VTAM=YES was specified (perhaps by default) in the SIT, but the z/OS Communications Server macros GENCB and SHOWCB are not available.

System action: After issuing this message, CICS system initialization abnormally terminates with a system dump.

Message DFHME0116 should be produced containing the symptom string for this problem.

User response: Use the z/OS Communications Server return code and error code to determine the cause of failure in the z/OS Communications Server macro *macro*. Correct the error using *z/OS Communications Server: SNA Programming*, and restart CICS.

Module: DFHZRPL

XMEOUT Parameters: *applid, macro, retcode, errcode*

Destination: Console

DFHSI1533 *applid modname* **loaded at X'***address***'.**

Explanation: This is an informatory message indicating that CICS has loaded module *modname* at address *address*.

System action: System initialization continues.

User response: None.

Module: DFHAPSIP

XMEOUT Parameters: *applid, modname,address*

Destination: Console

DFHSI1534 *applid* **Unable to link to program DFHAMP - GRPLIST parameter ignored.**

Explanation: The DFHAMP program cannot be found on the load library. The GRPLIST parameter cannot be processed and so is ignored.

System action: System initialization continues.

User response: Ensure that the DFHAMP program is on the load library.

Module: DFHSII1

XMEOUT Parameter: *applid*

Destination: Console

DFHSI1535 *applid* **Severe error detected in DFHAMP - CICS is terminating.**

Explanation: A severe error was detected while the GRPLIST parameter was being processed.

System action: A dump is provided and CICS is terminated.

User response: This is most probably a logic error in DFHAMP. You need further assistance from IBM to resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHSII1

XMEOUT Parameter: *applid*

Destination: Console

DFHSI1536D *applid* **GRPLIST** *grplist* **does not exist. Enter alternative name, 'GO' or 'CANCEL'.**

Explanation: Group list *grplist* cannot be found on the CSD file.

System action: CICS waits for a reply. If you reply CANCEL, CICS terminates. If you reply GO, CICS ignores the specified GRPLIST and tries to install the next one. If you specify a valid list name, CICS initialization continues and the list is installed.

User response: Enter 'GO', 'CANCEL' or a valid GRPLIST.

Module: DFHAMPIL

XMEOUT Parameters: *applid, grplist*

Destination: Console

DFHSI1537D *applid* **GRPLIST** *grplist* **does not exist. Enter alternative name or 'CANCEL'.**

Explanation: Group list *grplist* cannot be found on the CSD file.

System action: CICS waits for a reply. If you reply CANCEL, CICS terminates. If you specify a valid list name, CICS initialization continues and the list is installed.

User response: Enter 'CANCEL' or a valid GRPLIST.

Module: DFHAMPIL

XMEOUT Parameters: *applid, grplist*

Destination: Console

DFHSI1538D *applid* **Install GRPLIST Errors. Is startup to be continued - Enter 'GO' or 'CANCEL'.**

Explanation: Errors have been detected in DFHAMP while installing GRPLIST during CICS initialization. Accompanying messages describe the nature of the errors.

System action: CICS waits for a reply. If you reply CANCEL, CICS terminates. If you reply GO, CICS initialization continues.

User response: See the associated messages for further information about these errors. Reply with GO or CANCEL.

Module: DFHSII1

XMEOUT Parameter: *applid*

Destination: Console

DFHSI1539 *applid* **Error attaching the CESC (Terminal Timeout) transaction.**

Explanation: The CESC transaction failed to start during initialization of an alternate XRF region. Although CICS continues to initialize, terminals left signed on after the takeover are not timed out.

System action: A dump is produced and CICS continues initialization.

User response: Use the dump to investigate why the transaction could not be started. It may be that the system was short on storage or that the transaction has been disabled.

Module: DFHSIJ1

XMEOUT Parameter: *applid*

Destination: Console

DFHSI1542 *applid* **Takeover by the CICS alternate system has failed. Emergency restart could not be performed.**

Explanation: This CICS alternate system is attempting to take over from its associated active CICS system but the recovery manager component has indicated that an initial start is required because of a system log failure.

System action: CICS is abnormally terminated and a dump is provided.

User response: Look for console messages issued by the active CICS system which indicate the nature of the log failure. If no such messages have been issued, an internal CICS error may have occurred. In this case you will need assistance from IBM. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHSII1

XMEOUT Parameter: *applid*

Destination: Console

DFHSI1543 *applid* **Time-Of-Day clock inoperative.**

Explanation: System initialization was unable to establish the time-of-day clock values for CICS.

System action: CICS is abnormally terminated and a dump is provided.

User response: The time-of-day clock is external to CICS execution and may have been disabled. Enable the time-of-day clock and restart CICS.

Module: DFHSII1

XMEOUT Parameter: *applid*

Destination: Console

DFHSI1547 *applid* **Notification of a default qualified LUNAME to the recovery manager domain has failed.**

Explanation: CICS is running with VTAM=NO, or an attempt to open the z/OS Communications Server ACB has failed.

If VTAM=NO is specified, CICS uses the UOWNETQL system initialization parameter to form a default qualified LUNAME to pass to the recovery manager. If the z/OS Communications Server ACB failed to open, CICS uses UOWNETQL to form the default qualified LUNAME. If UOWNETQL has not been specified, CICS sets UOWNETQL to the invalid value '9UNKNOWN' to highlight the problem.

An attempt was then made to transfer the default qualified LUNAME of the system to the recovery manager domain for use in constructing unit of work (UOW) identifiers. The attempt failed, indicating a serious error.

System action: CICS continues. UOW identifiers constructed by the recovery manager domain do not contain a qualified luname.

User response: Keep the exception trace data produced by the recovery manager domain. You need further assistance from IBM to resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHSIF1

XMEOUT Parameter: *applid*

Destination: Console

DFHSI1548 *applid* **After opening the z/OS Communications Server ACB, CICS has failed to transfer the fully qualified LUNAME to the recovery manager domain.**

Explanation: The z/OS Communications Server ACB was opened by CICS to allow communication via VTAM. An attempt was then made to transfer the fully qualified LUNAME of the system. The LUNAME is provided to the recovery manager domain by z/OS Communications Server for use in constructing unit of work (UOW) identifiers. The attempt failed, indicating a serious error.

System action: CICS continues. Unit of work identifiers constructed by the recovery manager domain do not contain a fully qualified LUNAME.

User response: Keep the exception trace data produced by the recovery manager domain. You need further assistance from IBM to resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHZSLS

XMEOUT Parameter: *applid*

Destination: Console

DFHSI1549 *applid* **Logic error when building TCT module list.**

Explanation: The format of the modules DFHZCA, ZCB, ZCP, ZCW, ZCX, ZCY, ZCZ and ZCXR was not as expected.

System action: CICS is abnormally terminated and a dump is provided.

Message DFHME0116 should be produced containing the symptom string for this problem.

User response: Possible reasons for this message are

1. The modules listed were generated without z/OS Communications Server facilities, but the system initialization table (SIT) specifies VTAM=YES.
2. The entry points of the listed modules are incorrect.

3. The module list in each of the listed modules is incorrect.

If reason 1, correct the error. Otherwise, you will need further assistance from IBM. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHSIF1

XMEOUT Parameter: *applid*

Destination: Console

DFHSI1550 *applid* **A severe error has occurred while making a** *domain* **domain call with response (***X'response'***) and reason (***X'reason'***).**

Explanation: An unexpected error was returned from the specified domain. The response and reason codes are given.

System action: A system dump is taken, unless the failing domain has previously taken diagnostics.

This is a critical error and CICS is terminated, even if you have specified in the dump table that CICS should not terminate. Message DFHME0116 should be produced containing the symptom string for this problem.

User response: Notify the system administrator. This failure indicates a serious error in CICS.

You need further assistance from IBM to resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHSII1

XMEOUT Parameters: *applid, domain,X'response', X'reason'*

Destination: Console

DFHSI1551 *applid* **The CICS region userid** *userid* **is not authorized to use the PLTPIUSR parameter userid** *userid***. Initialization cannot continue, so CICS is terminated.**

Explanation: The userid specified in the job control statements for the CICS region is not authorized to use the userid specified in the PLTPIUSR system initialization parameter.

System action: CICS initialization terminates.

User response: Ensure that the correct userid is specified for PLT processing.

Ensure that the userid for the CICS region has the necessary authorization. This may require the assistance of a security administrator.

When the necessary corrections have been made rerun the CICS job.

Module: DFHSII1

XMEOUT Parameters: *applid, userid,userid*

Destination: Console

DFHSI1552 *applid* **Userid** *userid* **specified for the PLTPIUSR parameter has not been defined correctly to the external security manager (ESM). SAF codes are (***X'safresp'***,***X'safreas'***). ESM codes are (***X'esmresp'***,***X'esmreas'***).**

Explanation: The userid specified for the PLTPIUSR initialization parameter has been defined incorrectly.

System action: CICS terminates abnormally with a dump.

User response: Ensure that the desired userid is specified for PLT processing and that external security manager (ESM) definitions have been specified correctly.

The response and reason codes (*safresp* and *safreas*) returned by the system authorization facility (SAF), and the response and reason codes (*esmresp* and *esmreas*) returned by the external security manager (ESM) are those issued by the RACROUTE REQUEST=VERIFY or RACROUTE REQUEST=EXTRACT macros. These return codes are described in the *z/OS MVS Authorized Assembler Services Guide* and in *z/OS Security Server RACROUTE Macro Reference*. See these manuals for an explanation of the codes.

There may be further messages produced by CICS or the external security manager (ESM) which provide more information.

Correct the errors and restart CICS.

Module: DFHSII1

XMEOUT Parameters: *applid, userid, X'safresp', X'safreas', X'esmresp', X'esmreas'*

Destination: Console

DFHSI1553 *applid* **The unit of work network qualifier specified via the UOWNETQL parameter contains invalid characters or begins with a number. A dummy qualifier is substituted.**

Explanation: The UOWNETQL system initialization parameter has been specified incorrectly. The UOWNETQL parameter must consist of uppercase letters (A through Z), or numbers in the range 0 through 9. The first character must be a letter.

CICS is running with VTAM=NO, or an attempt to open the z/OS Communications Server ACB has failed.

When VTAM=NO is specified, CICS uses UOWNETQL to form a default qualified LUNAME to pass to the recovery manager.

If the z/OS Communications Server ACB fails to open, CICS uses UOWNETQL to form the default qualified LUNAME.

System action: CICS continues but with the UOWNETQL deliberately set to the invalid value '9UNKNOWN' to highlite the problem.

User response: Correct the UOWNETQL system initialization parameter.

Module: DFHSIF1

XMEOUT Parameter: *applid*

Destination: Console

DFHSI1556 *applid* **SKRP** *{A | F}x* **disabled due to extension of PGRET value.**

Explanation: The new PGRET value supplied as an initialization option has caused all the single-key retrieval values to be rebuilt. The value shown in the message exceeds 16 bytes. *x* can be a value 1 through 3 for A and 1 through 12 for F.

System action: The key given in the message (PA1-PA3 and PF1-PF12 respectively) is disabled.

User response: If it has been specified (by PARM) that initialization overrides can be entered by means of the console, the opportunity will be given to re-enter the PGRET and/or the SKR*xxxxx* initialization option.

Module: DFHPASY

XMEOUT Parameters: *applid, {1=A, 2=F}, x*

Destination: Console

DFHSI1558 *applid* **Program** *progname* **cannot be found.**

Explanation: Program *progname* is essential for CICS to initialize correctly, but was not defined in a group referenced by the group list specified in the startup job stream.

System action: A dump is provided and CICS is terminated.

User response: Ensure that the program is defined in a group referenced by the group list specified in the startup job stream.

Module: DFHSIJ1

XMEOUT Parameters: *applid, progname*

Destination: Console

DFHSI1559 *applid* **Profile DFHCICSE cannot be found.**

Explanation: The DFHCICSE profile is essential for CICS to initialize correctly. However it was not defined in the group list specified in the startup job stream.

System action: A dump is provided and CICS is terminated.

User response: Ensure that the DFHCICSE profile is defined in the group list specified in the startup job stream. A definition of DFHCICSE is provided in the DFHSTAND group on the CICS system definition (CSD) file.

Module: DFHXCPA, DFHSIJ1

XMEOUT Parameter: *applid*

Destination: Console

DFHSI1562 *applid* **Unable to initialize application domain statistics.**

Explanation: During CICS initialization, an error was detected while the application domain (AP) statistics control module, DFHSII1, was being initialized. This could indicate a problem with the AP component of CICS.

System action: An exception trace entry is made in the trace table and CICS terminates abnormally with a system dump.

Message DFHME0116 should be produced containing the symptom string for this problem.

User response: This error may have occurred because of an earlier error detected by the kernel (KE) domain of CICS. Look for earlier messages from the KE domain beginning DFHKE*xxxx*, CICS trace table entries with the prefix KE and a dump. These indicate the type of error and the action that should be taken.

If no earlier error is detected by the KE component, DFHSII1 makes an exception entry in the trace table (id=X'0700) and terminates CICS abnormally with code=1562 and with a system dump. In this case you will need further assistance from IBM. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHSII1

XMEOUT Parameter: *applid*

Destination: Console

DFHSI1572 *applid* **Unable to OPEN VTAM ACB - RC=***xxxxxxxx* **ACB Code=***yy***.**

Explanation: An error was encountered during system initialization while attempting to open the z/OS Communications Server ACB. RC=*xxxxxxxx* is the z/OS Communications Server error code found in Register 15. *yy* is the hexadecimal contents of the ACB.

System action: CICS initialization continues.

User response: See *z/OS Communications Server: SNA Programming* for a complete description of the values of the ACB error field and the return code.

Use the values and the return code to determine the cause of the problem.

Decide whether to cancel or to continue. (This message appears if you bring up CICS before you bring up VTAM.)

If you want to use z/OS Communications Server terminals in this CICS run, you must activate VTAM. You can open the z/OS Communications Server ACB with the CEMT SET VTAM OPEN command.

Module: DFHSIF1

XMEOUT Parameters: *applid, xxxxxxxx, yy*

Destination: Console

DFHSI1573 *date time applid* **Terminal Control is unavailable due to an unsupported access method.**

Explanation: ACB/TCAM, and releases of z/OS Communications Server prior to version 3, are not supported by this release of CICS.

System action: CICS terminates with a system dump.

User response: Update your access method.

Module: DFHZSLS

XMEOUT Parameters: *date, time,applid*

Destination: Console

DFHSI1574 *applid* **TCTUA Subpool not added in DFHZRPL. CICS initialization cannot continue.**

Explanation: An attempt to add a subpool by the storage manager has failed. Module DFHZRPL has failed in an attempt to add a subpool for use by the TCTUA's associated with non-z/OS Communications Server terminals. Since it is necessary to have the subpool present for use when needed, this is a serious error.

System action: The initialization of the CICS system which tried to perform the addition of the subpool abends. If it was not able to add the subpool, then CICS is not able to execute properly.

Message DFHME0116 should be produced containing the symptom string for this problem.

User response: You need further assistance from IBM to resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHZRPL

XMEOUT Parameter: *applid*

Destination: Console

DFHSI1575 *applid* **Getmain failed for TCTUA subpool in module DFHZRPL. CICS initialization cannot continue.**

Explanation: The module DFHZRPL has failed in an attempt to GETMAIN an area of storage for use by the TCTUA subpool. This subpool has already been added but no storage yet exists for it. This is a serious error.

System action: As a result of the GETMAIN failure so early in the initialization sequence, it is not possible to continue the CICS initialization. The CICS system which tried and failed to perform the GETMAIN terminates.

Message DFHME0116 should be produced containing the symptom string for this problem.

User response: You need further assistance from IBM to resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHZRPL

XMEOUT Parameter: *applid*

Destination: Console

DFHSI1576 *applid* **Unable to find VTAM ACB.**

Explanation: An error was encountered during system initialization while attempting to find the z/OS Communications Server ACB.

System action: CICS continues to initialize, but z/OS Communications Server is not available.

User response: If you do not require z/OS Communications Server support, this message can be ignored.

If you have z/OS Communications Server installed on your system, check that VTAM=NO has not been specified as a system initialization parameter. If VTAM=YES is specified, investigate why z/OS Communications Server is not currently available on your system.

Module: DFHSIF1

XMEOUT Parameter: *applid*

Destination: Console

DFHSI1578D *applid* **PLTPI specified cannot be found. Reply 'GO' or 'CANCEL'.**

Explanation: The post-initialization program list table (PLTPI) cannot be found because the PLT does not exist in the CICS program library.

System action: If the response is 'CANCEL', CICS is terminated. If the response is 'GO', processing continues without PLT processing.

User response: Respond 'GO' or 'CANCEL'.

Module: DFHSIPLT

XMEOUT Parameter: *applid*

Destination: Console

DFHSI1579D *applid* **Module** *modname{ PLT | connection }***program** *progname* **not found. Reply 'GO' or 'CANCEL'.**

Explanation: This message indicates that either a program defined in the post-initialization program list table (PLTPI) cannot be found, or a connection program used when connecting to CICSPlex SM, DBCTL, DB2 or MQ cannot be found. The attempt to invoke a connection program results from coding CPSMCONN=CMAS, or CPSMCONN=LMAS, or CPSMCONN=WUI, or DBCTLCON=YES, or DB2CONN=YES, or MQCONN=YES in the SIT.

For PLT programs, if the message is issued during the first PLT phase in initialization, the program does not exist in the CICS program library. If the message is produced during the post-initialization PLT phase, the program did not have an installed program entry or was not found in the CICS program library.

For connection programs, the program did not have an installed program entry or was not found in the CICS program library.

modname indicates which of the modules issued the message. *progname* is the name of the program which cannot be found.

System action: If the response is 'CANCEL', CICS is terminated. If the response is 'GO', the program is bypassed.

User response: Reply 'CANCEL' or 'GO'.

Module: DFHSIPLT

XMEOUT Parameters: *applid, modname,{1= PLT , 2= connection }, progname*

Destination: Console

DFHSI1580D *applid{ PLT | Connection }***program** *program-name* **has abended, code** *abcode***. Reply 'GO' or 'CANCEL'.**

Explanation: CICS was processing either the initialization program list table (PLT) when the PLT program *program-name* abended with abend code *abcode*, or was processing connection program *program-name* and it abended with abend code *abcode*.

System action: If the response is 'CANCEL', CICS is terminated. If the response is 'GO', the program is bypassed.

User response: Reply 'CANCEL' or 'GO'.

Module: DFHSIPLT

XMEOUT Parameters: *applid, {1=PLT , 2= Connection }, program-name,abcode*

Destination: Console

DFHSI1582 *applid* **Local DLI PSBs present in the PDIR. CICS does not support local DLI.**

Explanation: CICS has detected that local PSBs are present in the user specified PDIR. CICS no longer supports local DLI. A PDIR is only required for remote DLI, and must contain only remote PSB definitions. A PDIR is not required for DBCTL.

System action: A CICS abend dump is produced, and CICS is terminated.

User response: If remote DLI is required, correct the PDIR by removing the local PSBs. Then reassemble and relinkedit the PDIR, and resubmit the CICS job.

If remote DLI support is not required, change the system initialization table (SIT) to specify PDIR=NO.

Module: DFHSIH1

XMEOUT Parameter: *applid*

Destination: Console

DFHSI1589 *applid* **VTAM is not currently active.**

Explanation: CICS initialization cannot OPEN the z/OS Communications Server access method control block (ACB) because z/OS Communications Server is not active.

System action: If this is an alternate system, CICS waits for 15 seconds and retries the OPEN indefinitely.

If this is not an alternate system, CICS proceeds with the rest of initialization. The Open z/OS Communications Server Retry transaction COVR is attached, and retries the OPEN every 5 seconds for ten minutes.

User response: In the case of an alternate, check that z/OS Communications Server is on its way up. If it is not, you can cancel this alternate.

Module: DFHSIF1

XMEOUT Parameter: *applid*

Destination: Console

DFHSI1590 *applid* **XRF alternate cannot proceed without VTAM.**

Explanation: CICS initialization cannot OPEN the z/OS Communications Server access method control block (ACB). The ACB error code may be found in the preceding message DFHSI1572.

System action: CICS is terminated with a dump.

User response: Refer to DFHSI1572 and use the information to try and resolve the causes of the errors.

Module: DFHSIF1

XMEOUT Parameter: *applid*

Destination: Console

DFHSI1592 *applid* **CICS applid not (yet) active to VTAM.**

Explanation: CICS initialization cannot OPEN the z/OS Communications Server access method control block (ACB) because z/OS Communications Server does not recognize the APPLID (z/OS Communications Server error X'5A). There may be a user error in the value of APPLID (for example, on a SIT override) or the application subarea containing APPLID may not be active in VTAM. Alternatively, it may be possible that z/OS Communications Server is still coming up. If so, the problem may correct itself when z/OS Communications Server completes its initialization.

System action: If this is an alternate CICS, wait for 15 seconds and retry the OPEN indefinitely. If this is not an alternate, CICS proceeds with the rest of initialization.

User response: In the case of an alternate, check that z/OS Communications Server is on its way up. If it is, check that the required application sub-area is active in VTAM. If it is, you may cancel this alternate. If this is not an alternate, you can use CEMT to retry the OPEN when CICS has initialized.

Module: DFHSIF1

XMEOUT Parameter: *applid*

Destination: Console

DFHSI1594 *applid* **A** *xxxx* **level of module** *progname* **is being loaded.**

Explanation: The system is loading a level of module *progname* that was not assembled against the current level of CICS in the CICS Transaction Server product. The level *xxxx* shows the level of the module being used.

System action: System initialization continues.

User response: Ensure that it is valid to use an old level of module *progname*. Usually, it will be necessary to reassemble the module for the current level of CICS being used.

Module: DFHAPSIP

XMEOUT Parameters: *applid, xxxx,progname*

Destination: Console

DFHSI1596 *applid* **Nucleus module** *progname* **cannot be located.**

Explanation: Nucleus module *progname* was not found in the CICS library while loading the nucleus.

System action: The AP domain initialization routines continue to attempt to load the remaining nucleus modules. After trying to load all the nucleus modules, CICS is terminated.

User response: Add the missing module *progname* to the appropriate library and restart CICS.

Module: DFHAPSIP, DFHSID1

XMEOUT Parameters: *applid, progname*

Destination: Console

DFHSI1597 *applid* **VTAM=YES invalid with a non VTAM TCT - VTAM=NO forced.**

Explanation: The TCT loaded has been assembled with ACCMETH=NONVTAM but VTAM=YES was specified on the SIT.

System action: CICS continues but without z/OS Communications Server support.

User response: To use z/OS Communications Server, remove ACCMETH=NONVTAM from the TCT macro.

Module: DFHZINT

XMEOUT Parameter: *applid*

Destination: Console

DFHSI1599 *applid* **Region/Partition size insufficient to initialize transient data.**

Explanation: Transient data initialization failed, either because an attempt to create Storage Manager subpool failed or because an attempt to get storage failed.

System action: A system dump is produced, and CICS is abnormally terminated.

User response: Increase the region size available to CICS.

Module: DFHSID1

XMEOUT Parameter: *applid*

Destination: Console

DFHSI1784 *applid* **The user shutdown assist transaction** *tranid* **has not been defined as a shutdown enabled local transact ion.**

Explanation: This message is issued during CICS initialization and indicates that the user shutdown assist transaction specified on the system initialization table (SIT) has not been defined as a shutdown enabled local transaction.

System action: No action is taken. A TRANSIDERR may be returned on PERFORM SHUTDOWN.

User response: Do one of the following

- Correct the shutdown transaction definition.
- Change or remove the SIT SDTRAN option.

- Use the CEMT or EXEC CICS PERFORM SHUTDOWN SDTRAN option.

Module: DFHSIJ1

XMEOUT Parameters: *applid, tranid*

Destination: Console

DFHSI2810 *applid* **CANCEL reply received. CICS is terminating.**

Explanation: A CANCEL reply has been received.

System action: CICS terminates.

User response: Refer to previous messages to determine what action to take.

Module: DFHSII1, DFHSIPLT, DFHAMPIL

XMEOUT Parameter: *applid*

Destination: Console

DFHSI2813 *applid* **Program DFHRCEX cannot be found.**

Explanation: CICS cannot find DFHRCEX in any data set concatenated in the DFHRPL DD statement in the CICS startup job stream.

System action: CICS initialization terminates with a dump.

User response: To correct this error, place DFHRCEX in a partitioned data set in the DFHRPL DD statement.

Module: DFHSIJ1

XMEOUT Parameter: *applid*

Destination: Console

DFHSI8420I *applid* **About to link to PLT programs during the second stage of initialization.**

Explanation: CICS is about to link to the user PLT programs defined in the PLTPI system initialization parameter during the second stage of initialization.

System action: Control is passed to the user PLT programs.

User response: None. This message can be suppressed with the system initialization parameter MSGLVL=0.

Module: DFHSIPLT

XMEOUT Parameter: *applid*

Destination: Console

DFHSI8421I *date time applid* **PLT program** *progname* **has been invoked during the second stage of initialization.**

Explanation: CICS has invoked user PLT program *progname* during the second stage of initialization.

System action: Control is returned to CICS.

User response: None. This message can be suppressed with the system initialization parameter MSGLVL=0.

Module: DFHSIPLT

XMEOUT Parameters:

date, *time*, *applidprogname*

Destination: Console

DFHSI8424I *applid* **Control returned from PLT programs during the second stage of initialization.**

Explanation: Control is returned to CICS to continue system initialization.

System action: Control is returned to CICS.

User response: None. This message can be suppressed with the system initialization parameter MSGLVL=0.

Module: DFHSIPLT

XMEOUT Parameter: *applid*

Destination: Console

DFHSI8430I *applid* **About to link to PLT programs during the third stage of initialization.**

Explanation: CICS is about to link to the user PLT programs defined in the PLTPI SIT parameter during the third stage of initialization.

System action: Control is passed to the user PLT programs.

User response: None. This message can be suppressed with the system initialization parameter MSGLVL=0.

Module: DFHSIPLT

XMEOUT Parameter: *applid*

Destination: Console

DFHSI8431I *date time applid* **PLT program** *progname* **has been invoked during the third stage of initialization.**

Explanation: CICS has invoked user PLT program *progname* during the third stage of initialization.

System action: Control is returned to CICS.

User response: None. This message can be suppressed with the system initialization parameter MSGLVL=0.

Module: DFHSIPLT

XMEOUT Parameter: *applid*

date, *time*, *applidprogname*

Destination: Console

DFHSI8434I *applid* **Control returned from PLT programs during the third stage of initialization.**

Explanation: Control is returned to CICS to continue system initialization.

System action: Control is returned to CICS.

User response: None. This message can be suppressed with the system initialization parameter MSGLVL=0.

Module: DFHSIPLT

XMEOUT Parameter: *applid*

Destination: Console

DFHSI8440I *applid* **Initiating connection to** *resmanager***.**

Explanation: CICS is about to connect to the specified resource manager immediately prior to running PLT programs during the third stage of initialization. The resource manager is CICSPlex SM, DBCTL, DB2 or MQ. Connection is initiated because CPSMCONN=CMAS, or CPSMCONN=LMAS, or CPSMCONN=WUI, or DBCTLCON=YES, or DB2CONN=YES, or MQCONN=YES was specified in the SIT.

System action: Control is passed to the resource manager connect program.

User response: None. This message can be suppressed with the system initialization parameter MSGLVL=0.

Module: DFHSIPLT

XMEOUT Parameters: *applid, resmanager*

Destination: Console

DFHSI8441I *applid* **Connection to** *resmanager qualifier* **successfully completed.**

Explanation: CICS has successfully connected to the specified resource manager immediately prior to running PLT programs during the third stage of initialization. The resource manager name is shown along with the resource manager qualifier.

System action: CICS processing continues.

User response: None. This message can be suppressed with the system initialization parameter MSGLVL=0.

Module: DFHSIPLT

XMEOUT Parameters: *applid, resmanager, qualifier*

Destination: Console

DFHSI8442 *applid* **Connection to** *resmanager* **has failed.**

Explanation: CICS was unable to connect to resource manager *resmanager* immediately prior to running PLT programs during the third stage of initialization. The resource manager is DBCTL, DB2 or MQ. Connection was initiated because DBCTLCON=YES, or DB2CONN=YES, or MQCONN=YES was specified in the SIT.

System action: CICS processing continues.

User response: Refer to previous messages issued by CICS or the resource manager adapter to determine why the connection attempt failed.

Module: DFHSIPLT

XMEOUT Parameters: *applid, resmanager*

Destination: Console

DFHSI8443 *applid* **Connection to** *resmanager* **not completed. Adapter is awaiting initialization of** *resmanager***.**

Explanation: CICS was unable to complete connection to resource manager *resmanager* immediately prior to running PLT programs during the third stage of initialization. The resource manager is DBCTL, DB2 or MQ. Connection was initiated because DBCTLCON=YES, or DB2CONN=YES, or MQCONN=YES was specified in the SIT.

The resource manager adapter is waiting for the resource manager to be initialized.

System action: CICS processing continues. The connection is completed when the resource manager is initialized.

User response: Refer to messages issued by the relevant resource manager adapter to determine when connection is completed.

Module: DFHSIPLT

XMEOUT Parameters: *applid, resmanager, resmanager*

Destination: Console

DFHSI8444 *applid* **Unable to initiate the Enterprise Java Resolution transaction CEJR. EJ resolution will not occur.**

Explanation: Enterprise Java domain processing uses transaction CEJR to resolve CorbaServers and DJars. This processing cannot occur before a given point in CICS processing. However, resolution can occur for CorbaServers and DJars created as part of RDO processing. Consequently, CEJR is initiated to execute EJ Resolution. Module DFHSIJ1 could not start transaction CEJR. Execution of the DFHIC TYPE=INITIATE macro failed. Either CEJR is not an installed transaction definition, or DFHEJITL is not an installed program definition.

System action: CICS processing continues. When a CorbaServer or a DJar is installed resolution will not occur.

User response: Ensure that transaction CEJR and program DFHEJITL are available for execution. Group

DFHSTAND in DFHLIST contains the definitions needed for EJ resource resolution processing.

Use CECI to initiate CEJR as a non-terminal transaction. After CEJR has run once, the installation of CorbaServers and DJars should proceed.

Module: DFHSIJ1

XMEOUT Parameter: *applid*

Destination: Console

DFHSI8445 *applid* **An attempt to getmain storage intended for the Language Interface work area failed.**

Explanation: An attempt to getmain storage intended for the Language Interface work area failed.

System action: CICS terminates with a system dump.

User response: Increase below the line storage available to CICS.

Module: DFHSIJ1

XMEOUT Parameter: *applid*

Destination: Console

DFHSJnnnn messages

DFHSJ0001 *applid* **An abend (code** *aaa/bbbb***) has occurred at offset** *X'offset'* **in module** *modname***.**

Explanation: An unexpected program check or abend occurred with abend code *aaa/bbbb*.

The program status word (PSW) at the time of the program check or abend indicated that CICS was executing at offset X'*offset* in module *modname*. This may have been caused by corruption of CICS code or control blocks.

System action: A system dump is taken and the system attempts to continue operation unless otherwise directed by entries in the dump table.

Message DFHME0116 should be produced containing the symptom string for this problem.

User response: Investigate the cause of the program check or abend using the system dump and any previously output diagnostic information provided by CICS, the access methods, or the operating system.

If you cannot resolve the problem, you will need further assistance from IBM. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHSJDM, DFHSJIN, DFHSJIS

XMEOUT Parameters: *applid, aaa/bbbb, X'offset', modname*

Destination: Console

DFHSJ0002 *applid* **A severe error (code** *X'code'***) has occurred in module** *module***.**

Explanation: The recovery manager domain has received an unexpected error response from some other part of CICS. The operation requested by recovery manager is described by code X'*code*.

For further information about CICS exception trace entries, refer to the *CICS Problem Determination Guide*.

System action: A system dump is taken and the system attempts to continue operation unless specifically inhibited by dump table entries.

Message DFHME0116 should be produced containing the symptom string for this problem.

User response: Investigate the cause of the problem as follows

1. Determine if the problem can be explained by any previous messages issued from some other CICS component.
2. Examine the symptom string.
3. Examine the dump.

If you cannot resolve the problem, you will need further assistance from IBM. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHSJDM, DFHSJIN, DFHSJIS

XMEOUT Parameters: *applid, X'code',module*

Destination: Console

DFHSJ0004 *applid* **A possible loop has been detected at offset** *X'offset'* **in module** *modname***.**

Explanation: A CICS function is taking more time to process than CICS expects. A possible loop has been detected in module *modname* at offset X'*offset*. This is the offset of the instruction which happened to be executing at the time when the error was detected.

System action: An exception entry is made in the trace table.

A system dump is taken unless you have specifically suppressed the dump by a user exit program at the XDUREQ exit, in the dump table, or by global system dump suppression. CICS processing continues unless you have specified in the dump table that CICS should terminate.

Message DFHME0116 should be produced containing

the symptom string for this problem.

User response: If CICS has not terminated, you must decide whether the problem is serious enough to bring CICS down.

Since some CICS functions can use a lot of CPU time, this message might have been caused by a long-running function and there might not be an error. Usually, CICS purges a CICS function which exceeds the runaway task time interval that you have specified in the ICVR system initialization parameter. This means that execution of module *modname* is terminated and CICS continues.

If you have specified system initialization parameter ICVR=0 and you believe that module *modname* is looping, you must terminate CICS in order to terminate the runaway function.

If CICS has terminated module *modname*, and you believe that it was not a runaway, you should increase the value of the ICVR system initialization parameter. You have to close down CICS at a suitable time to do this permanently. You can change the ICVR time interval temporarily online using the CEMT transaction.

If increasing the value of ICVR does not solve the problem, you might need further assistance from IBM to resolve the problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: **XMEOUT Parameters:** *applid, X'offset', modname*

Destination: Console

DFHSJ0101I *applid* **The JVM (SJ) domain for Java has started initializing. Java is a trademark of Oracle and/or its affiliates.**

Explanation: This is an informational message indicating that SJ domain initialization has started.

System action: System initialization continues.

User response: None. The message can be suppressed with the system initialization parameter MSGLVL=0.

Module: DFHSJDM

XMEOUT Parameter: *applid*

Destination: Console

DFHSJ0102I *applid* **SJ domain initialization has ended.**

Explanation: The SJ domain initialized correctly.

System action: Initialization continues.

User response: None.

Module: **XMEOUT Parameter:** *applid*

Destination: Console

DFHSJ0103 *applid* **SJ domain initialization has failed.**

Explanation: The SJ domain did not correctly initialize.

System action: An exception entry is made in the trace table. A system dump is taken, unless you have specifically suppressed dumps in the dump table.

CICS continues unless you have specified in the dump table that CICS should terminate. If appropriate, an error return code is sent to the caller of this domain. CICS could be shut down by the caller, for example, the domain manager, DFHDMDM. A message is issued to this effect.

Message DFHME0116 should be produced containing the symptom string for this problem.

User response: This message indicates a possible error in CICS code. The severity of its impact depends on the importance of the function that is being run at the time of the error.

CICS might not have been shut down. If the message occurs once and the domain is not crucial to the running of your CICS system, you can continue initialization and shut down CICS at a convenient time to resolve the problem.

If the message recurs or if you cannot continue without the full use of SJ domain, shut down CICS using a controlled shutdown.

You need further assistance from IBM to resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: **XMEOUT Parameter:** *applid*

Destination: Console

DFHSJ0201 *date time applid JVMProfile* **A call to CELQPIPI with function code INIT_SUB has failed. (Return code -** *X'rc'* **).**

Explanation: The CICS-JVM interface attempted to initialize a Language Environment enclave using the pre-initialized interface. This attempt failed with return code *rc*.

This message can be generated when a JVM in CICS abends.

System action: CICS takes a system dump and abends the transaction with abend code AEXZ.

User response: Ensure that the OMVS segment has been set up for the user ID that the CICS region runs under.

Ensure that the OMVS RACF (or equivalent) segment has been defined for the user ID that the CICS region runs under.

Review the STDERR log for any messages that may have been issued prior to the failure. The location of the STDERR file is defined in JVM profile *JVMProfile*.

Look at SYSOUT or CESE destination for Language Environment messages. See the *z/OS Language Environment Programming Guide* for information about the CELQPIPI function and find the explanation of the return code (Register 15) for that function.

Ensure that the SDFJAUTH PDSE is included in the APF authorized STEPLIB concatenation and that SCEERUN2 and SCEERUN are in the RPL concatenation.

If the JVM abended there might be a JAVADUMP file in the working directory of the HFS file system.

If the problem persists you might need to contact your IBM support representative.

Module: DFHSJIN

XMEOUT Parameters: *date, time, applid, JVMProfile, X'rc'*

Destination: CSMT

DFHSJ0202 *date time applid JVMProfile* **A call to CELQPIPI with function code TERM has failed. (Return code -** *X'rc'* **). See the JVM's STDERR log for further details.**

Explanation: The CICS-JVM interface attempted to initialize a Language Environment enclave using the pre-initialized interface. This attempt failed with return code *rc*.

This message can be generated when a JVM in CICS abends.

System action: CICS takes a system dump and abends the transaction with abend code AEXZ.

User response: Review the JVM's STDERR log for any messages the JVM issued prior to the failure. The location of the STDERR file is defined in JVM profile *JVMProfile*.

Look at SYSOUT or CESE destination for Language Environment messages. See the *z/OS Language Environment Programming Guide* for information about the CELQPIPI function and find the explanation of the return code (Register 15) for that function.

If the JVM abended there might be a JAVADUMP file in the working directory of the HFS file system.

If the problem persists you might need to contact your IBM support representative.

Module: DFHSJIN

XMEOUT Parameters: *date, time, applid, JVMProfile, X'rc'*

Destination: CSMT

DFHSJ0203 *date time applid JVMProfile* **A call to CELQPIPI with function code CALL_SUB has failed. (Return code -** *X'rc'* **). See the JVM's STDERR log for further details.**

Explanation: The CICS-JVM interface attempted to initialize a Language Environment enclave using the pre-initialized interface. This attempt failed with return code *rc*.

This message can be generated when a JVM in CICS abends.

System action: CICS takes a system dump and abends the transaction with abend code AEXZ.

User response: Review the JVM's STDERR log for any messages the JVM issued prior to the failure. The location of the STDERR file is defined in JVM profile *JVMProfile*.

Look at SYSOUT or CESE destination for Language Environment messages. See the *z/OS Language Environment Programming Guide* for information about the CELQPIPI function and find the explanation of the return code (Register 15) for that function.

If the JVM abended there might be a JAVADUMP file in the working directory of the HFS file system.

If the problem persists you might need to contact your IBM support representative.

Module: DFHSJIN

XMEOUT Parameters: *date, time, applid, JVMProfile, X'rc'*

Destination: CSMT

DFHSJ0204 *date time applid JVMProfile* **A call to CELQPIPI with function code CALL_SUB has failed. (Return code -** *X'rc'* **). See the JVM's STDERR log for further details.**

Explanation: The CICS-JVM interface attempted to initialize a Language Environment enclave using the pre-initialized interface. This attempt failed with return code *rc*.

This message can be generated when a JVM in CICS abends.

System action: CICS takes a system dump and abends the transaction with abend code AEXZ.

User response: Review the JVM STDERR log for any messages the JVM issued prior to the failure. The location of the STDERR file is defined in JVM profile *JVMProfile*.

Look at SYSOUT or CESE destination for Language Environment messages. See the *z/OS Language Environment Programming Guide* for information about the CELQPIPI function and find the explanation of the

return code (Register 15) for that function.

If the JVM abended there might be a JAVADUMP file in the working directory of the HFS file system.

If the problem persists you might need to contact your IBM support representative.

Module: DFHSJIN

XMEOUT Parameters: *date, time, applid, JVMProfile, X'rc'*

Destination: CSMT

DFHSJ0205 *date time applid JVMProfile* **A call to CELQPIPI with function code CALL_SUB has failed. (Return code - *X'rc'*). See the JVM's STDERR log for further details.**

Explanation: The CICS-JVM interface attempted to initialize a Language Environment enclave using the pre-initialized interface. This attempt failed with return code *rc*.

This message can be generated when a JVM in CICS abends.

System action: CICS takes a system dump and abends the transaction with abend code AEXZ.

User response: Review the JVM STDERR log for any messages the JVM issued prior to the failure. The location of the STDERR file is defined in JVM profile *JVMProfile*.

Look at SYSOUT or CESE destination for Language Environment messages. See the *z/OS Language Environment Programming Guide* for information about the CELQPIPI function and find the explanation of the return code (Register 15) for that function.

If the JVM abended there might be a JAVADUMP file in the working directory of the HFS file system.

If the problem persists you might need to contact your IBM support representative.

Module: DFHSJIN

XMEOUT Parameters: *date, time, applid, JVMProfile, X'rc'*

Destination: CSMT

DFHSJ0206 *date time applid* **The runtime options specified in DFHJVMRO are too long. The Language Environment enclave cannot be initialized. The JVM was not started.**

Explanation: The Language Environment runtime options specified in DFHJVMRO are too long. The options specified in DFHJVMRO are concatenated with runtime options required by CICS for use when initializing the Language Environment enclave. The total length of the runtime options that may be specified cannot exceed 255 characters.

System action: The JVM is not started. Exception trace point SJ 0225 is issued.

User response: Data 1 in the exception trace shows the Language Environment runtime options from DFHJVMRO. Data 2 shows the Language Environment runtime options provided by CICS.

Examine the options from DFHJVMRO. Remove any unnecessary options and if possible abbreviate any Language Environment runtime options in your source for DFHJVMRO. Assemble and re-link DFHJVMRO after making your changes.

If CICS has not been restarted since the failure you will need to use CEMT SET PROGRAM(DFHJVMRO) NEWCOPY before attempting to restart the JVM.

Module: DFHSJIN

XMEOUT Parameters: *date, time,applid*

Destination: CSMT

DFHSJ0207 *date time applid* **CICS is running Java version** *version***.**

Explanation: This message shows the version of Java that CICS is running. It is issued when the first Java Virtual machine is started after CICS initialization. *version*. The version found at runtime is *version*.

System action: None.

User response: None.

Module: DFHSJIN

XMEOUT Parameters: *date, time,applid, version*

Destination: CSMT

DFHSJ0210 *date time applid* **An attempt to start a JVM for the JVMSERVER resource** *jvmserver* **has failed. Reason code** *{JVMPROFILE_ERROR | OPEN_JVM_ERROR | JNI_CREATE_NOT_FOUND | SETUP_CLASS_NOT_FOUND | TERMINATION_CLASS_NOT_FOUND | CREATE_JVM_FAILED | CHANGE_DIRECTORY_CALL_FAILED | STDOUT/STDERR_ACCESS_FAILED | ERROR_LOCATING_MAIN_METHOD | ATTACH_JNI_THREAD_FAILED | SETUP_CLASS_TIMEDOUT | ENCLAVE_INIT_FAILED | ERROR_CODE_UNRECOGNIZED}***.**

Explanation: An attempt to start a JVM for the JVMSERVER resource *jvmserver* has failed. The reason code provides further information about why the JVM failed to start:

ATTACH_JNI_THREAD_FAILED
An attempt to attach a thread and run setup or termination classes in the JVM server has failed.

CHANGE_DIRECTORY_CALL_FAILED
An attempt to change the zFS working directory has failed.

CREATE_JVM_FAILED
An attempt to create a JVM has failed. Additional diagnostic messages have been output to the standard error stream.

ENCLAVE_INIT_FAILED
The Language Environment enclave failed to initialize successfully. Check that the SDFJAUTH library is in the STEPLIB concatenation of the CICS region.

ERROR_CODE_UNRECOGNIZED
START_JVM returned an error that was not handled.

ERROR_LOCATING_MAIN_METHOD
An attempt to locate the main method within a setup or termination class has failed. An exception has been output to the standard error stream.

JNI_CREATE_NOT_FOUND
JNI Create has not been found. This error might occur because the JAVA_HOME value in the JVM profile does not specify the correct Java installation location.

JVMPROFILE_ERROR
An error occurred when processing the JVM profile. Additional diagnostic messages have been output to the standard error stream. The standard error stream is usually redirected to the location on zFS specified by the WORK_DIR parameter of the JVM profile. However, for early failures prior to redirection, the standard error stream might be located in SYSPRINT, or in the CICS log as a dynamically generated DD name.

OPEN_JVM_ERROR
An error occurred when opening the JVM DLL. This error might occur because the JAVA_HOME value in the JVM profile does not specify the correct Java installation location.

SETUP_CLASS_NOT_FOUND
A setup class specified in the JVM profile cannot be found. An exception has been output to the standard error stream.

SETUP_CLASS_TIMEDOUT
A setup class did not return in a reasonable amount of time and was therefore canceled.

STDOUT/STDERR_ACCESS_FAILED
An attempt to open the stdout or stderr stream for output has failed. The most likely reason is that the CICS job has read access only to the directory specified by WORK_DIR in the JVM profile.

TERMINATION_CLASS_NOT_FOUND
A termination class specified in the JVM profile cannot be found. An exception has been output to the standard error stream.

System action: CICS was unable to create the JVM and returns an error to the calling module.

User response: Examine reason code *msg_reason* to determine why the JVM creation failed and, if required, perform one of the following user actions:

ATTACH_JNI_THREAD_FAILED
Contact IBM Support.

CHANGE_DIRECTORY_CALL_FAILED
Check that the CICS job has read, write and execute access to the directory specified by WORK_DIR in the JVM profile.

CREATE_JVM_FAILED
Use the diagnostic messages output to the standard error stream to determine the cause of the problem.

ENCLAVE_INIT_FAILED
To determine the cause of the problem check SYSPRINT, or the CICS log, for error messages that are output by the Language Environment. It is likely that either SDFJAUTH has not been specified in STEPLIB, or there is not enough storage available to Language Environment.

ERROR_CODE_UNRECOGNIZED
Contact IBM Support.

ERROR_LOCATING_MAIN_METHOD
Use the exception in the standard error stream to determine the cause of the problem.

JNI_CREATE_NOT_FOUND
Check that the JAVA_HOME value in the JVM profile specifies the correct Java installation location.

JVMPROFILE_ERROR
Use the additional messages in the standard error stream to determine the cause of the problem. The messages that are output prior to the redirection can be found either in SYSPRINT or in a dynamically generated DD name in the CICS log.

OPEN_JVM_ERROR
Check that the JAVA_HOME value in the JVM profile specifies the correct Java installation location.

SETUP_CLASS_NOT_FOUND
Check the following

- The directory or archive containing the setup class is added to the classpath using the CLASSPATH_SUFFIX JVM Profile option.
- The setup class is fully qualified.

Use the exception output to the standard error stream, to determine the cause of the problem.

SETUP_CLASS_TIMEDOUT
Ensure your setup classes are not long running and return from the JVM within a reasonable time limit.

STDOUT/STDERR_ACCESS_FAILED
Check that the CICS job has read and write access to the directory specified by WORK_DIR in the JVM profile.

TERMINATION_CLASS_NOT_FOUND
Check the following

- The directory or archive containing the termination class is added to the classpath using the CLASSPATH_SUFFIX JVM Profile option.
- The termination class is fully qualified.

Use the exception output to the standard error stream, to determine the cause of the problem.

Module: DFHSJIN

XMEOUT Parameters: *date, time, applid, jvmserver, {1=JVMPROFILE_ERROR, 2=OPEN_JVM_ERROR, 3=JNI_CREATE_NOT_FOUND, 4=SETUP_CLASS_NOT_FOUND, 5=TERMINATION_CLASS_NOT_FOUND, 6=CREATE_JVM_FAILED, 7=CHANGE_DIRECTORY_CALL_FAILED, 8=STDOUT/STDERR_ACCESS_FAILED, 9=ERROR_LOCATING_MAIN_METHOD, 10=ATTACH_JNI_THREAD_FAILED, 11=SETUP_CLASS_TIMEDOUT, 12=ENCLAVE_INIT_FAILED, 20=ERROR_CODE_UNRECOGNIZED}*

Destination: CSMT

DFHSJ0211 *date time applid* **An exception has been thrown by the main method of a setup class, which was running in the JVM belonging to the JVMSERVER resource** *jvmserver***.**

Explanation: An exception has been thrown by the main method of a setup class, which was running in the JVM belonging to the JVMSERVER resource *jvmserver*. This exception occurred during the initialization of the JVM server.

System action: CICS writes the action to the standard error stream and continues with the initialization of the JVM server.

User response: Examine the exception that was thrown by the JVM to determine the cause of the problem. The exception is in the standard error stream.

Module: DFHSJIN

XMEOUT Parameters: *date, time, applid, jvmserver*

Destination: CSMT

DFHSJ0212 *date time applid* **An error occurred while terminating the JVM belonging to the JVMSERVER resource** *jvmserver***. Reason code** *{TERMINATION_CLASS_NOT_FOUND | ERROR_LOCATING_MAIN_METHOD | ERROR_CODE_UNRECOGNIZED | TERMINATION_CLASS_TIMED_OUT}***.**

Explanation: An error occurred when terminating the JVM belonging to the JVMSERVER resource *jvmserver*. The reason code provides further information about why the JVM failed to terminate correctly.

TERMINATION_CLASS_NOT_FOUND
A termination class that was specified in the JVM profile cannot be found. An exception is output to the standard error stream.

ERROR_LOCATING_MAIN_METHOD
An attempt to locate the main method a termination class has failed. An exception is output to the standard error stream.

ERROR_CODE_UNRECOGNIZED
TERMINATE_JVM returned an error that was not handled.

TERMINATION_CLASS_TIMED_OUT
A termination class that was specified in the JVM profile has not completed execution in the time allowed by CICS. Execution of the class was halted.

System action: CICS continues terminating the JVM and returns an error to the calling module.

User response: Examine reason code *msg_reason* to determine why the error occurred during JVM termination and, if required, perform one of the following user actions

TERMINATION_CLASS_NOT_FOUND
Check the following in the JVM profile:

- The directory or archive containing the termination class is added to the class path using the CLASSPATH_SUFFIX option.
- The termination class is fully qualified.

Use the exception output to the standard error stream, to determine the cause of the problem.

TERMINATION_CLASS_TIMED_OUT
Ensure that the classes specified in the JVM profile are not long running tasks and that they complete within a reasonable amount of time.

ERROR_LOCATING_MAIN_METHOD
Use the exception output to the standard error stream to determine the cause of the problem.

ERROR_CODE_UNRECOGNIZED
Contact IBM Support.

Module: DFHSJIN

XMEOUT Parameters: *date, time, applid, jvmserver, {1=TERMINATION_CLASS_NOT_FOUND, 2=ERROR_LOCATING_MAIN_METHOD, 3=ERROR_CODE_UNRECOGNIZED, 4=TERMINATION_CLASS_TIMED_OUT}*

Destination: CSMT

DFHSJ0213 *date time applid* **An exception has been thrown by the main method of a termination class, which was running in the JVM belonging to the JVMSERVER resource** *jvmserver***.**

Explanation: An exception has been thrown by the main method of a termination class, which was running in the JVM belonging to the JVMSERVER resource *jvmserver*. This exception occurred during the discard of the JVM server.

System action: CICS writes the action to the standard error stream and continues discarding the JVM server and terminating its JVM.

User response: Examine the exception that was thrown by the JVM to determine the cause of the problem. The exception is in the standard error stream.

Module: DFHSJIN

XMEOUT Parameters: *date, time, applid, jvmserver*

Destination: CSMT

DFHSJ0214 *date time applid* **A class in a JVM Server has invoked System.exit(). CICS will shut down immediately.**

Explanation: A class in a JVM Server has invoked the System.exit() method, which causes the JVM to shut down. CICS must immediately shut down to preserve data integrity.

System action: CICS takes a system dump, and shuts down immediately.

User response: Alter the Java class to return normally instead of invoking System.exit(). Alternatively, enable a Java security manager to return an exception when attempting to run a Java class invoking System.exit()

Module: DFHSJSC

XMEOUT Parameters: *date, time, applid*

Destination: Console and Transient Data Queue CSMT

DFHSJ0215 *date time applid* **The JVM Server** *jvmserver* **failed to initialize the OSGi framework. The JVM will be terminated.**

Explanation: The OSGi framework initialization has failed.

System action: The JVMSERVER resource is disabled.

User response: Check the JVM server log files for any error messages. The log files are in the JVM server working directory in zFS.

Module: DFHSJSC

XMEOUT Parameters: *date, time, applid, jvmserver*

Destination: CSMT

DFHSJ0501 *date time applid JVMProfile* **An attempt to obtain the CICS Wrapper class** *wrapper_name* **using the JNI function 'FindClass' has failed.**

Explanation: The CICS-JVM interface attempted to obtain a reference to the CICS Wrapper class *wrapper*, but was unsuccessful.

System action: The CICS transaction is abended with abend code ASJE.

User response: Verify that the CICS_HOME entry in JVMProfile *JVMProfile* is correct and that CICS has read permission to the HFS structure.

Check the contents of the STDERR file (as defined in the JVM profile) for the following Java security exception

```
java.security.AccessControlException
  access denied (java.lang.RuntimePermission
  loadLibrary.com_ibm_cics_server_DTC)
```

If the JVM security manager is active (the system property java.security.manager is specified in the JVM profile), check that the security policy grants permission to CICS. For further information about the JVM security policy see *Java Applications in CICS*

Module: DFHSJPJP

XMEOUT Parameters: *date, time, applid, JVMProfile, wrapper_name*

Destination: CSMT

DFHSJ0502 *date time applid JVMProfile* **Attempt to change the HFS working directory to** *pathname* **has failed. Runtime error message is** *errmsg*

Explanation: CICS was in the process of invoking a Java program. The CICS-JVM interface attempted to change the working directory to *pathname* as specified in the WORK_DIR environment variable contained in JVM profile *JVMProfile*. The change directory command failed and the runtime message *errmsg* appended to the

end of this message documents why the command failed.

System action: The CICS-JVM interface is unable to change to the specified directory to open the stdin, stdout and stderr streams. The CICS transaction is abended with abend code ASJF.

User response: Examine *errmsg* to determine why the change directory command failed. If necessary correct the setting of the WORK_DIR parameter in the JVM profile. Ensure that CICS has read, write and execute permission to the HFS directory identified in the WORK_DIR parameter.

Module: DFHSJCS

XMEOUT Parameters: *date, time,applid, JVMProfile, pathname,errmsg*

Destination: CSMT

DFHSJ0503 *date time applid JVMProfile* **Attempt to load DLL** *dllname* **has failed. Runtime error message is** *errmsg*

Explanation: The CICS-JVM interface attempted to load DLL *dllname*. An attempt to start a JVM failed and the runtime message *errmsg* appended to the end of this message documents why the DLL load attempt failed.

System action: The CICS transaction is abended with abend code ASJD.

User response: Examine *errmsg* to determine why the DLL load failed. There is probably an error in JVM profile *JVMProfile*. There might be further information in the JVM STDERR log.

Module: DFHSJCS

XMEOUT Parameters: *date, time, applid, JVMProfile, dllname, errmsg*

Destination: CSMT

DFHSJ0505 *date time applid* **Attempt to open jvmprofile** *filename* **has failed. Runtime error message is** *errmsg*

Explanation: The CICS-JVM interface attempted to open JVM profile *filename*. The open command failed and the runtime message *errmsg* appended to the end of this message documents why the command failed.

System action: CICS transaction is aborted with the INVREQ exception.

User response: Examine *errmsg* to determine why the open command failed.

Module: DFHSJPJP

XMEOUT Parameters: *date, time,applid, filename, errmsg*

Destination: CSMT

DFHSJ0506 *date time applid* **The environment variable** *env_var* **found in JVM Profile** *JVMprof* **did not have a value specified.**

Explanation: The environment variable *env_var* specified in JVM profile *JVMProf* is incorrect because an invalid value or no value was specified for it.

System action: The environment variable is ignored.

User response: Correct the environment variable in the failing JVM profile.

Module: DFHSJCS

XMEOUT Parameters: *date, time,applid, env_var, JVMprof*

Destination: CSMT

DFHSJ0507 *date time applid JVMProfile* **The option** *option* **is not recognized, and has been ignored.**

Explanation: The specified option *option* is not recognized and has been ignored in JVM profile *JVMProfile*.

System action: None.

User response: Correct or remove the specified option.

Module: DFHSJPJP

XMEOUT Parameters: *date, time,applid, JVMProfile, option*

Destination: CSMT

DFHSJ0508 *date time applid JVMProfile* **The maximum number of JVM options has been exceeded. Option** *option* **has been ignored.**

Explanation: The option *option* has been ignored because the maximum number of options has been exceeded for JVM profile *JVMProfile*.

System action: None.

User response: The maximum number of JVM options CICS can pass to the JVM has been exceeded. Review the options specified in member *JVMProfile* and the associated JVM properties file. Remove any that are not required.

Module: DFHSJPJP

XMEOUT Parameters: *date, time,applid, JVMProfile, option*

Destination: CSMT

DFHSJ0509 *date time applid JVMProfile* **Attempt to open JVM system properties file** *filename* **has failed. Runtime error message is** *errmsg*

Explanation: The CICS-JVM interface attempted to

open the JVM system properties file *filename* for JVM profile *JVMProfile* held on HFS. The open command failed and the runtime message *errmsg* appended to the end of this message documents why the command failed.

System action: CICS transaction is aborted with the INVREQ exception.

User response: Examine *errmsg* to determine why the open command failed.

Module: DFHSJPJP

XMEOUT Parameters: *date, time, applid, JVMProfile, filename, errmsg*

Destination: CSMT

DFHSJ0510 *date time applid* **Attempt to fetch user-replaceable module DFHJVMAT has failed.**

Explanation: The CICS-JVM interface attempted to load the user-replaceable module DFHJVMAT and failed.

System action: The CICS transaction is abended with abend code ASJG.

User response: Verify that DFHJVMAT is included in SDFHAUTH.

Module: DFHSJIN

XMEOUT Parameters: *date, time,applid*

Destination: CSMT

DFHSJ0511 *date time applid JVMProfile* **Attempt to open** *filename* **in work directory** *dirname* **for output has failed. Runtime error message is** *errmsg*

Explanation: The CICS-JVM interface attempted to open for output the stdout or stderr file specified or defaulted in JVM profile *JVMProfile* for the Java program. The open failed and the runtime message *errmsg* appended to the end of this message documents why.

System action: The CICS-JVM interface is unable to open the specified file. Execution of the transaction continues.

User response: Examine *errmsg* to determine why the open failed. The most likely reason is that the CICS job only has read access to the directory specified in environment variable WORK_DIR in JVM profile for this program. If necessary, change WORK_DIR to a directory to which CICS has write access.

Module: DFHSJCS

XMEOUT Parameters: *date, time, applid, JVMProfile, filename, dirname, errmsg*

Destination: CSMT

DFHSJ0512 *date time applid JVMProfile* **Unexpected end of file while concatenating lines in system properties file.**

Explanation: CICS was attempting to process the system properties file specified by JVM profile *JVMProfile* for the Java program. It unexpectedly encountered a line concatenation character on the last line of the file.

System action: CICS ignores the erroneous line concatenation character and processing continues, setting the property it had so far constructed.

User response: Remove the erroneous line concatenation character from the final line of the system properties file.

Module: DFHSJCS

XMEOUT Parameters: *date, time,applid, JVMProfile*

Destination: CSMT

DFHSJ0514 *date time applid JVMProfile* **Problem encountered on line** *line_number* **of the JVM profile:** *{Unexpected EOF while concatenating lines | Concatenation too long}***.**

Explanation: CICS encountered problems processing JVM profile *JVMProfile*. The line number where the problem occurred within the file is given, together with a reason why CICS had problems.

System action: None.

User response: Rectify the problem described in the message.

Module: DFHSJPJP

XMEOUT Parameters: *date, time,applid, JVMProfile, line_number,{1=Unexpected EOF while concatenating lines,2=Concatenation too long}*

Destination: CSMT

DFHSJ0515 *date time applid JVMProfile* **Problem encountered on line** *line_number* **of the JVM system properties file** *{Unexpected EOF while concatenating lines | Concatenation too long | CICS ignoring this tm classpath setting | CICS ignoring this java.class.path setting}***.**

Explanation: CICS encountered problems processing the JVM system properties file specified in JVM profile *JVMProfile*. The line number where the problem occurred within the file is given, together with a reason why CICS had problems.

System action: None.

User response: Rectify the problem described in the message.

Module: DFHSJPJP

XMEOUT Parameters: *date, time,applid, JVMProfile, line_number,{1=Unexpected EOF while concatenating lines,2=Concatenation too long, 3=CICS ignoring this tm classpath setting, 4=CICS ignoring this java.class.path setting}*

Destination: CSMT

DFHSJ0516 *date time applid JVMProfile* **An attempt to create a Java Virtual Machine using the JNI has failed. See the JVM's STDERR log for further details.**

Explanation: A CICS request to create a Java Virtual Machine (JVM) using the Java Native Interface (JNI) has failed for JVM profile *JVMProfile*.

System action: SJ domain requests a system dump, which may or may not appear depending on the system dump table settings for code SJ0516. The CICS transaction is abended with abend code ASJ1.

User response: It is probable that the JVM will have written further messages to the STDERR destination specified in the JVM profile. Review the STDERR log for such information and also refer to the explanation for the ASJ1 abend code.

Module: DFHSJCS

XMEOUT Parameters: *date, time,applid, JVMProfile*

Destination: CSMT

DFHSJ0517 *date time applid* **Required environment variable** *env_var* **is missing from JVM Profile** *JVMprof***.**

Explanation: CICS is attempting to execute a Java program whose definition specified JVM profile *JVMProf*. Environment variable *env_var* is required for successful execution of this program but is missing from this JVM profile.

System action: The transaction is abended with abend code ASJC or ASJJ depending on which environment variable is missing.

User response: Add the environment variable to the failing JVM profile.

Module: DFHSJCS

XMEOUT Parameters: *date, time, applid, env_var, JVMprof*

Destination: CSMT

DFHSJ0518 *date time applid* **An attempt to obtain the JNI extension interface pointer for a JVM, has failed. A CICS request to get a pointer to the Java Native Interface (JNI) Extension Interface for a Java Virtual Machine (JVM) has failed.**

System action: SJ domain requests a system dump, which may or may not appear depending on the system dump table settings for code SJ0518. The CICS transaction is abended with abend code ASJ1.

User response: See the actions described for the ASJ1 abend.

Module: DFHSJCS

XMEOUT Parameters: *date, time,applid*

Destination: CSMT

DFHSJ0521 *date time applid* **Option TMPREFIX found in JVM profile** *jvmprof* **should only be used under guidance from IBM.**

Explanation: The value specified for the JVM profile option TMPREFIX is used ahead of the CICS-supplied jar files, so classes in TMPREFIX may be used in preference to the installed CICS classes. This option should only be used under guidance from IBM.

System action: CICS continues to process the rest of the JVM profile.

User response: If this option was not requested by IBM, use the -Dibm.jvm.shareable.application.class.path or CLASSPATH_SUFFIX option instead.

Module: DFHSJCS

XMEOUT Parameters: *date, time,applid, jvmprof*

Destination: CSMT

DFHSJ0522 *date time applid* **Deprecated option TMSUFFIX found in JVM profile** *jvmprof***. Value will be added to the system class path after the CICS-supplied jar files.**

Explanation: The JVM profile option TMSUFFIX has been deprecated. The Trusted Middleware class path is no longer used.

System action: The value specified for TMSUFFIX is added to the system class path after the CICS-supplied jar files.

User response: Replace the TMSUFFIX option in the JVM profile with the CLASSPATH_SUFFIX option.

Module: DFHSJCS

XMEOUT Parameters: *date, time,applid, jvmprof*

Destination: CDEP

DFHSJ0523 *date time applid* **Deprecated option CLASSPATH found in JVM profile** *jvmprof***. Use CLASSPATH_SUFFIX instead.**

Explanation: The JVM profile option CLASSPATH has

been replaced by the options CLASSPATH_PREFIX and CLASSPATH_SUFFIX.

System action: The value specified for CLASSPATH is added to the class path after any value specified for CLASSPATH_PREFIX, and before any value specified for CLASSPATH_SUFFIX.

User response: Replace the CLASSPATH option in the JVM profile with CLASSPATH_SUFFIX.

Module: DFHSJPJP

XMEOUT Parameters: *date, time,applid, jvmprof*

Destination: CDEP

DFHSJ0524 *date time applid* **Obsolete JVM option** *option* **found in JVM profile** *profile***. Specify REUSE=YES or REUSE=NO. The JVM cannot be started.**

Explanation: The resettable mode of the JVM is obsolete and is no longer supported. CICS cannot start a resettable JVM.

System action: The CICS transaction is abended with abend code ASJR.

User response: If Xresettable=YES was specified in the JVM profile, or -Xresettable=YES was specified in the JVM properties file, remove it. If REUSE=RESET was specified in the JVM profile, change it to REUSE=YES to start a continuous JVM, or REUSE=NO to start a single-use JVM.

Module: DFHSJPJP

XMEOUT Parameters: *date, time,applid, option, profile*

Destination: CSMT

DFHSJ0525 *date time applid* **Obsolete JVM option Xresettable found in JVM profile** *profile* **has been ignored.**

Explanation: The Xresettable option was found during JVM profile processing. The option is obsolete and is ignored. If no other valid REUSE option is found, CICS will start a reusable JVM.

System action: JVM profile processing continues.

User response: Remove the Xresettable option from the JVM profile. If a single-use JVM is required, specify the REUSE=NO option.

Module: DFHSJPJP

XMEOUT Parameters: *date, time,applid, profile*

Destination: CSMT

DFHSJ0526 *date time applid* **Obsolete option** *option* **found in JVM properties file** *jvmprops* **has been ignored.**

Explanation: An obsolete option relating to the resettable JVM was found in the JVM properties file.

System action: JVM properties file processing continues.

User response: Remove the obsolete option from the JVM properties file.

Module: DFHSJPJP

XMEOUT Parameters: *date, time,applid, option, jvmprops*

Destination: CSMT

DFHSJ0527 *date time applid* **Obsolete option** *option* **found in JVM profile** *jvmprof* **has been ignored.**

Explanation: An obsolete option related to the resettable JVM was found during JVM profile processing.

System action: JVM profile processing continues.

User response: Remove the obsolete option from the JVM profile.

Module: DFHSJPJP

XMEOUT Parameters: *date, time,applid, option, jvmprof*

Destination: CSMT

DFHSJ0528 *date time applid* **Deprecated option MAX_RESETS_TO_GC found in JVM Profile** *JVMprof***. Use GC_HEAP_THRESHOLD instead.**

Explanation: The deprecated MAX_RESETS_TO_GC option was found during JVM profile processing.

System action: JVM profile processing continues. The default value for GC_HEAP_THRESHOLD is assumed if it is not specified.

User response: Remove the option from the JVM profile, or replace it with the GC_HEAP_THRESHOLD option.

Module: DFHSJPJP

XMEOUT Parameters: *date, time,applid, JVMprof*

Destination: CDEP

DFHSJ0529 *date time applid* **Value** *value* **for GC_HEAP_THRESHOLD found in JVM Profile** *JVMprof* **must be between 50 and 100.**

Explanation: The value specified for the GC_HEAP_THRESHOLD option is not in the valid range of 50 to 100.

System action: JVM profile processing continues. The default value of 85 for GC_HEAP_THRESHOLD is used.

User response: Correct the value specified for the GC_HEAP_THRESHOLD option.

Module: DFHSJPJP

XMEOUT Parameters: *date, time,applid, value, JVMprof*

Destination: CSMT

DFHSJ0530 *date time applid* **Value** *value* **for IDLE_TIMEOUT found in JVM profile** *profile* **must be between 0 and 10080.**

Explanation: The value specified in the JVM profile option IDLE_TIMEOUT is invalid. The value must be specified as a number of minutes from 0 to 10080 (7 days).

System action: The default IDLE_TIMEOUT value of 30 is used instead of the specified value.

User response: Correct the value specified for the IDLE_TIMEOUT option.

Module: DFHSJPJP

XMEOUT Parameters: *date, time,applid, value, profile*

Destination: CSMT

DFHSJ0531 *date time applid* **JAVA_HOME directory** *directory* **specified in JVM profile** *jvmprof* **failed to open. The JVM cannot be started. Runtime error message is** *errmsg***.**

Explanation: The directory specified in the JVM profile option JAVA_HOME could not be opened. The opendir command failed and the runtime error message *errmsg*, appended to the end of this message, documents why the command failed.

System action: The task is abended with abend code ASJJ.

User response: Correct the directory name specified for the JAVA_HOME option, or correct the access permissions to the directory.

Module: DFHSJPJP

XMEOUT Parameters: *date, time,applid, directory, jvmprof, errmsg*

Destination: CSMT

DFHSJ0532 *date time applid* **Insufficient permission to access the JAVA_HOME directory** *directory* **specified in the JVM profile** *jvmprof***. The JVM cannot be started.**

Explanation: The directory specified in the JVM profile option JAVA_HOME could not be opened because CICS does not have permission to search some component of the path, or does not have read permission on the directory itself.

System action: The task is abended with abend code ASJJ.

User response: Ensure that CICS has at least read permission for all directories in the path specified for JAVA_HOME.

Module: DFHSJPJP

XMEOUT Parameters: *date, time,applid, directory, jvmprof*

Destination: CSMT

DFHSJ0533 *date time applid* **JAVA_HOME directory** *directory* **specified in JVM profile** *jvmprof* **does not contain a valid Java installation. The JVM cannot be started.**

Explanation: The JAVA_HOME directory does not contain a correctly installed Java runtime.

System action: The task is abended with abend code ASJJ.

User response: Ensure that the JAVA_HOME option specifies the correct path to the Java runtime. If it does, then check to see if the path contains a valid Java installation by looking for a JDK_INSTALL_OK file for the correct level of Java.

Module: DFHSJPJP

XMEOUT Parameters: *date, time,applid, directory, jvmprof*

Destination: CSMT

DFHSJ0534 *date time applid* **Deprecated option** *option* **found in JVM profile** *jvmprof* **will be ignored. The value of the USSHOME system initialization parameter will be used instead.**

Explanation: The JVM profile options CICS_DIRECTORY and CICS_HOME are no longer required, and will be ignored.

System action: The value specified for the USSHOME system initialization parameter will be used instead of the option in the JVM profile.

User response: Remove any CICS_DIRECTORY or CICS_HOME options from the JVM profile.

Module: DFHSJPJP

XMEOUT Parameters: *date, time,applid, option, jvmprof*

Destination: CDEP

DFHSJ0535 *date time applid* **The directory** *directory* **specified in the** *parm* **failed to open. The JVM cannot be started. Runtime error message is** *errmsg***.**

Explanation: The directory specified in the USSHOME

system initialization parameter, or the CICS_HOME or CICS_DIRECTORY JVM profile option could not be opened. The opendir command failed and the runtime error message *errmsg*, appended to the end of this message, documents why the command failed.

System action: The task is abended with abend code ASJC.

User response: Check the specified directory name is correct for USSHOME, CICS_HOME or CICS_DIRECTORY. Ensure that CICS has the correct access permissions to the directory.

Module: DFHSJPJP

XMEOUT Parameters: *date, time,applid, directory, parm, errmsg*

Destination: CSMT

DFHSJ0536 *date time applid* **Insufficient permission to access the directory** *directory* **specified in the** *parm***. The JVM cannot be started.**

Explanation: The directory specified in the USSHOME system initialization parameter or the CICS_HOME or CICS_DIRECTORY option of the JVM profile could not be opened because CICS does not have permission to search some component of the path, or does not have read permission on the directory itself.

System action: The task is abended with abend code ASJC.

User response: Ensure that CICS has at least read permission for all directories in the path specified for USSHOME, CICS_HOME or CICS_DIRECTORY.

Module: DFHSJPJP

XMEOUT Parameters: *date, time,applid, directory, parm*

Destination: CSMT

DFHSJ0537 *date time applid* **The version of CICS Java support in the directory** *directory* **specified in the** *parm* **is incorrect. The JVM cannot be started.**

Explanation: The directory specifed in the USSHOME system initialization parameter or the CICS_HOME or CICS_DIRECTORY option of the JVM profile does not contain the correct version of CICS Java support.

System action: The task is abended with abend code ASJC.

User response: Ensure that the USSHOME system initialization parameter or the CICS_HOME or CICS_DIRECTORY option in the JVM profile specifies the correct path to the Java support for this release of CICS. If it does, then check to see if the directory contains a valid CICS installation by looking for a CICS_INSTALL_OK file for the current release.

Module: DFHSJPJP

XMEOUT Parameters: *date, time,applid, directory, parm*

Destination: CSMT

DFHSJ0538 *date time applid* **Deprecated option LIBPATH found in JVM profile** *jvmprof***. Use LIBPATH_SUFFIX instead.**

Explanation: The JVM profile option LIBPATH has been replaced by the options LIBPATH_PREFIX and LIBPATH_SUFFIX. LIBPATH_PREFIX should only be used if requested by IBM support.

System action: The value specified for LIBPATH will be added to the library path after any value specified for LIBPATH_PREFIX, and before any value specified for LIBPATH_SUFFIX.

User response: Replace the LIBPATH option in the JVM profile with LIBPATH_SUFFIX.

Module: DFHSJPJP

XMEOUT Parameters: *date, time,applid, jvmprof*

Destination: CDEP

DFHSJ0539 *date time applid* **Deprecated option** *option* **found in JVM profile** *profile***. Use** *option2* **instead.**

Explanation: The specified JVM profile option in the format shown has been deprecated.

System action: The option is passed to the JVM in the format displayed in the message.

User response: Replace the deprecated option in the JVM profile with the preferred option. Information about JVM options can be found in the *IBM SDK for z/OS platforms, Java Technology Edition, SDK Guide*.

Module: DFHSJPJP

XMEOUT Parameters: *date, time, applid, option, profile, option2*

Destination: CDEP

DFHSJ0540 *date time applid* **The USSHOME System Initialization Parameter is set to NONE. CICS will attempt to use the value of CICS_HOME from the JVM profile** *jvmprof* **instead.**

Explanation: The **USSHOME** system initialization parameter is set to NONE.

System action: CICS uses the value specified for CICS_HOME or CICS_DIRECTORY in the JVM profile. If neither of these is specified, the JVM does not start.

User response: Ensure that the **USSHOME** system initialization parameter, the CICS_HOME option, or the CICS_DIRECTORY option in the JVM profile specifies the correct path to the Java support for this release of CICS.

Module: DFHSJPJP

XMEOUT Parameters: *date, time, applid, jvmprof*

Destination: CSMT

DFHSJ0600 W *date time applid userid termid tranid program name* **256 unclosed FileBrowse browse sessions exist for task** *trannum***.**

Explanation: 256 com.ibm.cics.server.FileBrowse sessions have been activated without being closed for the same CICS task. CICS is unable to determine whether these FileBrowse sessions are currently being used, or have ended due to an implicit SYNCPOINT.

System action: Subsequent FileBrowse sessions will reuse existing REQID values. This might result in new FileBrowse sessions joining an existing active FileBrowse session.

User response: Modify the calling application to call the end() method on the FileBrowse objects when they are no longer needed.

Module: **XMEOUT Parameters:** *date, time, applid, userid, termid, tranid, program name, trannum*

Destination: CSMT

DFHSJ0900 *date time applid* **Illegal Java version. CICS requires at least Java version** *min_ver* **but has found Java version** *current_ver* **.**

Explanation: CICS has detected that the JVM does not meet the minimum version requirement for this version of CICS. The minimum version of Java required is *min_ver*. The version found at runtime is *current_ver*.

System action: The task abends with abend code ASJJ.

User response: Reconfigure the CICS JVM profile to point to a newer version of Java.

Module: DFHSJCS com.ibm.cics.server.Wrapper

XMEOUT Parameters: *date, time,applid, min_ver, current_ver*

Destination: CSMT

DFHSJ0901I *date time applid* **Current version of Java is:** *current_ver* **.**

Explanation: The current version of Java is displayed for informational purposes only. This message can be suppressed by setting the following property in the CICS JVM properties file com.ibm.cics.showJavaVersion=false .

System action: Processing continues.

User response: No action required.

Module: com.ibm.cics.server.Wrapper

XMEOUT Parameters: *date, time,applid, current_ver*

Destination: CSMT

DFHSJ0902 *date time applid userid termid tranid program name* **Uncaught exception from application.**

Explanation: The jcics Wrapper class has caught an InvocationTargetException. This occurs when the application throws, or doesn't catch, an exception. Details of the application exception are given in accompanying message DFHCZ0358.

System action: The system writes this message to the TD queue CCZM.

User response: Correct the problem and rerun the task.

Module: DFJCICS (com.ibm.cics.server.Wrapper.java)

XMEOUT Parameters: *date, time,applid, userid, termid, tranid, program name*

Destination: CCZM

DFHSJ0903 *date time applid userid termid tranid program name* **Exception** *exception* **occurred invoking main method in class** *className***.**

Explanation: The jcics Wrapper class caught exception *exception* trying to invoke the main method in class *className*.

System action: An exception trace entry is made and the task is abnormally terminated.

User response: Correct the problem and rerun the task.

Module: DFJCICS (com.ibm.cics.server.Wrapper.java)

XMEOUT Parameters: *date, time,applid, userid, termid, tranid, program name, exception, className*

Destination: CCZM

DFHSJ0904 *date time applid userid termid tranid program name* **Exception** *exception* **occurred creating object reference for class** *className***.**

Explanation: An unexpected RuntimeException or Error was thrown that has been caught in the CICS Java Wrapper class.

System action: An exception trace entry is made and the task is abnormally terminated.

User response: Correct the problem and reissue the task.

Module: com.ibm.cics.server.Wrapper

XMEOUT Parameters: *date, time,applid, userid, termid, tranid, program name, exception, className*

Destination: CCZM

DFHSJ0905 *date time applid userid termid tranid program name* **Class name** *className* **is invalid.**

Explanation: The class name *className* is invalid. This is often caused by an erroneous leading '.' or '/' character.

System action: An exception trace entry is made and the task is abnormally terminated.

User response: Correct the problem and rerun the task.

Module: com.ibm.cics.server.Wrapper

XMEOUT Parameters: *date, time,applid, userid, termid, tranid, program name, className*

Destination: CCZM

DFHSJ0906 *date time applid* **The CICS Java Wrapper class failed to find the requested plugin** *plugin***.**

Explanation: The CICS JVM attempted to instantiate the requested plugin class *plugin* but the JVM could not find this class on the trusted middleware classpath.

System action: The plugin is not installed.

User response: Examine the value set for the TMSUFFIX in the JVM profile being used by the current program. The path to the requested plugin must be present as part of the TMSUFFIX.

Module: com.ibm.cics.server.Wrapper

XMEOUT Parameters: *date, time,applid, plugin*

Destination: CSMT

DFHSJ0907 *date time applid tranidprogram name trannum userid termid* **The CICS Java Wrapper plugin** *plugin* **has thrown exception** *exception***.**

Explanation: The CICS JVM Java Wrapper class caught an exception thrown from plugin *plugin*.

System action: The JVM attempts to continue processing the user application.

User response: Either contact the *plugin* vendor for further assistance or catch the exception in the body of your plugin.

Module: com.ibm.cics.server.Wrapper

XMEOUT Parameters: *date, time,applid, tranid, program name,trannum, userid, termid, plugin, exception*

Destination: CSMT

DFHSJ0910 *date time applid userid* **JVMSERVER** *jvmserver* **has been created.**

Explanation: A JVMSERVER has been created and is now in the ENABLING state. It is not available for use until it has reached ENABLED state.

System action: Processing continues. The JVMSERVER will complete installation shortly.

User response: None.

Module: DFHSJJS

XMEOUT Parameters: *date, time, applid, userid, jvmserver*

Destination: CSMT

DFHSJ0911 *date time applid userid* **JVMSERVER** *jvmserver* **was not created because** *{there is insufficient storage. | there is a directory domain error. | a lock cannot be obtained. | there is a duplicate resource error. | it is a duplicate of one that already exists.}*

Explanation: JVMSERVER *JVMSERVER* was not created. This error can occur for various reasons. Details are given in the message.

System action: The JVMSERVER is not created.

User response: Correct the reported problem and try again.

Module: DFHSJJS

XMEOUT Parameters: *date, time, applid, userid, jvmserver, {1=there is insufficient storage., 2=there is a directory domain error., 3=a lock cannot be obtained., 4=there is a duplicate resource error., 5=it is a duplicate of one that already exists.}*

Destination: CSMT

DFHSJ0912 *date time applid userid* **JVMSERVER** *jvmserver* **was successfully discarded.**

Explanation: The JVMSERVER was successfully discarded and is no longer available for use.

System action: Processing continues.

User response: None.

Module: DFHSJJS

XMEOUT Parameters: *date, time, applid, userid, jvmserver*

Destination: CSMT

DFHSJ0913 *date time applid userid* **JVMSERVER** *jvmserver* **is being discarded.**

Explanation: A JVMSERVER resource is discarding but cannot complete at this time as in-flight work is outstanding is outstanding.

System action: CICS will discard the JVMSERVER

resource when the in-flight activity has completed.

User response: None.

Module: DFHSJJS

XMEOUT Parameters: *date, time, applid, userid, jvmserver*

Destination: CSMT

DFHSJ0914 E *date time applid userid* **JVMSERVER** *jvmserver* **is DISABLED because** *{the JVM server was not found. | CICS is not authorized to read the JVM profile. | the CJSR transaction could not be attached. | there is insufficient storage available. | the activate mode failed. | the add of the TP tcb failed. | the change mode to the TP tcb failed. | the Language Environment Enclave was not created. | there was a runtime options failure. | there was a failure updating the JVMProfile table. | there were insufficient threads available.}*

Explanation: The JVMSERVER failed to complete initialization.

System action: The JVMSERVER has been put into the DISABLED state.

User response: Check that the CICS region ID has permission to access the JVM profile and the LERUNOPTS program. Refer to the message for a more specific reason for failure.

If the problem persists you might need to use the trace facility to determine the cause of the problem.

Module: DFHSJJS

XMEOUT Parameters: *date, time, applid, userid, jvmserver, {1=the JVM server was not found., 2=CICS is not authorized to read the JVM profile., 3=the CJSR transaction could not be attached., 4=there is insufficient storage available., 5=the activate mode failed., 6=the add of the TP tcb failed., 7=the change mode to the TP tcb failed., 8=the Language Environment Enclave was not created., 9=there was a runtime options failure., 10=there was a failure updating the JVMProfile table., 11=there were insufficient threads available.}*

Destination: CSMT

DFHSJ0915 *date time applid userid* **JVMSERVER** *jvmserver* **is now ENABLED and is ready for use.**

Explanation: The JVMSERVER has completed initialization and is ready for use.

System action: Processing continues.

User response: None.

Module: DFHSJJS

XMEOUT Parameters: *date, time, applid, userid, jvmserver*

Destination: CSMT

DFHSJ0916 W *date time applid userid* **the requested thread limit for JVMSERVER** *jvmserver* **exceeds the maximum available. The thread limit is set to the maximum available.**

Explanation: The requested THREADLIMIT value on the JVMSERVER resource exceeds the available number of threads.

System action: The THREADLIMIT value on the JVMSERVER resource has been set to the maximum value of threads that are currently available in the CICS region.

User response: Check that the new thread limit is acceptable. If the new value is not acceptable, the only option is to reduce the THREADLIMIT value of other JVMSERVER resources in the CICS region and attempt the update again.

Module: DFHSJJS

XMEOUT Parameters: *date, time, applid, userid, jvmserver*

Destination: CSMT

DFHSJ0917 *date time applid userid* **JVMSERVER** *jvmserver* **is DISABLED.**

Explanation: The JVMSERVER is disabled.

System action: The JVMSERVER has been put into the DISABLED state.

User response: None

None

Module: DFHSJJS

XMEOUT Parameters: *date, time, applid, userid, jvmserver*

Destination: CSMT

DFHSJ0918 *date time applid userid* **JVMSERVER** *jvmserver* **is being disabled.**

Explanation: A JVMSERVER resource is disabling but cannot complete at this time as in-flight work is outstanding.

System action: CICS will disable the JVMSERVER resource when the in-flight activity has completed.

User response: None.

Module: DFHSJJS

XMEOUT Parameters: *date, time, applid, userid, jvmserver*

Destination: CSMT

DFHSJ0919 I *date time applid userid* **JVMSERVER** *jvmserver* **is processing any queued OSGi bundles.**

Explanation: The JVM Server is processing any OSGi bundles that were previously installed.

System action: Processing continues.

User response: None.

Module: XMEOUT Parameters: *date, time, applid, userid, jvmserver*

Destination: CSMT

DFHSJ1001 *date time applid userid* **An attempt to attach a thread to JVMSERVER** *jvmserver* **has failed. Return code:** *return_code***.**

Explanation: An attempt to attach a JNI thread to the JVM belonging to the JVMSERVER *jvmserver* has failed with the JNI return code *return_code*.

System action: CICS was unable to run the specified class in the JVMSERVER and returns an error to the calling module.

User response: Contact IBM Support.

Module: DFHSJTHN

XMEOUT Parameters: *date, time, applid, userid, jvmserver, return_code*

Destination: CSMT

DFHSJ1002 *date time applid userid* **The class** *classname* **that was specified to be run in JVMSERVER** *jvmserver* **cannot be found.**

Explanation: The class *classname* that was specified to run in JVM server *jvmserver* cannot be found. An exception is output to the standard error stream.

System action: CICS was unable to run the specified class in the JVM server and returns an error to the calling module.

User response: Perform the following checks:

- Ensure the PROGRAM resource contains the fully-qualified class name and points to the correct JVM server.
- If the class is in an OSGi bundle, ensure that the OSGi bundle is in the STARTING or ACTIVE state. The CICS-MainClass manifest entry must specify the class.
- If an application is using the linkable interface, ensure the directory or archive containing the class has been added to the class path. The JVM profile for the JVM server must include the CLASSPATH_SUFFIX option.

Use the information in the standard error stream to determine the cause of the problem.

Module: DFHSJSC

XMEOUT Parameters: *date, time, applid, userid, classname, jvmserver*

Destination: CSMT

DFHSJ1003 *date time applid userid* **An attempt to locate the** *method_name* **method in class** *classname* **has failed, for JVMSERVER** *jvmserver***.**

Explanation: An attempt to locate the *method_name* method within the class *classname* has failed for JVMSERVER *jvmserver*. An exception is output to the standard error stream.

System action: CICS was unable to run the specified method of the given class in the JVMSERVER and returns an error to the calling module.

User response: Use the exception output from the standard error stream to determine the cause of the problem.

Module: DFHSJTHN

XMEOUT Parameters: *date, time, applid, userid, method_name, classname, jvmserver*

Destination: CSMT

DFHSJ1004 *date time applid userid* **An exception has been thrown by the** *method_name* **method of class** *classname* **running in JVMSERVER** *jvmserver***. Exception '***exception***'.**

Explanation: An exception has been thrown by the *method_name* of the class *classname*, which was running in the JVM belonging to the JVMSERVER resource *jvmserver*.

System action: CICS writes the exception to the standard error stream and returns an error to the calling module.

User response: Examine the exception that was thrown by the JVM to determine the cause of the problem. The exception is in the standard error stream.

Module: DFHSJSC

XMEOUT Parameters: *date, time, applid, userid, method_name, classname, jvmserver, exception*

Destination: CSMT

DFHSJ1005 *date time applid userid* **An attempt to detach a thread from JVMSERVER** *jvmserver* **has failed. Return code:** *return_code***.**

Explanation: An attempt to detach a JNI thread from the JVM belonging to the JVMSERVER *jvmserver* has failed with the JNI return code *return_code*.

System action: CICS returns an error to the calling module.

User response: Contact IBM Support.

Module: DFHSJTHN

XMEOUT Parameters: *date, time, applid, userid, jvmserver, return_code*

Destination: CSMT

DFHSJ1006 E *date time applid userid* **An attempt to attach to JVMSERVER** *jvmserver* **has failed because** *{the channel name used is invalid | the JVMSERVER name is missing | the JVMSERVER name is too long | the userclass name is missing | the user channel is invalid | the XML in the PIPELINE configuration file is invalid | the JVMSERVER does not exist | the JVMSERVER is not enabled | the wrapper class cannot be found | the transaction abended | the attach of the thread failed | the wrapper method was not found | the detach of the thread failed | the JVM threw an exception | the DFH-HANDLERPLIST container is missing | the thread was forced to terminate abnormally | the thread could not be created | the JVMSERVER failed to start the OSGi service}***.**

Explanation: An attempt to attach to a JVMSERVER through DFHSJJI failed. This message can be issued when a Java PIPELINE is installed or used, or when a program calls DFHSJJI directly.

System action: An error response is passed back to the caller of DFHSJJI.

User response: Consider the error code. If the message indicates a configuration error, make the appropriate correction.

If the error indicates a failure to access the 'wrapper' class, this might indicate that an OSGi-enabled JVM server has been used by mistake. Add JAVA_PIPELINE=YES to the JVM profile of the JVM server.

If the message indicates a failure, review any other messages issued by CICS for further information. If no other error messages were issued, locate the stderr destination of the JVM for further details.

Check that the parameters passed to DFHSJJI are valid and that the target JVMSERVER is enabled. If an application running in the JVMSERVER failed, locate the diagnostics for that problem.

If the problem persists, you might need to use the trace facility to determine the cause of the problem.

Module: DFHSJJI

XMEOUT Parameters: *date, time,applid, userid, jvmserver, {1=the channel name used is invalid, 2=the JVMSERVER name is missing, 3=the JVMSERVER name is too long, 4=the userclass name is missing, 5=the user channel is invalid, 6=the XML in the PIPELINE configuration file is invalid, 51=the JVMSERVER does not exist, 52=the JVMSERVER is not enabled, 53=the wrapper class cannot be found, 54=the transaction abended, 55=the attach of the thread failed, 56=the wrapper method was not found, 57=the detach of the thread failed, 58=the JVM threw an exception, 59=the DFH-HANDLERPLIST container is missing, 60=the thread was forced to terminate abnormally, 61=the thread could not be created, 62=the JVMSERVER failed to start the OSGi service}*

Destination: CSMT

DFHSJ1007 W *date time applid* **JVMSERVER** *jvmserver* **is being disabled by CICS because it is in an inconsistent state.**

Explanation: JVMSERVER *jvmserver* is being disabled by CICS because it is in an inconsistent state. CICS can disable the JVMSERVER resource for different reasons. For example, a 0Cx abend occurs in user JNI code, a 0Cx abend occurs because of an OutOfMemoryError, or a 0Cx abend occurs in a JVM thread.

System action: CICS has detected that an abend has left the JVM in an inconsistent state. CICS disables the JVMSERVER resource with the PHASEOUT option to allow existing work in the JVM to complete where possible and prevent new work from using the JVM. After the JVMSERVER is successfully disabled, message DFHSJ1008 is issued. CICS attempts to re-enable the resource to create a new JVM.

User response: Review the JVM output and the CICS logs to determine the cause of the abend. For an abend in user JNI code, correct the JNI source code. For an OutOfMemoryError, the JVM might be configured with a maximum heap or stack size that is too small or the error might occur when a Java program has a memory leak. Use standard JVM monitoring tools to help determine the cause. For an 0Cx in a JVM thread, contact IBM Support.

Module: DFHSJTH

XMEOUT Parameters: *date, time, applid, jvmserver*

Destination: CSMT

DFHSJ1008 W *date time applid* **CICS is enabling JVMSERVER** *jvmserver* **after successfully disabling the resource.**

Explanation: CICS is enabling JVMSERVER *jvmserver* after successfully disabling the resource. This message follows DFHSJ1007.

System action: CICS enables the JVMSERVER that it successfully disabled.

User response: To find out why CICS disabled the JVMSERVER resource, see message DFHSJ1007.

Module: DFHSJJS

XMEOUT Parameters: *date, time, applid, jvmserver*

Destination: CSMT

DFHSJ1100 *date time applid* **An attempt to install an OSGi bundle into JVM server** *jvmserver* **has failed. OSGi bundle symbolic name** *OSGibundle***, version** *version***, reason code** *{ERROR_CODE_UNRECOGNIZED | JVMSERVER_NOT_FOUND | EXCEPTION_FROM_JVMSERVER | JVMSERVER_NOT_OSGI_ENABLED | INTERNAL_ERROR | DUPLICATE_OSGI_BUNDLE_FOUND}***.**

Explanation: An attempt to install OSGi bundle resource *OSGibundle* version in the JVM server *jvmserver* has failed. This error can occur when installing a CICS BUNDLE resource that contains one or more OSGi bundles. The reason code provides further information about why the OSGi bundle installation failed.

DUPLICATE_OSGI_BUNDLE_FOUND
An OSGi bundle with the same OSGi symbolic name and version is already installed in the JVM server.

ERROR_CODE_UNRECOGNISED
An unexpected error occurred.

EXCEPTION_FROM_JVMSERVER
An exception has been thrown in the JVM server when installing the OSGi bundle.

INTERNAL_ERROR
An internal system error occurred.

JVMSERVER_NOT_FOUND
The target JVM server is not available.

JVMSERVER_NOT_OSGI_ENABLED
The JVM server is not configured to support OSGi.

System action: CICS was unable to install the OSGi bundle. The bundle part in the CICS BUNDLE resource is placed in an UNUSABLE state, and the CICS BUNDLE resource is disabled.

User response: Examine the reason code to determine why the OSGi bundle installation failed. If required, perform one of the following actions

DUPLICATE_OSGI_BUNDLE_FOUND
Ensure that the OSGi bundle has the correct symbolic name and version. Also check that the bundle is not already installed in the JVM server in a different BUNDLE resource.

ERROR_CODE_UNRECOGNIZED
Contact IBM Support.

EXCEPTION_FROM_JVMSERVER
Check for other DFHSJ messages and the JVM server diagnostic information on zFS to determine the cause of the exception.

INTERNAL_ERROR
Contact IBM Support

JVMSERVER_NOT_FOUND
Check that the target JVM server is correct. If not, specify the correct JVM server using the CICS Explorer® SDK. If the correct JVM server is specified, ensure the specified JVMSERVER resource is installed and enabled.

JVMSERVER_NOT_OSGI_ENABLED
Check that the JVM server is correctly configured in the JVM profile that is specified in the JVMSERVER resource.

When you have corrected the problem, discard and reinstall the CICS BUNDLE resource.

Module: DFHSJRL

XMEOUT Parameters: *date, time, applid, jvmserver, OSGibundle, version, {1=ERROR_CODE_UNRECOGNIZED, 2=JVMSERVER_NOT_FOUND, 3=EXCEPTION_FROM_JVMSERVER, 4=JVMSERVER_NOT_OSGI_ENABLED, 5=INTERNAL_ERROR, 6=DUPLICATE_OSGI_BUNDLE_FOUND}*

Destination: CSMT

DFHSJ1101 *date time applid* **An attempt to enable an OSGi bundle in JVM server** *jvmserver* **has failed. OSGi bundle symbolic name** *OSGibundle***, version** *version***, reason code** *{ERROR_CODE_UNRECOGNIZED | EXCEPTION_FROM_JVMSERVER}***.**

Explanation: An attempt to enable OSGi bundle resource *OSGibundle* version in JVM server *jvmserver* has failed. This error can occur when either installing or enabling a CICS BUNDLE resource that contains one or more OSGi bundles. The error on installation can occur when the CICS BUNDLE is to be installed as enabled. The reason code provides further information about why CICS failed to enable the OSGi bundle.

ERROR_CODE_UNRECOGNIZED
An unexpected error occurred.

EXCEPTION_FROM_JVMSERVER
An exception has been thrown in the JVM server when enabling the OSGi bundle. The activation of the OSGi bundle in the OSGi framework has failed.

System action: CICS failed to enable the OSGi bundle. The bundle part in the CICS BUNDLE resource is placed in an a DISABLED state, and the CICS BUNDLE resource is disabled.

User response: Examine the reason code to determine

why the enable of the OSGi bundle failed. If required, perform one of the following actions

ERROR_CODE_UNRECOGNIZED
Contact IBM Support. :

EXCEPTION_FROM_JVMSERVER
Check for other DFHSJ messages and the JVM server diagnostic information on zFS to determine the cause of the exception.

When you have corrected the problem, enable the CICS BUNDLE resource. CICS issues a request to enable the OSGi bundle, and any other bundle parts that are not enabled.

Module: DFHSJRL

XMEOUT Parameters: *date, time, applid, jvmserver, OSGibundle, version, {1=ERROR_CODE_UNRECOGNIZED, 2=EXCEPTION_FROM_JVMSERVER}*

Destination: CSMT

DFHSJ1102 *date time applid* **An attempt to disable an OSGi bundle in JVM server** *jvmserver* **has failed. OSGi bundle symbolic name** *OSGibundle*, **version** *version*, **reason code** *{ERROR_CODE_UNRECOGNIZED | EXCEPTION_FROM_JVMSERVER}*.

Explanation: An attempt to disable OSGi bundle resource *OSGibundle* version in the JVM server *jvmserver* has failed. This error can occur when disabling a CICS BUNDLE resource that contains one or more OSGi bundles. The reason code provides further information about why CICS failed to disable the OSGi bundle.

ERROR_CODE_UNRECOGNIZED
An unexpected error occurred.

EXCEPTION_FROM_JVMSERVER
An exception has been thrown in the JVM server when disabling the OSGi bundle.

System action: CICS failed to disable the OSGi bundle. The bundle part and the CICS BUNDLE resource remain in their previous state.

User response: Examine the reason code to determine why the disable of the OSGi bundle failed. If required, perform one of the following actions

ERROR_CODE_UNRECOGNIZED
Contact IBM Support.

EXCEPTION_FROM_JVMSERVER
Check for other DFHSJ messages and the JVM server diagnostic information on zFS to determine the cause of the exception.

When you have corrected the problem, disable the CICS BUNDLE resource. CICS issues a request to disable the OSGi bundle and any other bundle parts that are not disabled.

Module: DFHSJRL

XMEOUT Parameters: *date, time, applid, jvmserver, OSGibundle, version, {1=ERROR_CODE_UNRECOGNIZED, 2=EXCEPTION_FROM_JVMSERVER}*

Destination: CSMT

DFHSJ1104I W *date time applid* **The OSGi bundle has not been installed because the JVM server** *jvmserver* **is not enabled. OSGi bundle symbolic name** *OSGibundle*, **version** *version*.

Explanation: The OSGi bundle *OSGibundle* version is not installed because the JVM server *jvmserver* is not enabled.

System action: CICS will install and set the OSGi bundle to the appropriate status as soon as the JVM server is enabled. The bundle part in the CICS BUNDLE resource is placed in a DISABLED state, and the CICS BUNDLE resource is disabled.

User response: When you have corrected the problem, discard and reinstall the CICS BUNDLE resource.

Module: DFHSJRL

XMEOUT Parameters: *date, time, applid, jvmserver, OSGibundle, version*

Destination: CSMT

DFHSJ1105 *date time applid* **OSGIBUNDLE** *resname* **from BUNDLE** *bundlename* **has been installed.**

Explanation: The installation of the OSGIBUNDLE resource *resname* from the CICS BUNDLE *bundlename* has completed.

System action: Processing continues.

User response: None

Module: DFHSJRL

XMEOUT Parameters: *date, time, applid, resname, bundlename*

Destination: CSMT

DFHSJ1106 *date time applid* **OSGIBUNDLE** *resname* **from BUNDLE** *bundlename* **has been discarded.**

Explanation: The discard of the OSGIBUNDLE resource *resname* from the CICS BUNDLE *bundlename* has completed.

System action: Processing continues.

User response: None.

Module: DFHSJRL

XMEOUT Parameters: *date, time, applid, resname, bundlename*

Destination: CSMT

DFHSKnnnn messages

DFHSK1101 *applid* **General purpose subtask terminated abnormally - system completion code =** *X'xxxx'*

Explanation: A subtask attached by DFHSKP has completed abnormally.

System action: CICS continues in degraded mode.

User response: Find out why the subtask failed. *xxxx* is the operating system completion code.

Module: DFHSKP

XMEOUT Parameters: *applid, X'xxxx'*

Destination: Console

DFHSK1102 *applid* **Unable to attach general purpose subtask - system return code =** *X'xxxx'*

Explanation: DFHSKP has attempted to attach an operating system subtask. The ATTACH has failed.

System action: CICS continues in degraded mode.

User response: Find out why the attach failed. *xxxx* is the operating system completion code.

Module: DFHSKP

XMEOUT Parameters: *applid, X'xxxx'*

Destination: Console

DFHSK1103 *applid* **ESTAE macro failed in general purpose subtask - system return code =** *X'xxxx'*

Explanation: A general purpose subtask issued an MVS ESTAE macro. *xxxx* is the nonzero response from MVS.

System action: CICS continues in degraded mode.

User response: Find out why the macro failed (this is a failure in MVS). Response code is output with the message.

Module: DFHSKP

XMEOUT Parameters: *applid, X'xxxx'*

Destination: Console

DFHSK1104I *applid* **General purpose subtask terminated because error threshold has been reached**

Explanation: A general purpose subtask has failed several times while executing its own code. CICS has terminated the task.

System action: CICS continues in degraded mode.

User response: Find out why the subtask failed.

Module: DFHSKP

XMEOUT Parameter: *applid*

Destination: Console

DFHSK1106I *applid* **Unable to authorize a general purpose subtask - RC=***nn*

Explanation: The CICS subtask program issued the CICS SVC to CICS authorize the TCB of an MVS subtask. The SVC returned the error response code *nn*. The possible values of *nn* and their meanings are

nn	Meaning
01	SVC service is not authorized.
02	Load of DFHASV failed.
03	Internal error in CICS SVC.
04	Internal error in CICS SVC. RB check failed.
10	DFHAUTH TYPE=CHECK macro failed.
14	Invalid TCB address passed to DFHASV.
18	DFHAUTH TYPE=subtask AFCB storage failed.
1C	GETMAIN for subtask AFCB storage failed.
20	Main task AFCB version is pre-CICS 1.7.
24	Main task AFCB version is too large for the SVC version in use.
Other	The SVC has not been defined and installed as described in the *CICS Transaction Server for z/OS Installation Guide*.

System action: CICS continues. The CICS SVC may fail again if reinvoked by a general purpose subtask.

User response: Use the response code in the message to determine the cause of the failure.

Module: DFHSKP

XMEOUT Parameters: *applid, nn*

Destination: Console

DFHSMnnnn messages

DFHSM0001 *applid* **An abend (code** *aaa/bbbb***) has occurred at offset** *X'offset'* **in module** *modname***.**

Explanation: An abnormal end (abend) or program check has occurred in module *modname*. This implies that there may be an error in the CICS code. Alternatively, unexpected data has been input, or storage has been overwritten.

The code *aaa/bbbb* is a 3-digit hexadecimal MVS code (if applicable), followed by a 4-digit alphanumeric CICS code. The MVS code is a system completion code (for example, 0C1 or D37). If an MVS code is not applicable, this field is filled with three hyphens. The CICS code is an abend code or a number referring to a CICS message (for example, AKEA is a CICS abend code; 1310 refers to message DFHTS1310).

System action: An exception entry is made in the trace table. A system dump is taken, unless you have specifically suppressed dumps in the dump table.

CICS continues unless you have specified in the dump table that CICS should terminate. If appropriate, an error return code is sent to the caller of this domain. In this case CICS could be terminated by the caller (for example, the domain manager, DFHDMDM). A message is issued to this effect.

Message DFHME0116 should be produced containing the symptom string for this problem.

User response: Notify the system programmer. If CICS is still running, it is necessary to decide whether to terminate CICS.

Look up the MVS code, if there is one, in the relevant MVS codes manual.

Next, look up the CICS alphanumeric code. This tells you, for example, whether the error was a program check, an abend, or a runaway, and may give you some guidance concerning user response.

If module *modname* is not crucial to the running of your CICS system, you may decide to continue to run and bring CICS down at a convenient time to resolve the problem. If you cannot run without the full use of module *modname* you should bring CICS down in a controlled shutdown.

You need further assistance from IBM to resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHSMAD, DFHSMAR, DFHSMCK, DFHSMDM, DFHSMGF, DFHSMMCI, DFHSMMC2, DFHSMMF, DFHSMMG, DFHSMPQ, DFHSMPP, DFHSMSR, DFHSMST, DFHSMSU, DFHSMSY

XMEOUT Parameters: *applid, aaa/bbbb, X'offset', modname*

Destination: Console

DFHSM0002 *applid* **A severe error (code** *X'code'***) has occurred in module** *modname***.**

Explanation: An error has been detected in module *modname*. The code X'*code*' is the exception trace point ID which uniquely identifies what the error is and where the error was detected.

System action: An exception entry (code X'*code*' in the message) is made in the trace table. A system dump is taken, unless you have specifically suppressed dumps in the dump table.

CICS continues unless you have specified in the dump table that CICS should terminate. If appropriate, an error return code is sent to the caller of this domain. In this case, CICS could be terminated by the caller (for example, the domain manager, DFHDMDM). A message is issued to this effect.

Message DFHME0116 should be produced containing the symptom string for this problem.

User response: This indicates a possible error in CICS code. The severity of its impact depends on the importance of the function being executed at the time of the error.

CICS may not have been terminated. If the message occurs once and module *modname* is not crucial to the running of your CICS system, you may decide to continue to run and bring CICS down at a convenient time to resolve the problem.

If the message recurs or if you cannot run without the full use of module *modname*, you should bring CICS down in a controlled shutdown.

See the *CICS Trace Entries* for a description of the exception trace point ID, X'*code*' and the data it contains.

You need further assistance from IBM to resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHSMAD, DFHSMAR, DFHSMCK, DFHSMGF, DFHSMMC2, DFHSMMF, DFHSMMG, DFHSMPQ, DFHSMPP DFHSMSCP, DFHSMSR, DFHSMST, DFHSMSU, DFHSMSY

XMEOUT Parameters: *applid, X'code',modname*

Destination: Console

DFHSM0004 *applid* **A possible loop has been detected at offset** *X'offset'* **in module** *modname***.**

Explanation: A CICS function is taking more time to process than CICS expects. A possible loop has been detected in module *modname* at offset X'*offset*'. This is

the offset of the instruction which was executing at the time the error was detected.

System action: An exception entry is made in the trace table. A system dump is taken, unless you have specifically suppressed dumps in the dump table.

CICS continues unless you have specified in the dump table that CICS should terminate. If appropriate, an error return code is sent to the caller of this domain. In this case CICS could be terminated by the caller (for example, the domain manager, DFHDMDM). A message is issued to this effect.

Message DFHME0116 should be produced containing the symptom string for this problem.

User response: Notify the system programmer. If CICS has not been terminated, it is necessary to decide whether the problem is serious enough to bring CICS down.

Since some CICS functions can use a lot of processor time, this message may have been caused by a long-running function. So there may not be an error here. Usually, CICS purges a CICS function which exceeds the runaway task time interval which you have specified in the SIT (this is the ICVR which is measured in milliseconds). This means that module *modname* in the message is terminated and CICS continues.

But if you have declared ICVR=0 in the SIT and you consider that module *modname* has gone into a loop, you have to terminate CICS in order to terminate the runaway function.

If CICS has terminated module *modname*, and you consider that it was not a runaway, you should increase the ICVR time interval in the SIT. You have to bring CICS down at a suitable time to do this permanently. But you can change the ICVR time interval temporarily online, using the CEMT transaction.

If raising the ICVR time does not solve the problem, you need further assistance from IBM. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHSMMCI, DFHSMST

XMEOUT Parameters: *applid, X'offset', modname*

Destination: Console

DFHSM0006 *applid* **Insufficient storage to satisfy Getmain (code** *X'code'***) in module** *modname***. MVS code** *mvscode***.**

Explanation: An MVS GETMAIN was issued by module *modname*, but there was insufficient storage available to satisfy the request.

The code X'*code*' is the exception trace point ID which uniquely identifies the place where the error was detected.

The code *mvscode* is the MVS GETMAIN return code.

System action: An exception entry is made in the trace table (code X'*code*'). A system dump is taken, unless you have specifically suppressed dumps in the dump table.

CICS continues unless you have specified in the dump table that CICS should terminate.

If appropriate, an error return code is sent to the caller of this domain. In this case, CICS could be terminated by the caller (for example, the domain manager, DFHDMDM). A message is issued to this effect.

Message DFHME0116 should be produced containing the symptom string for this problem.

User response: If CICS has been terminated by another module, look out for the relevant termination messages (from, for example, the domain manager), and look up the user response suggested for these messages.

If CICS is still running, the problem may be a temporary one which rights itself if more storage becomes available. If you can manage without module *modname*, you may decide to continue and bring CICS down at a convenient time to resolve the problem. If the message recurs or if you cannot run without the full use of all CICS modules, you should bring CICS down in a controlled shutdown.

See the *CICS Trace Entries* for a description of the exception trace point ID, X'*code*' and the data it contains.

You can get diagnostic information about the MVS return code by consulting the relevant MVS codes manual.

Try decreasing the limits of the CICS dynamic storage areas (DSAs), or increasing the MVS region size. You can vary the CICS DSAs dynamically using the DSALIM and EDSALIM parameters on the CEMT master terminal command. To increase the MVS region size you must bring CICS down and change the MVS JCL REGION parameter.

Module: DFHSMDM

XMEOUT Parameters: *applid, X'code',modname, mvscode*

Destination: Console

DFHSM0102 *applid* **A storage violation (code** *X'code'***) has been detected by module** *modname***.**

Explanation: A storage violation has been detected by module *modname*. The code X'*code*' is the exception trace point ID which uniquely identifies the type of storage violation.

System action: An exception entry (X'*code*' in the message) is made in the trace table. Use the exception trace point ID, X'*code*', to investigate the cause of the storage violation. A description of the exception trace point ID, and the data it contains, is in the *CICS Trace*

Entries. A system dump is taken, unless you have specifically suppressed dumps in the dump table.

CICS continues unless you have specified in the dump table that CICS should terminate.

If you have enabled storage recovery (by specifying the system initialization parameter STGRCVY=YES), CICS attempts to repair the storage violation. Otherwise, the storage is left unchanged.

Message DFHME0116 should be produced containing the symptom string for this problem.

User response: Use the exception trace point ID, X'*code*', to investigate the cause of the storage violation. See the *CICS Trace Entries* for a description of the exception trace point ID and the data it contains.

Module: DFHSMAR, DFHSMCK, DFHSMGF, DFHSMMC2, DFHSMMF

XMEOUT Parameters: *applid, X'code',modname*

Destination: Console

DFHSM0103 *applid* **A storage violation (code** *X'code'***) has been detected by the storage violation trap. Trap is now inactive.**

Explanation: A storage violation has been detected by the storage violation trap, which may be enabled via the CHKSTSK or the CHKSTRM system initialization parameters or via the CSFE transaction. The code X'*code*' is the exception trace point ID which uniquely identifies the type of storage violation detected.

System action: CICS disables the storage violation trap. An exception entry (X'*code*' in the message) is made in the trace table. A system dump is taken, unless you have specifically suppressed dumps in the dump table.

CICS continues unless you have specified in the dump table that CICS should terminate.

If you have enabled storage recovery (by specifying the system initialization parameter STGRCVY=YES), CICS attempts to repair the storage violation. Otherwise, the storage is left unchanged.

Message DFHME0116 should be produced containing the symptom string for this problem. Even if CICS is able to repair the storage, the storage violation trap still remains inactive.

User response: Use the exception trace point ID, X'*code*', to investigate the cause of the storage violation. See the *CICS Trace Entries* for a description of the exception trace point ID and the data it contains.

Module: DFHSMCK

XMEOUT Parameters: *applid, X'code'*

Destination: Console

DFHSM0113I *applid* **Storage protection is not active.**

Explanation: This is an informatory message stating that storage protection has not been requested (STGPROT=NO) and is not in effect for this execution of CICS.

System action: CICS continues.

User response: None. You can suppress this message with the system initialization parameter, MSGLVL=0. Storage protection can be enabled by specifying the system initialization parameter STGPROT=YES.

Module: DFHSMDM

XMEOUT Parameter: *applid*

Destination: Console

DFHSM0114 *applid* **Storage protection was requested but the support is not available. Storage protection is not active.**

Explanation: This is an informatory message stating that although storage protection was requested, it is not in effect for this execution of CICS because the necessary hardware and/or operating system support is not available.

System action: CICS continues.

User response: None.

Module: DFHSMDM

XMEOUT Parameter: *applid*

Destination: Console

DFHSM0115I *applid* **Storage protection is active.**

Explanation: This is an informatory message stating that storage protection is requested (STGPROT=YES) and is in effect for this execution of CICS.

System action: CICS continues.

User response: None. You can suppress this message with the system initialization parameter, MSGLVL=0.

Module: DFHSMDM

XMEOUT Parameter: *applid*

Destination: Console

DFHSM0120I *applid* **Reentrant programs will not be loaded into read-only storage.**

Explanation: This is an informatory message stating that read-only programs will not be loaded into read-only storage for this execution of CICS. This is because RENTPGM=NOPROTECT was specified as a system initialization parameter.

System action: CICS continues.

User response: None.

You should not specify RENTPGM=NOPROTECT unless you wish to deliberately overwrite programs (to set breakpoints while testing, for example).

Module: DFHSMDM

XMEOUT Parameter: *applid*

Destination: Console

DFHSM0122I *applid* **Limit of DSA storage below 16MB is** *dsalimit***K.**

Explanation: This message gives the limit *dsalimit* of the dynamic storage area (DSA) below 16MB.

System action: CICS continues.

User response: None. You can suppress this message with the message level system initialization parameter, MSGLVL=0.

Module: DFHSMDM

XMEOUT Parameters: *applid, dsalimit*

Destination: Console

DFHSM0123I *applid* **Limit of DSA storage above 16MB is** *edsalimit***M.**

Explanation: This message gives the limit *edsalimit* of the dynamic storage area (DSA) above 16MB.

System action: CICS continues.

User response: None. You can suppress this message with the message level system initialization parameter, MSGLVL=0.

Module: DFHSMDM

XMEOUT Parameters: *applid, edsalimit*

Destination: Console

DFHSM0124 *applid* **Transaction isolation was requested but the support is not available or storage protection is not active. Transaction isolation is not active.**

Explanation: The combination of system initialization parameters STGPROT(NO) and TRANISO(YES) is invalid. During a warm or emergency start of CICS, the catalogued system initialization parameters are incompatible with a SIT override. Although transaction isolation was requested, it is not in effect for this execution of CICS because the necessary hardware and/or operating system support is not available, and/or storage protection is not active.

System action: CICS continues.

User response: None.

Module: DFHSMDM

XMEOUT Parameter: *applid*

Destination: Console

DFHSM0125I *applid* **Transaction isolation is active.**

Explanation: Transaction isolation is requested (TRANISO=YES) and is in effect for this execution of CICS.

System action: CICS continues.

User response: None. You can suppress this message with the system initialization parameter, MSGLVL=0.

Module: DFHSMDM

XMEOUT Parameter: *applid*

Destination: Console

DFHSM0126I *applid* **Transaction isolation is not active.**

Explanation: Transaction isolation has not been requested (TRANISO=NO) and is not in effect for this execution of CICS.

System action: CICS continues.

User response: None. You can suppress this message with the system initialization parameter, MSGLVL=0. Transaction isolation can be enabled by specifying TRANISO=YES as a system initialization parameter.

Module: DFHSMDM

XMEOUT Parameter: *applid*

Destination: Console

DFHSM0127 *applid* **Insufficient storage to allocate requested size for DSA limit storage below 16MB (***dsalimit***K).**

Explanation: CICS has issued an MVS GETMAIN for the requested limit *dsalimit* of DSA storage below 16MB, but the GETMAIN request failed.

System action: If the requested size is greater than the default, CICS reissues the MVS GETMAIN request using the default size for the DSALIM parameter.

If the requested size is not greater than the default, the storage manager makes an exception entry in the trace table. An error return code is sent to the domain manager DFHDMDM (the caller of the storage manager). The domain manager might then terminate CICS, in which case a message to this effect is issued.

User response: Ensure that the DSALIM system initialization parameter is specified correctly.

Ensure that the REGION parameter for the CICS job is large enough.

See the *z/OS MVS JCL Reference* for further information about specifying storage on the REGION parameter.

Module: DFHSMDM

XMEOUT Parameters: *applid, dsalimit*

Destination: Console

DFHSM0128 *applid* **Insufficient storage to allocate requested size for DSA limit storage above 16MB (***dsalimit***M).**

Explanation: CICS has issued an MVS GETMAIN for the requested limit *dsalimit* of DSA storage above 16MB, but the GETMAIN request failed.

System action: If the requested size is greater than the default, CICS reissues the MVS GETMAIN request using the default size for the EDSALIM parameter.

If the requested size is not greater than the default, the storage manager makes an exception entry in the trace table. An error return code is sent to the domain manager DFHDMDM (the caller of the storage manager). The domain manager might then terminate CICS, in which case a message to this effect is issued.

User response: Ensure that the EDSALIM parameter is specified correctly.

Ensure that the REGION parameter for the CICS job is large enough.

See the *z/OS MVS JCL Reference* for more information about specifying storage on the REGION parameter.

Module: DFHSMDM

XMEOUT Parameters: *applid, dsalimit*

Destination: Console

DFHSM0129 *applid* **Insufficient storage to allocate default size for DSA limit storage below 16MB (***dsalimit***K).**

Explanation: Following message DFHSM0127, CICS has reduced the MVS GETMAIN request to the default size for the DSALIM system initialization parameter but the GETMAIN request has still failed.

System action: The storage manager makes an exception entry in the trace table.

An error return code is sent to the domain manager, DFHDMDM, (the caller of storage manager). The domain manager might then terminate CICS, in which case a message to this effect is issued.

User response: See DFHSM0127 for further information.

Ensure that the REGION parameter for the CICS job is large enough.

See the *z/OS MVS JCL Reference* for more information about specifying storage on the REGION parameter.

Module: DFHSMDM

XMEOUT Parameters: *applid, dsalimit*

Destination: Console

DFHSM0130 *applid* **Insufficient storage to allocate default size for DSA limit storage above 16MB (***dsalimit***M).**

Explanation: Following message DFHSM0128, CICS has reduced the MVS GETMAIN request to the default size for the EDSALIM system initialization parameter but the GETMAIN request has still failed.

System action: The storage manager makes an exception entry in the trace table.

An error return code is sent to the domain manager, DFHDMDM, (the caller of storage manager). The domain manager might then terminate CICS, in which case a message to this effect is issued.

User response: See DFHSM0128 for further information.

Ensure that the REGION parameter for the CICS job is large enough.

See the *z/OS MVS JCL Reference* for more information about specifying storage on the REGION parameter.

Module: DFHSMDM

XMEOUT Parameters: *applid, dsalimit*

Destination: Console

DFHSM0131 *applid* **CICS is under stress (short on storage below 16MB).**

Explanation: This message is produced when there is a shortage of storage in any of the dynamic storage areas (DSAs) below 16MB. Either the largest free area in one of the DSAs is less than the size of the internally defined cushion for that DSA, or there is at least one transaction suspended due to insufficient contiguous free storage.

System action: An exception entry is made in the trace table to record the event.

CICS continues to operate but takes steps to alleviate the situation by, for example, slowing down the rate at which new tasks are started and by releasing storage occupied by programs which are not currently in use.

User response: No immediate action is required. However, if the problem persists you could increase the value of the DSALIMIT parameter, if possible, or reduce the storage requirements below 16MB of your CICS system. For more information about how to do this, see the *CICS Performance Guide*.

Module: DFHSMSY

XMEOUT Parameter: *applid*

Destination: Console

DFHSM0132 *applid* **CICS is no longer short on storage below 16MB.**

Explanation: The short on storage condition reported by message DFHSM0131 has ceased.

System action: CICS continues.

User response: None.

Module: DFHSMSY

XMEOUT Parameter: *applid*

Destination: Console

DFHSM0133 *applid* **CICS is under stress (short on storage above 16MB).**

Explanation: There is a shortage of storage in one of the dynamic storage areas (DSAs) above 16MB. Either the largest free area in one of the DSAs is less than the size of the internally defined cushion for that DSA, or there is at least one transaction suspended due to insufficient contiguous free storage.

System action: An exception entry is made in the trace table to record the event.

CICS continues to operate but takes steps to alleviate the situation by, for example, slowing down the rate at which new tasks are started and by releasing storage occupied by programs which are not currently in use.

User response: No immediate action is required. However, if the problem persists you could, if possible, increase the value of the EDSALIMIT parameter, or reduce the storage requirements of your CICS system above 16MB. For guidance on how to do this, see the *CICS Performance Guide*.

Module: DFHSMSY

XMEOUT Parameter: *applid*

Destination: Console

DFHSM0134 *applid* **CICS is no longer short on storage above 16MB.**

Explanation: The short on storage condition reported by message DFHSM0133 has ceased.

System action: CICS continues.

User response: None.

Module: DFHSMSY

XMEOUT Parameter: *applid*

Destination: Console

DFHSM0135 *applid* **Insufficient storage to allocate the requested size of** *dsasize***K for the** *dsaname***.**

Explanation: CICS has attempted to allocate the requested size of *dsasize* for the dynamic storage area *dsaname* but there is insufficient storage to satisfy the request. The size of a dynamic storage area (DSA) below 16MB specified via the SIT override is rounded up to a multiple of 256KB (or 1MB for the UDSA if transaction isolation is in effect). The size of a DSA above 16MB specified via the SIT override is rounded up to a multiple of 1MB.

System action: An error return code is sent to the domain manager, DFHDMDM (the caller of storage manager). The domain manager might then terminate CICS, in which case a message to this effect is issued.

User response: Either reduce the value specified in the DSASZE parameter, or increase the value specified in the DSALIM parameter.

Module: DFHSMDM

XMEOUT Parameters: *applid, dsasize,dsaname*

Destination: Console

DFHSM0136I *applid* **The size of the** *dsaname* **was specified as** *dsasize***K.**

Explanation: This is an informatory message giving the size *dsasize* of the dynamic storage area (DSA) *dsaname*.

System action: CICS continues.

User response: None. You can suppress this message with the message level system initialization parameter, MSGLVL=0.

Module: DFHSMDM

XMEOUT Parameters: *applid, dsaname,dsasize*

Destination: Console

DFHSM0300 DFHSMUTL ERROR REPORT

Explanation: This is the report from the local catalog storage manager domain subpool record manipulation program, DFHSMUTL. A number of lines may be written to the report Report header. ADD SUBPOOL=xxxxxxxx has been processed successfully. DEL SUBPOOL=xxxxxxxx has been processed successfully. Subpool record found by the LST command. An error has occurred opening the local catalog data set. The program is terminated. Only ADD, DEL and LST are allowed. The statement is ignored. Only ADD SUBPOOL=xxxxxxxx or DEL SUBPOOL=xxxxxxxx are allowed. The statement is ignored. FEEDBACK CODE = X'zz'. SEE DFSMS/MVS MACRO INSTRUCTIONS FOR DATA SETS A VSAM error has occurred whilst processing an ADD

SUBPOOL=xxxxxxxx command. For the meaning of the VSAM codes, refer to *DFSMS/MVS Macro Instructions for Data Sets*, SC26-4913. The program is terminated. FEEDBACK CODE = X'zz'. SEE DFSMS/MVS MACRO INSTRUCTIONS FOR DATA SETS A VSAM error has occurred whilst processing a DEL SUBPOOL=xxxxxxxx command. For the meaning of the VSAM codes, refer to *DFSMS/MVS Macro Instructions for Data Sets*, SC26-4913. The program is terminated. Report trailer.

System action: See Explanation.

User response: If an error is reported, correct the cause and retry.

Module: DFHSMUTL

Destination: SYSPRINT

DFHSM0601I *applid* **Limit of above the bar storage available is** *gdsalimitgdsaunits{NOLIMIT | }***from** *gdsaloc***.**

Explanation: This is an informatory message giving the limit *gdsalimit* value in *gdsaunits* (M=megabytes, G=gigabytes, T= terabytes, P=petabytes, E=exabytes) of above the bar storage available and the source *gdsaloc* of the limit.

System action: CICS continues.

User response: None. You can suppress this message with the message level system initialization parameter, MSGLVL=0.

Module: DFHSMDM

XMEOUT Parameters: *applid, gdsalimit, gdsaunits, {1=NOLIMIT ,2= }, gdsaloc*

Destination: Console

DFHSM0602 *applid* **Insufficient storage to allocate the minimum above the bar memory object.**

Explanation: This is an error message indicating that the amount of above the bar storage available is less than the minimum needed for CICS to initialize (4GB).

System action: CICS terminates.

User response: Set the MEMLIMIT value in the JCL procedure used to start CICS to a value greater than or equal to 4GB. See the *z/OS JCL Reference* for more information on specifying storage using the MEMLIMIT parameter.

Module: DFHSMDM

XMEOUT Parameter: *applid*

Destination: Console

DFHSM0606 *applid* **The amount of MVS above the bar storage available to CICS is critically low.**

Explanation: This message is produced when CICS is unable to satisfy an above the bar storage request. The message means that insufficient above the bar storage was available to satisfy the MVS storage request. CICS has been forced to suspend a transaction in process or deny starting of a new transaction due to insufficient free above the bar storage.

System action: An exception entry is made in the trace table to record the event. CICS continues to operate but take steps to alleviate the situation and not start new transactions until the above the bar storage shortage is relieved.

User response: No immediate action is required. However, if the problem persists you may want to explore why the short on storage condition is ocurring. For more information on short on storage conditions in the DSAs, see the *CICS Performance Guide*.

Module: DFHSMSY

XMEOUT Parameter: *applid*

Destination: Console

DFHSM0607 *applid* **The amount of MVS above the bar storage available to CICS is no longer critically low.**

Explanation: The MVS storage shortage reported by message DFHSM0606 has ceased.

System action: CICS continues.

User response: None.

Module: DFHSMSY

XMEOUT Parameter: *applid*

Destination: Console

DFHSNnnnn messages

DFHSN0001 *applid* **An abend (code** *aaa/bbbb***) has occurred at offset** *X'offset'* **in module** *modname***.**

Explanation: An abnormal end (abend) or program check has occurred in module *modname*. This implies that there may be an error in the CICS code. Alternatively, unexpected data has been input, or storage has been overwritten.

The code *aaa/bbbb* is a 3-digit hexadecimal MVS code (if applicable), followed by a 4-digit alphanumeric CICS code. The MVS code is a system completion code (for example, 0C1 or D37). If an MVS code is not applicable, this field is filled with three hyphens. The CICS code is an abend code or a number referring to a CICS message (for example, AKEA is a CICS abend code; 1310 refers to message DFHTS1310).

System action: An exception entry is made in the trace table. A system dump is taken, unless you have specifically suppressed dumps in the dump table.

CICS continues unless you have specified in the dump table that CICS should terminate. If appropriate, an error return code is sent to the caller of this domain. In this case CICS could be terminated by the caller (for example, the domain manager, DFHDMDM). A message is issued to this effect.

Message DFHME0116 should be produced containing the symptom string for this problem.

User response: Notify the system programmer. If CICS is still running, it is necessary to decide whether to terminate CICS.

Look up the MVS code, if there is one, in the relevant MVS codes manual which is detailed in the book list in the front of this manual.

Next, look up the description of the CICS alphanumeric code. This tells you, for example, whether the error was a program check, an abend, or a runaway, and may give you some guidance concerning user response.

If module *modname* is not crucial to the running of your CICS system, you may decide to continue to run and bring CICS down at a convenient time to resolve the problem.

If you cannot run without the full use of module *modname* you should bring CICS down in a controlled shutdown.

You need further assistance from IBM to resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHSNUS, DFHSNAS, DFHSNPU, DFHSNSU, DFHSNTU, DFHSNXR,

XMEOUT Parameters: *applid, aaa/bbbb, X'offset', modname*

Destination: Console

DFHSN0002 *applid* **A severe error (code** *X'code'***) has occurred in program** *progname***.**

Explanation: CICS has detected a severe error while running module *progname*. This error is associated with exception trace point ID *code*. For further information about CICS exception trace entries, refer to the *CICS Problem Determination Guide*.

System action: The task issuing the signon abends.

Message DFHME0116 should be produced containing the symptom string for this problem.

User response: You need further assistance from IBM to resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHSNUS, DFHSNAS, DFHSNPU, DFHSNSU, DFHSNTU, DFHSNXR

XMEOUT Parameters: *applid, X'code',progname*

Destination: Console

DFHSN0004 *applid* **A possible loop has been detected at offset** *X'offset'* **in module** *modname***.**

Explanation: A CICS function is taking more time to process than CICS expects. A possible loop has been detected in module *modname* at offset X'*offset*'. This is the offset of the instruction which was executing at the time the error was detected.

System action: An exception entry is made in the trace table. A system dump is taken, unless you have specifically suppressed dumps in the dump table.

CICS continues unless you have specified in the dump table that CICS should terminate. If appropriate, an error return code is sent to the caller of this domain. In this case CICS could be terminated by the caller (for example, the domain manager, DFHDMDM). A message is issued to this effect.

Message DFHME0116 should be produced containing the symptom string for this problem.

User response: Notify the system programmer. If CICS has not been terminated, it is necessary to decide whether the problem is serious enough to bring CICS down.

Since some CICS functions can use a lot of processor time, this message may have been caused by a long-running function. So there may not be an error here. Usually, CICS purges a CICS function which exceeds the runaway task time interval which you have specified in the SIT (this is the ICVR which is measured in milliseconds). This means that module *modname* in the message is terminated and CICS continues.

But if you have declared ICVR=0 in the SIT and you consider that module *modname* has gone into a loop, you have to terminate CICS in order to terminate the runaway function.

If CICS has terminated module *modname*, and you consider that it was not a runaway, you should increase the ICVR time interval in the SIT. You have to bring CICS down at a suitable time to do this permanently. But you can change the ICVR time interval temporarily online, using the CEMT transaction.

If raising the ICVR time does not solve the problem, you will need further assistance from IBM to resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHSNUS, DFHSNAS, DFHSNPU, DFHSNSU, DFHSNTU, DFHSNXR

XMEOUT Parameters: *applid, X'offset', modname*

Destination: Console

DFHSN1100 *date time applid* **Signon at** *{netname |console | terminal }portname* **by user** *userid* **in group** *groupid* **is complete.**

Explanation: Terminal *portname* has been signed on. It now has the security attributes for userid *userid* in group *groupid*.

System action: Processing continues.

User response: The user at terminal *portname* can now use those CICS transactions permitted for this userid in group *groupid*.

Module: DFHSNTU

XMEOUT Parameters: *date, time,applid, {1=netname , 2=console , 3=terminal }, portname, userid,groupid*

Destination: CSCS

DFHSN1101 *date time applid* **Signon at** *{netname |console | terminal }portname* **has failed. User** *userid* **not recognized.**

Explanation: A signon has been issued from terminal *portname* which specified a userid *userid* that is not known to the ESM.

System action: The signon request is rejected.

User response: Unless this implies a breach of security that needs investigating, contact your security administrator so that the userid can be made known to the ESM.

Module: DFHSNTU

XMEOUT Parameters: *date, time,applid, {1=netname , 2=console , 3=terminal }, portname, userid*

Destination: CSCS

DFHSN1102 *date time applid* **Signon at** *{netname |console | terminal }portname* **by user** *userid* **has failed. Password not recognized.**

Explanation: A signon has been issued from terminal *portname* which specified an incorrect password.

This was probably caused by a misspelling of the password or because the password is not valid for this userid.

System action: The signon request is rejected.

User response: None, unless this implies a breach of security that needs investigating.

Module: DFHSNTU

XMEOUT Parameters: *date, time,applid, {1=netname , 2=console , 3=terminal }, portname, userid*

Destination: CSCS

DFHSN1103 *date time applid* **Signon at** *{netname |console | terminal }portname* **by user** *userid* **has failed. OID card damaged or not authorized.**

Explanation: A signon has been issued from terminal *portname* which used an unauthorized or damaged operator identification (OID) card.

System action: The signon request is rejected.

User response: None, unless this implies a breach of security that needs investigating.

Module: DFHSNTU

XMEOUT Parameters: *date, time,applid, {1=netname , 2=console , 3=terminal }, portname, userid*

Destination: CSCS

DFHSN1104 *date time applid* **Signon at** *{netname |console | terminal }portname* **by user** *userid* **has failed. New password not allowed.**

Explanation: A signon has been issued from terminal *portname* which attempted to change the password to a value that the external security manager (ESM) does not allow.

System action: The signon request is rejected.

User response: None, unless this implies a breach of security that needs investigating.

Module: DFHSNTU

XMEOUT Parameters: *date, time,applid, {1=netname , 2=console , 3=terminal }, portname, userid*

Destination: CSCS

DFHSN1105 *date time applid* **Signon at** *{netname |console | terminal }portname* **by user** *userid* **requires a password.**

Explanation: A signon has been issued from terminal *portname* which did not specify a password. The signon has been rejected because user *userid* requires a password.

System action: The signon request is rejected.

User response: None, unless this implies a breach of security that needs investigating.

Module: DFHSNTU

XMEOUT Parameters: *date, time,applid, {1=netname , 2=console , 3=terminal }, portname, userid*

Destination: CSCS

DFHSN1106 *date time applid* **Signon at** *{netname |console | terminal }portname* **by user** *userid* **requires a new password.**

Explanation: A signon has been issued from terminal *portname* for which the external security manager (ESM) indicates the password has expired.

This does not imply a security breach. It is a normal response indicating that the ESM password has expired.

System action: The signon request is rejected.

User response: Change the password using the CICS signon process, the EXEC CICS CHANGE PASSWORD API, the EXEC CICS CHANGE PHRASE API, or any other method available to you. Alternatively, contact your security administrator for assistance.

Module: DFHSNTU

XMEOUT Parameters: *date, time,applid, {1=netname , 2=console , 3=terminal }, portname, userid*

Destination: CSCS

DFHSN1107 *date time applid* **Signon at** *{netname |console | terminal }portname* **by user** *userid* **requires an OID card.**

Explanation: A signon has been issued from terminal *portname* which did not use an operator identification (OID) card when the external security manager (ESM) indicates that one should have been used.

System action: The signon request is rejected.

User response: None, unless this implies a breach of security which needs investigating.

Module: DFHSNTU

XMEOUT Parameters: *date, time,applid, {1=netname , 2=console , 3=terminal }, portname, userid*

Destination: CSCS

DFHSN1108 *date time applid* **Signon at** *{netname | console | terminal }portname* **by user** *userid* **has failed. SAF codes are (***X'safresp'***,***X'safreas'***). ESM codes are (***X'esmresp'***,***X'esmreas'***).**

Explanation: A signon has been issued from terminal *portname* and has been rejected by the external security manager (ESM).

System action: The signon request is rejected.

User response: The response and reason codes (*safresp* and *safreas*) returned by the system authorization facility (SAF), and the response and reason codes (*esmresp* and *esmreas*) returned by the external security manager (ESM) are those issued by the RACROUTE REQUEST=VERIFY or RACROUTE REQUEST=EXTRACT macros. These return codes are described in the *z/OS MVS Authorized Assembler Services Guide* and in *z/OS Security Server RACROUTE Macro Reference*. See these manuals for an explanation of the codes.

Module: DFHSNTU

XMEOUT Parameters: *date, time, applid, {1=netname, 2=console , 3=terminal }, portname, userid, X'safresp', X'safreas', X'esmresp', X'esmreas'*

Destination: CSCS

DFHSN1112 *date time applid* **Signon at** *{netname |console | terminal }portname* **by user** *userid* **has failed because the terminal has preset security.**

Explanation: A signon has been issued from terminal *portname*. This terminal has been defined to CICS with fixed security attributes. It does NOT support signon.

System action: The signon request is rejected.

User response: None, unless this implies a breach of security that needs investigating.

Module: DFHSNTU

XMEOUT Parameters: *date, time,applid, {1=netname , 2=console , 3=terminal }, portname, userid*

Destination: CSCS

DFHSN1113 *date time applid* **Signon at** *{netname |console | terminal }portname* **by user** *userid* **has failed because the terminal was already signed on.**

Explanation: A signon has been issued from terminal *portname* while a previous signon was still in effect for this terminal.

System action: The signon request is rejected.

User response: None, unless this implies a breach of security which needs investigating.

Module: DFHSNTU

XMEOUT Parameters: *date, time,applid, {1=netname , 2=console , 3=terminal }, portname, userid*

Destination: CSCS

DFHSN1114 *date time applid* **Signon by user** *userid* **has failed because there is no terminal associated with the requesting task.**

Explanation: A signon has been issued by user *userid* from a task that had been started without a terminal.

System action: The signon request is rejected.

User response: Investigate why a signon has been issued from a task that is not associated with a terminal.

Module: DFHSNTU

XMEOUT Parameters: *date, time,applid, userid*

Destination: CSCS

DFHSN1115 *date time applid* **Signon at** *{netname |console | terminal }portname* **by user** *userid* **has failed. Signon is not allowed at a surrogate terminal except by use of the CRTE transaction.**

Explanation: CICS does not support the signing-on of surrogate terminals, except when done during a CRTE routing session.

System action: Processing continues.

User response: Investigate how and why users are attempting to use signon via transaction routing.

Module: DFHSNTU

XMEOUT Parameters: *date, time,applid, {1=netname , 2=console , 3=terminal }, portname, userid*

Destination: CSCS

DFHSN1116 *date time applid* **Signon at** *{netname |console | terminal }portname* **by user** *userid* **has failed because the national language to be used is not supported in this run of CICS.**

Explanation: The national language specified has been recognized as a valid IBM national language. However, either this language cannot be specified as a valid national language for CICS initialization, or CICS has not been initialized with this language in the current run of CICS.

See the *CICS Application Programming Reference* for a list of national languages that CICS can be initialized to use.

System action: Signon fails.

User response: Retry signon with a national language that CICS has been initialized to use.

Module: DFHSNTU

XMEOUT Parameters: *date, time,applid, {1=netname , 2=console , 3=terminal }, portname, userid*

Destination: CSCS

DFHSN1117 *date time applid* **Signon at** *{netname |console | terminal }portname* **by user** *userid* **has failed because an invalid national language was selected.**

Explanation: Signon failed because the language specified was not recognized as an IBM national language.

System action: Signon fails.

User response: Retry signon with a correct language value.

Module: DFHSNTU

XMEOUT Parameters: *date, time,applid, {1=netname , 2=console , 3=terminal }, portname, userid*

Destination: CSCS

DFHSN1118 *date time applid* **Signon at** *{netname |console | terminal }portname* **by user** *userid* **has failed because the user is not authorized to use the terminal.**

Explanation: A signon has been issued from terminal *portname* which has failed. The user is not authorized to use the terminal.

System action: The signon request is rejected.

User response: Contact your security administrator, who should check if the user should be authorized to use terminal *portname*.

In particular, check if the user should be able to access the system on this particular day and time and whether the terminal may be used on this day and time.

Module: DFHSNTU

XMEOUT Parameters: *date, time,applid, {1=netname , 2=console , 3=terminal }, portname, userid*

Destination: CSCS

DFHSN1119 *date time applid* **Signon at** *{netname |console | terminal }portname* **by user** *userid* **has failed because the user is not authorized to use application** *applname***.**

Explanation: A signon has been issued from terminal *portname* which has failed. The user is not authorized to use the application *applname*.

- If you are using the z/OS Communications Server generic resource function, *applname* is the generic resource name specified in the GRNAME system initialization parameter.
- If you are using XRF, *applname* is the generic applid specified as the first operand of the APPLID system initialization parameter.
- Otherwise, *applname* is the application identifier specified as the single operand of the APPLID system initialization parameter.

System action: The signon request is rejected.

User response: Contact your security administrator, who should check whether the user should have authorization to use application *applid*.

Module: DFHSNTU

XMEOUT Parameters: *date, time,applid, {1=netname , 2=console , 3=terminal }, portname, userid,applname*

Destination: CSCS

DFHSN1120 *date time applid* **Signon at** *{netname |console | terminal }portname* **by user** *userid* **has failed because the** *{userid | group access}* **has been revoked.**

Explanation: Either the userid, or the user's access to the ESM group containing it, has been revoked by the ESM. This is usually the result of repeated attempts to signon with an invalid password.

System action: The signon request is rejected.

User response: For revoked userids, contact your security administrator who can reauthorize the revoked userid by issuing the ALTUSER RESUME function. For revoked group access, contact your security administrator who can restore the user's access to the group by issuing the CONNECT RESUME function.

Module: DFHSNTU

XMEOUT Parameters: *date, time,applid, {1=netname , 2=console , 3=terminal }, portname, userid,{1=userid, 2=group access}*

Destination: CSCS

DFHSN1129 *date time applid* **Signon at** *{netname |console | terminal }portname* **by user** *userid* **has failed because the user is already signed on elsewhere.**

Explanation: A signon has been issued from terminal *portname* while the user is already signed on under the restrictions imposed by the current setting of the SNSCOPE system initialization parameter.

System action: The signon request is rejected.

User response: Investigate why users are attempting to signon twice within the current signon scope. See the *CICS System Definition Guide* for more information about the SNSCOPE parameter.

Module: DFHSNTU

XMEOUT Parameters: *date, time,applid, {1=netname , 2=console , 3=terminal }, portname, userid*

Destination: CSCS

DFHSN1130 *date time applid* **Signon at** *{netname |console | terminal }portname* **by user** *userid* **failed because the userid was not found in the specified group.**

Explanation: A signon has been issued from terminal *portname* which has failed. Either the userid is not in the specified group, or the group specified for this user to be associated with after signon is not known to the ESM.

System action: The signon request is rejected.

User response: Check that the groupid specified is correct. If it is, contact your security administrator to ensure that this group is defined properly, and that the user is connected to this group.

Module: DFHSNTU

XMEOUT Parameters: *date, time,applid, {1=netname , 2=console , 3=terminal }, portname, userid*

Destination: CSCS

DFHSN1131 *date time applid* **Signon at** *{netname |console | terminal }portname* **by user** *userid* **has failed because security is not active in this CICS region.**

Explanation: A signon has been issued from terminal *portname* which has failed. This is because this CICS region is running without security active.

System action: The signon request is rejected.

User response: None.

Module: DFHSNTU

XMEOUT Parameters: *date, time,applid, {1=netname , 2=console , 3=terminal }, portname, userid*

Destination: CSCS

DFHSN1132 *date time applid* **Signon at terminal** *termid* **by user** *userid* **has failed because the terminal is a session.**

Explanation: A signon has been issued from terminal *termid* which is a session. The security attributes of a session can only be changed on receipt of a valid FMH-5 attach header.

System action: The signon request is rejected.

User response: Investigate how and why users are attempting to use signon for a session.

Module: DFHSNTU

XMEOUT Parameters: *date, time,applid, termid, userid*

Destination: CSCS

DFHSN1133 *date time applid* **Signon at** *{netname |console | terminal }portname* **by user** *userid* **has failed because of an error during SNSCOPE checking.**

Explanation: A signon has been issued from terminal *portname*. The SNSCOPE initialization parameter disallows signon to more than one terminal at a time. An internal failure during SNSCOPE checking means that CICS is unable to confirm if the user is already signed on elsewhere. The failure has occurred because the limit of concurrent MVS ENQ requests has been reached.

System action: The signon request is rejected. Message DFHUS0120 will have been written to the console. See the explanation of this message for further information.

User response: Please report this problem to your CICS systems programmer.

See the *CICS System Definition Guide* for more information about the SNSCOPE parameter.

Module: DFHSNTU

XMEOUT Parameters: *date, time,applid, {1=netname , 2=console , 3=terminal }, portname, userid*

Destination: CSCS

DFHSN1200 *date time applid* **Signoff at** *{netname |console | terminal }portname* **by user** *userid* **is complete.** *tt* **transactions entered with** *nn* **errors.**

Explanation: Terminal *portname* has been signed off. It now has the default security attributes.

nn indicates the number of errors which have occurred.

System action: Processing continues.

User response: None.

Module: DFHSNTU

XMEOUT Parameters: *date, time,applid, {1=netname , 2=console , 3=terminal }, portname, userid,tt, nn*

Destination: CSCS

DFHSN1211 *date time applid* **Signoff at terminal** *termid* **has failed because the terminal is a session.**

Explanation: A signoff has been issued from terminal *termid* which is a session. The security attributes of a session can only be changed on receipt of a valid FMH-5 attach header.

System action: The signoff request is rejected.

User response: Investigate how and why users are attempting to use signoff for a session.

Module: DFHSNTU

XMEOUT Parameters: *date, time,applid, termid*

Destination: CSCS

DFHSN1212 *date time applid* **Signoff at** *{netname |console | terminal }portname* **has failed because the terminal has preset security.**

Explanation: A signoff has been issued from terminal *portname* which has been defined to CICS with fixed security attributes and so does not support signoff.

System action: The signoff request is rejected.

User response: None, unless this implies a breach of security which needs investigating.

Module: DFHSNTU

XMEOUT Parameters: *date, time,applid, {1=netname , 2=console , 3=terminal }, portname*

Destination: CSCS

DFHSN1213 *date time applid* **Signoff at** *{netname |console | terminal }portname* **has failed because the terminal was not signed on.**

Explanation: A signoff has been issued from terminal *portname* while no previous signon was in effect.

System action: The signoff request is rejected.

User response: None, unless this implies a breach of security which needs investigating.

Module: DFHSNTU

XMEOUT Parameters: *date, time,applid, {1=netname , 2=console , 3=terminal }, portname*

Destination: CSCS

DFHSN1214 *date time applid* **An attempted signoff by transaction** *tranid* **has failed because there was no terminal associated with the requesting task.**

Explanation: A signoff has been issued from a task that had been started without a terminal.

System action: The signoff request is rejected.

User response: Investigate why a signoff has been issued from a task that is not associated with a terminal.

Module: DFHSNTU

XMEOUT Parameters: *date, time,applid, tranid*

Destination: CSCS

DFHSN1215 *date time applid* **Signoff at** *{netname | console | terminal }portname* **has failed. Signoff is not allowed at a surrogate terminal except by use of the CRTE transaction.**

Explanation: CICS does not support the signing off of surrogate terminals, except when done during a CRTE routing session.

System action: Processing continues.

User response: Investigate how and why users are attempting to use signoff via transaction routing.

Module: DFHSNTU

XMEOUT Parameters: *date, time,applid, {1=netname , 2=console , 3=terminal }, portname*

Destination: CSCS

DFHSN1300 *date time applid* **An attempt to reschedule BMS pages for operator** *opid* **at** *{netname | console | terminal }portname* **has failed following a timeout. Pages on temporary storage queue** *X'hexqueueid'* **may require cleanup.**

Explanation: Operator *opid* has been timed out on terminal *netname* while viewing BMS pages. CICS has attempted to reschedule the pages so that they are available when the operator signs on again, but the reschedule has failed.

The pages are available on temporary storage queue *hexqueueid*. This queue continues to exist until it is explicitly disposed of.

System action: Processing continues.

User response: If you still need to view this data, repeat the processing which created the BMS pages.

Module: DFHSNTU

XMEOUT Parameters: *date, time,applid, opid, {1=netname ,2=console , 3=terminal }, portname, X'hexqueueid'*

Destination: CSCS

DFHSN1400 *date time applid* **Session signon for session** *session* **by user** *userid* **is complete.**

Explanation: The two CICS systems are connected and the MRO/ISC session is given the security authority of user *userid*.

System action: The MRO/ISC sessions are signed on.

User response: None.

Module: DFHSNSU

XMEOUT Parameters: *date, time,applid, session, userid*

Destination: CSCS

DFHSN1401 *date time applid* **Session signon for session** *session* **by user** *userid* **has failed. SAF codes are (***X'safresp'***,***X'safreas'***). ESM codes are (***X'esmresp'***,***X'esmreas'***).**

Explanation: An MRO/ISC signon is attempted by user *userid* but the signon has failed for the reason given.

System action: The session is not signed on.

User response: The response and reason codes (*safresp* and *safreas*) returned by the system authorization facility (SAF), and the response and reason codes (*esmresp* and *esmreas*) returned by the external security manager (ESM) are those issued by the RACROUTE REQUEST=VERIFY or RACROUTE REQUEST=EXTRACT macros. These return codes are described in the *z/OS MVS Authorized Assembler Services Guide*, and in *z/OS Security Server RACROUTE Macro Reference*. Consult the manuals to find the cause of the codes.

Module: DFHSNSU

XMEOUT Parameters: *date, time, applid, session, userid, X'safresp', X'safreas', X'esmresp', X'esmreas'*

Destination: CSCS

DFHSN1410 *date time applid* **Session signon for session** *session* **with default security attributes is complete.**

Explanation: The two CICS systems are connected and the MRO/ISC session is given the security authority of the default user.

System action: The MRO/ISC sessions are signed on.

User response: None.

Module: DFHSNSU

XMEOUT Parameters: *date, time,applid, session*

Destination: CSCS

DFHSN1500 *date time applid* **Session signoff for session** *session* **is complete.** *tt* **transactions entered with** *nn* **errors.**

Explanation: An MRO/ISC session is signed-off.

nn indicates the number of abends which have occurred.

System action: The security authority is removed from the session.

User response: None.

Module: DFHSNSU

XMEOUT Parameters: *date, time,applid, session, tt, nn*

Destination: CSCS

DFHSN1501 *date time applid* **Session signoff for session** *session* **has failed. SAF codes are (***X'safresp'***,***X'safreas'***). ESM codes are (***X'esmresp'***,***X'esmreas'***).**

Explanation: An MRO/ISC signoff is attempted but the signoff has failed for the reason given.

System action: Processing continues.

User response: The response and reason codes (*safresp* and *safreas*) returned by the system authorization facility (SAF), and the response and reason codes (*esmresp* and *esmreas*) returned by the external security manager (ESM) are those issued by the RACROUTE REQUEST=VERIFY or RACROUTE REQUEST=EXTRACT macros. These return codes are described in the *z/OS MVS Authorized Assembler Services Guide*, and in *z/OS Security Server RACROUTE Macro Reference*. Consult the manuals to find the cause of the codes.

Module: DFHSNSU

XMEOUT Parameters: *date, time, applid, session, X'safresp', X'safreas', X'esmresp', X'esmreas'*

Destination: CSCS

DFHSN1604 *date time applid* **Attach header signon at terminal** *termid* **by user** *userid* **has failed. SAF codes are (***X'safresp'***,***X'safreas'***). ESM codes are (***X'esmresp'***,***X'esmreas'***).**

Explanation: User *userid* has failed the implicit signon for attach security.

System action: The attach fails.

User response: The response and reason codes (*safresp* and *safreas*) returned by the system authorization facility (SAF), and the response and reason codes (*esmresp* and *esmreas*) returned by the external security manager (ESM) are those issued by the RACROUTE REQUEST=VERIFY or RACROUTE REQUEST=EXTRACT macros. These return codes are described in the *z/OS MVS Authorized Assembler Services Guide*, and in *z/OS Security Server RACROUTE Macro Reference*. Consult the manuals to find the cause of the codes.

Module: DFHSNUS

XMEOUT Parameters: *date, time, applid, termid, userid, X'safresp', X'safreas', X'esmresp', X'esmreas'*

Destination: CSCS

DFHSN1605 *date time applid* **Attach header signon at terminal** *termid* **has failed. SAF codes are (***X'safresp'***,***X'safreas'***). ESM codes are (***X'esmresp'***,***X'esmreas'***).**

Explanation: The implicit signon for local user security has failed.

System action: The attach fails.

User response: The response and reason codes (*safresp* and *safreas*) returned by the system authorization facility (SAF), and the response and reason codes (*esmresp* and *esmreas*) returned by the external security manager (ESM) are those issued by the RACROUTE REQUEST=VERIFY or RACROUTE REQUEST=EXTRACT macros. These return codes are described in the *z/OS MVS Authorized Assembler Services Guide*, and in *z/OS Security Server RACROUTE Macro Reference*. Consult the manuals to find the cause of the codes.

Module: DFHSNUS

XMEOUT Parameters: *date, time, applid, termid, X'safresp', X'safreas', X'esmresp', X'esmreas'*

Destination: CSCS

DFHSN1606 *date time applid* **Attach header signoff at terminal** *termid* **has failed. SAF codes are (***X'safresp'***,***X'safreas'***). ESM codes are (***X'esmresp'***,***X'esmreas'***).**

Explanation: The user has failed the implicit signoff for attach security.

System action: Processing continues.

User response: The response and reason codes (*safresp* and *safreas*) returned by the system authorization facility (SAF), and the response and reason codes (*esmresp* and *esmreas*) returned by the external security manager (ESM) are those issued by the RACROUTE REQUEST=VERIFY or RACROUTE REQUEST=EXTRACT macros. These return codes are described in the *z/OS MVS Authorized Assembler Services Guide*, and in *z/OS Security Server RACROUTE Macro Reference*. Consult the manuals to find the cause of the codes.

Module: DFHSNUS

XMEOUT Parameters: *date, time, applid, termid, X'safresp', X'safreas', X'esmresp', X'esmreas'*

Destination: CSCS

DFHSN1800 *date time applid* **Signon at** *{netname |console | terminal }portname* **by preset user** *userid* **in group** *groupid* **is complete.**

Explanation: The user *userid*, specified for preset security terminal *portname* has been signed on to the external security manager (ESM).

System action: The security attributes for this userid are used in all security requests issued against this terminal.

The terminal is now PRESET with this userid for its entire duration.

User response: None.

Module: DFHSNPU

XMEOUT Parameters: *date, time,applid, {1=netname , 2=console , 3=terminal }, portname, userid,groupid*

Destination: CSCS

DFHSN1801 *date time applid* **Signon at** *{netname | console | terminal }portname* **by preset user** *userid* **has failed. SAF codes are (***X'safresp'***,***X'safreas'***). ESM codes are (***X'esmresp'***,***X'esmreas'***).**

Explanation: The user *userid*, specified for a preset security terminal *portname*, could not be signed on to the external security manager (ESM).

System action: The signon request is rejected and the terminal cannot be put in service.

User response: The response and reason codes (*safresp* and *safreas*) returned by the system authorization facility (SAF), and the response and reason codes (*esmresp* and *esmreas*) returned by the external security manager (ESM) are those issued by the RACROUTE REQUEST=VERIFY or RACROUTE REQUEST=EXTRACT macros. These return codes are described in the *z/OS MVS Authorized Assembler Services Guide*, and in *z/OS Security Server RACROUTE Macro Reference*. Consult the manuals to find the cause of the codes.

Module: DFHSNPU

XMEOUT Parameters: *date, time, applid, {1=netname, 2=console , 3=terminal }, portname, userid, X'safresp', X'safreas', X'esmresp', X'esmreas'*

Destination: CSCS

DFHSN1850 *date time applid* **Signoff at preset** *{netname | console | terminal }portname* **is complete.**

Explanation: The preset security terminal *portname* has been signed off while the terminal was being deleted. Its security has been removed.

System action: Processing continues.

User response: None.

Module: DFHSNPU

XMEOUT Parameters: *date, time,applid, {1=netname , 2=console , 3=terminal }, portname*

Destination: CSCS

DFHSN1851 *date time applid* **Signoff at preset** *{netname | console | terminal }portname* **has failed. SAF codes are (***X'safresp'***,***X'safreas'***). ESM codes are (***X'esmresp'***,***X'esmreas'***).**

Explanation: The preset security terminal *portname*, could not be signed off while the terminal was being deleted.

System action: Processing continues.

User response: The response and reason codes (*safresp* and *safreas*) returned by the system authorization facility (SAF), and the response and reason codes (*esmresp* and *esmreas*) returned by the external security manager (ESM) are those issued by the RACROUTE REQUEST=VERIFY or RACROUTE REQUEST=EXTRACT macros. These return codes are described in the *z/OS MVS Authorized Assembler Services Guide*, and in *z/OS Security Server RACROUTE Macro Reference*. Consult the manuals to find the cause of the codes.

Module: DFHSNPU

XMEOUT Parameters: *date, time, applid, {1=netname, 2=console , 3=terminal }, portname, X'safresp', X'safreas', X'esmresp', X'esmreas'*

Destination: CSCS

DFHSOnnnn messages

DFHSO0001 *applid* **An abend (code** *aaa/bbbb***) has occurred at offset** *X'offset'* **in module** *modname***.**

Explanation: An abnormal end (abend) or program check has occurred in module *modname*. This implies that there may be an error in the CICS code. Alternatively, unexpected data has been input, or storage has been overwritten.

The code *aaa/bbbb* is a 3-digit hexadecimal MVS code (if applicable), followed by a 4-digit alphanumeric CICS code. The MVS code is a system completion code (for example, 0C1 or D37). If an MVS code is not applicable, this field is filled with three hyphens. The CICS code is an abend code or a number referring to a CICS message (for example, AKEA is a CICS abend code; 1310 refers to message DFHTS1310).

System action: An exception entry is made in the trace table. A system dump is taken, unless you have specifically suppressed dumps in the dump table.

CICS continues unless you have specified in the dump table that CICS should terminate. If appropriate, an error return code is sent to the caller of this domain. In this case CICS could be terminated by the caller (for example, the domain manager, DFHDMDM). A message is issued to this effect.

Message DFHME0116 should be produced containing the symptom string for this problem.

User response: Notify the system programmer. If CICS is still running, it is necessary to decide whether to terminate CICS.

Look up the MVS code, if there is one, in the relevant MVS codes manual.

Next, look up the CICS alphanumeric code. This tells you, for example, whether the error was a program check, an abend, or a runaway, and may give you some guidance concerning user response.

If module *modname* is not crucial to the running of your CICS system, you may decide to continue to run and bring CICS down at a convenient time to resolve the problem. If you cannot run without the full use of module *modname* you should bring CICS down in a controlled shutdown.

You need further assistance from IBM to resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHSOCK

XMEOUT Parameters: *applid, aaa/bbbb, X'offset', modname*

Destination: Console

DFHSO0002 *applid* **A severe error (code** *X'code'***) has occurred in module** *modname***.**

Explanation: An error has been detected in module *modname*. The code X'*code* is the exception trace point ID which uniquely identifies what the error is and where the error was detected.

System action: An exception entry (code X'*code* in the message) is made in the trace table. A system dump is taken, unless you have specifically suppressed dumps in the dump table.

CICS continues unless you have specified in the dump table that CICS should terminate. If appropriate, an error return code is sent to the caller of this domain. In this case, CICS could be terminated by the caller (for example, the domain manager, DFHDMDM). A message is issued to this effect.

If the exception entry made in the trace table has a trace ID with a value of X'0425, message DFHKE0501 was issued by the CICS Kernel earlier during CICS initialization.

Message DFHME0116 should be produced containing the symptom string for this problem.

User response: This indicates a possible error in CICS code. The severity of its impact depends on the importance of the function being executed at the time of the error.

If the exception entry made in the trace table has a trace ID with a value of X'0425, further information can be found in message DFHKE0501 issued by the CICS Kernel earlier during CICS initialization.

CICS may not have been terminated. If the message occurs once and module *modname* is not crucial to the running of your CICS system, you may decide to continue to run and bring CICS down at a convenient time to resolve the problem.

If the message recurs or if you cannot run without the full use of module *modname*, you should bring CICS down in a controlled shutdown.

You need further assistance from IBM to resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHSODM, DFHSOL, DFHSOCK, DFHSORD, DFHSOIS.

XMEOUT Parameters: *applid, X'code',modname*

Destination: Console

DFHSO0004 *applid* **A possible loop has been detected at offset** *X'offset'* **in module** *modname***.**

Explanation: A CICS function is taking more time to process than CICS expects. A possible loop has been detected in module *modname* at offset X'*offset*. This is the offset of the instruction which happened to be executing at the time when the error was detected.

System action: An exception entry is made in the trace table.

A system dump is taken unless you have specifically suppressed the dump (by a user exit program at the XDUREQ exit, in the dump table or by global system dump suppression). CICS processing continues unless you have specified in the dump table that CICS should terminate.

Message DFHME0116 should be produced containing the symptom string for this problem.

User response: If CICS has not been terminated, it is necessary to decide whether the problem is serious enough to bring CICS down.

Since some CICS functions can use a lot of CPU time, this message may have been caused by a long-running function, and there may not be an error. Usually, CICS purges a CICS function which exceeds the runaway task time interval that you have specified in the ICVR system initialization parameter. This means that execution of module *modname* is terminated and CICS continues.

If you have specified system initialization parameter ICVR=0 and you consider that module *modname* is looping, you must terminate CICS in order to terminate the runaway function.

If CICS has terminated module *modname*, and you consider that it was not a runaway, you should increase the value of the ICVR system initialization parameter. You have to close down CICS at a suitable time to do this permanently. You can change the ICVR time interval temporarily online using the CEMT transaction.

If raising the ICVR time does not solve the problem,

you may need further assistance from IBM to resolve the problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHSOCK, DFHSOSE

XMEOUT Parameters: *applid, X'offset', modname*

Destination: Console

DFHSO0100I *applid* **Sockets domain initialization has started.**

Explanation: This is an informational message indicating that sockets domain initialization has started.

System action: System initialization continues.

User response: None. The message can be suppressed with the system initialization parameter MSGLVL=0.

Module: DFHSODM

XMEOUT Parameter: *applid*

Destination: Console

DFHSO0101I *applid* **Sockets domain initialization has ended.**

Explanation: This is an informational message indicating that sockets domain initialization has completed successfully.

System action: System initialization continues.

User response: None. The message can be suppressed with the system initialization parameter MSGLVL=0.

Module: DFHSODM

XMEOUT Parameter: *applid*

Destination: Console

DFHSO0102 *date time applid* **A UNIX System Services Assembler Callable Service error (code** *X'code'***) has occurred on receipt of a severe TCP/IP return code; the TCPIPSERVICE** *tcpipservice* **on port** *portnumber* **at IP address** *ipaddress* **will be closed.**

Explanation: An error has been detected in DFHSOLS. The error has been caused by a severe return code received from TCP/IP.

System action: An exception entry X'*code* is made in the trace table. No system dump is taken, unless you have specifically requested a dump in the dump table.

CICS continues unless you have specified in the dump table that CICS should terminate.

The TCPIPSERVICE *tcpipservice* on port *portnumber* at the specified IP address will be shutdown. When this is complete then message DFHSO0108 will be issued. Message DFHME0116 should be produced containing the symptom string for this problem.

User response: This error could have been returned if TCP/IP had been shutdown, for example. The exception trace entry will tell you which service routine was called and the return values that were returned. Refer to the z/OS UNIX System Services Messages and Codes book to determine the cause of the error.

The TCPIPSERVICE *tcpipservice* will be closed, and after the TCP/IP region has been restarted the closed TCPIPSERVICE should be reopened. At this point normal work can resume on the TCPIPSERVICE.

Module: DFHSOLS

XMEOUT Parameters: *date, time,applid, X'code', tcpipservice,portnumber, ipaddress*

Destination: Console and Transient Data Queue CSOO

DFHSO0103 *applid* **ENCRYPTION=***level* **is not available on this system.**

Explanation: The ENCRYPTION=*level* system initialization parameter was specified, where *level* may be STRONG or NORMAL, but the necessary feature to implement it was not installed on your system.

System action: Sockets Domain initialization fails, and CICS terminates.

User response: If you wish to use STRONG encryption with the secure sockets layer, you must order and install the z/OS Security level 3 feature.

If the feature is unavailable, you must specify ENCRYPTION=NORMAL, which is the default.

In France, you must specify ENCRYPTION=WEAK unless you have ordered and installed the standard encryption feature for z/OS, when you may specify ENCRYPTION=NORMAL.

Module: DFHSODM

XMEOUT Parameters: *applid, level*

Destination: Console Routecodes 2, 9, 10 and 11

DFHSO0104 *applid* **Secure sockets program** *pgmname* **could not be loaded. Secure Sockets Layer is not available.**

Explanation: The program module *pgmname*, which is required to implement the secure sockets layer, could not be loaded.

If *pgmname* is GSKCMS, GSKSSL, or GSKX509, the System SSL component of z/OS is not available in your release of z/OS, or it has not been installed properly.

System action: System initialization continues, but support for the secure sockets layer is not enabled.

User response: If this message is preceded by message

DFHSO0103, try restarting CICS with ENCRYPTION=NORMAL.

If *pgmname* is GSKCMS, GSKSSL, or GSKX509, ensure that the System SSL library is available to CICS. This library is *prefix*..SGSKLOAD, where *prefix* is defined by the installation. You should ensure that it is installed in the system linklist or referenced in the STEPLIB concatenation in the CICS JCL. If it is included in the CICS STEPLIB the library must be APF-authorized.

Module: DFHSODM

XMEOUT Parameters: *applid, pgmname*

Destination: Console Routecodes 2, 9, 10 and 11

DFHSO0105 *applid* **ENCRYPTION=***level* **is not available on this system. ENCRYPTION=WEAK is used instead.**

Explanation: The ENCRYPTION=NORMAL system initialization parameter was specified, but the necessary feature to implement it was not installed on your system, and is not available to be ordered at your level of operating system.

System action: The lower level of encryption corresponding to ENCRYPTION=WEAK is used instead.

User response: None. The encryption support required for ENCRYPTION=NORMAL will be available in OS/390 Version 2 Release 8. With that level of operating system, the system initialization parameter will be honored and this message will not appear.

Module: DFHSODM

XMEOUT Parameters: *applid, level*

Destination: Console Routecodes 2, 9, 10 and 11

DFHSO0106 *date time applid* **A UNIX System Services Assembler Callable Service error (code** *X'code'***) has occurred in module** *modname***.**

Explanation: An error has been detected in module *modname*. The code X'*code* is the exception trace point ID which uniquely identifies what the error is and where the error was detected.

System action: An exception entry (code X'*code* in the message) is made in the trace table. A system dump is taken, unless you have specifically suppressed dumps in the dump table.

CICS continues unless you have specified in the dump table that CICS should terminate. If appropriate, an error return code is sent to the caller of this domain. In this case, CICS could be terminated by the caller (for example, the domain manager, DFHDMDM). A message is issued to this effect.

Message DFHME0116 should be produced containing the symptom string for this problem.

User response: This indicates a possible error in CICS code or the called Assembler Callable Service routine. The exception trace entry will tell you which service routine was called and the return values that were returned. Refer to the z/OS UNIX System Services Messages and Codes manual to determine the cause of the error. The severity of its impact depends on the importance of the function being executed at the time of the error.

CICS may not have been terminated. If the message occurs once and module *modname* is not crucial to the running of your CICS system, you may decide to continue to run and bring CICS down at a convenient time to resolve the problem.

If the message recurs or if you cannot run without the full use of module *modname*, you should bring CICS down in a controlled shutdown.

Module: DFHSOCK

XMEOUT Parameters: *date, time,applid, X'code', modname*

Destination: Console and Transient Data Queue CSOO

DFHSO0107 *date time applid* **TCPIPSERVICE** *tcpipservice* **has been opened on port** *portnumber* **at IP address** *ipaddress***.**

Explanation: The TCPIPSERVICE *tcpipservice* has been opened on port *portnumber* at the IP address specified.

If you have specified a low IPv6 address, that is, the address has leading zeros in the first six or more segments, CICS stores and displays the IPv6 address in IPv4 format.

System action: CICS continues.

User response: None.

Module: DFHSOCK

XMEOUT Parameters: *date, time, applid, tcpipservice, portnumber, ipaddress*

Destination: CSOO

DFHSO0108 *date time applid* **TCPIPSERVICE** *tcpipservice* **on port** *portnumber* **at IP address** *ipaddress* **has been closed.**

Explanation: The TCPIPSERVICE *tcpipservice* on port *portnumber* on the specified IP address has been closed.

System action: CICS continues.

User response: None.

Module: DFHSOCK

XMEOUT Parameters: *date, time,applid, tcpipservice, portnumber,ipaddress*

Destination: CSOO

DFHSO0109 *date time applid* **The TCPIPSERVICE** *tcpipservice* **could not be opened because the port** *portnumber* **is already in use on the IP address** *ipaddress* **.**

Explanation: This message is issued when the open of a TCPIPSERVICE cannot be completed. The port number specified is already in use in combination with the IP address. By default, TCP/IP allows only one server to be listening on a port at any one time.

Specifically, this message is issued when the TCP/IP bind call fails with a return code of EADDRINUSE.

System action: The TCPIPSERVICE does not open, but remains closed. An exception trace entry is written detailing the return values from the TCP/IP bind call. An application using the EXEC API to set the TCPIPSERVICE open receives an RESP(INVREQ) RESP2(9).

User response: Check that there are no other TCPIPSERVICES open using the same port number and IP address as the failing one. If there is another TCPIPSERVICE open using the port, it must be closed before the new one can be opened.

If no TCPIPSERVICESs are using the requested port, there might be another application acting as a TCP/IP server already listening on the port. Use the TSO command NETSTAT to display TCP/IP servers on the system. Choose an unused port for the TCPIPSERVICE.

If your system has more than one TCP/IP stack you can specify another stack's IP address on the TCPIPSERVICE definition. This will allow you to install multiple TCPIPSERVICEs each using the same port number. You can also configure support in TCP/IP for virtual IP addresses on a single system. This will also allow more than one TCPIPSERVICE to share the same port.

Finally, TCP/IP can be configured with port sharing. This allows multiple servers (TCPIPSERVICES) to use the same port with TCP/IP using load balancing to direct incoming connections to the set of servers on the port. If port sharing is enabled, multiple TCPIPSERVICEs can each be opened on the same IP address with the same port, if port sharing is supported by the protocol specified in the TCPIPSERVICE resource definition.

Module: DFHSOCK

XMEOUT Parameters: *date, time,applid, tcpipservice, portnumber,ipaddress*

Destination: CSOO

DFHSO0110 *date time applid* **The TCPIPSERVICE** *tcpipservice* **cannot be opened on the IP address** *ipaddress* **because the address is unknown to TCP/IP.**

Explanation: Opening the TCPIPSERVICE has failed because the IP address specified on the definition is not known to TCP/IP.

This message is issued when the TCP/IP bind call fails with the return value of EADDRNOTAVAIL.

System action: The IP address must be a valid address known to TCP/IP. It must also be an address that the TCP/IP stack supports. IPv6 addresses can only be supported if the stack is dual-mode and therefore supports IPv4 and IPv6 addresses. It is possible to configure multiple TCP/IP stacks for a single z/OS system, or to have virtual IP addresses on a single stack. If the system only has one IP address then the IP address field of the TCPIPSERVICE definition can be left blank, or specified as ANY. This causes the bind to use the default IP address for the system. To use an alternative, a valid address must be specified.

User response: Check that the address specified on the TCPIPSERVICE definition is known to TCPIP on the system.

If you have specified a low IPv6 address, that is, the address has leading zeros in the first six or more segments, CICS stores and displays the IPv6 address in IPv4 format.

If IPv6 addresses are being used, check that the TCP/IP stack supports IPv6. See the z/OS Communications Server IP Diagnosis Guide on using Netstat to find information about the stack.

Module: DFHSOCK

XMEOUT Parameters: *date, time, applid, tcpipservice, ipaddress*

Destination: CSOO

DFHSO0111 *date time applid* **Opening the TCPIPSERVICE** *tcpipservice* **has failed because the region jobname is not authorized to bind to port** *portnumber***.**

Explanation: Opening the TCPIPSERVICE has failed because the jobname of the region is not authorized to use the port number specified.

Binding to port numbers below 1024 requires TCP/IP configuration directives specifying the CICS jobname to TCP/IP and associating it with the specified port. This may also be done for ports greater than 1024, thus a CICS region may also fail to open a port greater than 1024 if the port has been associated with another job.

This message is issued when the TCP/IP bind call fails with a return value of EPERM.

System action: The TCPIPSERVICE is not opened. If

an application has used the EXEC API to open the TCPIPSERVICE, it receives RESP(INVREQ) RESP2(3) values.

User response: The CICS region's jobname must be authorized to open the specified port. Consult the z/OS Communications Server IP Configuration Guide for details on how to do this.

Module: DFHSOCK

XMEOUT Parameters: *date, time,applid, tcpipservice, portnumber*

Destination: CSOO

DFHSO0112 *date time applid* **TCPIPSERVICE** *tcpipservice* **cannot be opened because TCPIP status is not OPEN.**

Explanation: Opening the TCPIPSERVICE has failed because TCPIP is currently not open. Either TCPIP=NO has been specified in the SIT or TCPIP has been dynamically closed using CEMT or an SPI command.

System action: The TCPIPSERVICE is not opened. If an application has used the EXEC API to open the TCPIPSERVICE, it receives RESP(INVREQ) RESP2(4) values.

User response: Open TCPIP and re-open the TCPIPSERVICE.

Module: DFHSORD

XMEOUT Parameters: *date, time,applid, tcpipservice*

Destination: CSOO

DFHSO0113 *applid* **The IP address** *ip_address* **cannot be resolved to a host name by the Gethostbyname function.**

Explanation: CICS has issued the TCP/IP function Gethostbyname to resolve the IP address *ip_address* to a host name, but the call failed.

System action: An exception trace entry is made. CICS will continue to attempt to access the name server for subsequent requests.

User response: The Gethostbyname function will usually perform a name server reverse lookup to resolve the IP address into a host name. This can fail if CICS is unable to contact a name server, or the name server does not know the correct host name to IP address mapping.

Check that the name server defined to TCP/IP in the /etc/resolv.conf file is valid and responding correctly. You can issue the TSO NSLOOKUP command to query the name server. If a SYSTCPD DD name has been defined in the CICS job, check that the file it references correctly defines the name server. If the name server is defined correctly to CICS then contact the administrator to determine why the IP address lookup has failed.

Module: DFHSOIS

Module: **XMEOUT Parameters:** *applid, ip_address*

Destination: Console

DFHSO0114 *date time applid* **The socket listener cannot attach the transaction** *transaction***, the TCPIPSERVICE** *tcpipservice* **will be closed.**

Explanation: The TCP/IP listener task has received a connection from a client but the attach for the transaction associated with the TCPIPSERVICE definition has failed. The associated transaction may not have been installed or the TCPIPSERVICE definition could have specified the wrong transaction.

System action: The TCPIPSERVICE that is defined on the port that the connection arrived on is closed. The socket accepted for the client is closed.

User response: Determine why the attach for the transaction has failed. Correct the error and re-open the TCPIPSERVICE.

Module: DFHSOCK

XMEOUT Parameters: *date, time,applid, transaction, tcpipservice*

Destination: CSOO

DFHSO0115 *date time applid* **CICS has registered the group name** *groupname* **with Workload Manager. The TCP/IP host name** *genericname* **will become available for DNS connection optimization.**

Explanation: The group name has been registered with Workload Manager for Domain Name Service (DNS) connection optimization. This occurs when a TCPIPSERVICE is opened where its name begins with the character 'D'. The new generic TCP/IP host name becomes available for clients to use to access the CICS system, and any others that have registered with the named group name.

System action: CICS has issued the Workload Manager macro IWMSRSRG to register the specified group name for DNS connection optimization. This only occurs when the name of the TCPIPSERVICE begins with a 'D'. Workload manager registration only occurs once for a given group name. If multiple TCPIPSERVICES define the same group name, then registration will only occur once.

The group name registered is taken from a combination of part of the name of the TCPIPSERVICE and the transaction defined for the TCPIPSERVICE. Any characters of the name following a dot '.' are concatenated with the transaction identifier to form the group name. For example, a TCPIPSERVICE has the name D1.CICS and is defined with the transaction IIOP (the IIOP transaction being an alias of the

CICS-supplied CIRR transaction). The group name generated is 'CICSIIOP'. If the TCPIPSERVICE name does not contain a dot, then only the transaction identifier is used. For example, a TCPIPSERVICE with a name of 'DYNWEB' and a transaction of WWW will generate a registration for the group 'WWW'.

The group name registered effectively becomes a new name in the sysplex TCP/IP domain. When multiple CICS systems in a sysplex each register with the same group name, the DNS server uses Workload Manager to resolve the group name into one of the IP addresses of the associated systems. The IP address returned is that of the system that is most eligible according to Workload Manager's load balancing rules. For example, two z/OS systems in a sysplex are mvs1.plex.hursley.ibm.com and mvs2.plex.hursley.ibm.com; and on each system, CICS registers with the group name cicsiiop. The new name cicsiiop.plex.hursley.ibm.com is dynamically added to the DNS name server's tables. Client TCP/IP applications can use this name instead of the name of one of the specific z/OS images. When a client resolves the name to an IP address using the DNS, it will get the IP address of the most eligible system. Since the DNS dynamically knows when systems register and deregister, additional CICS systems can be registered as required to expand the list of available IP addresses returned for a group name. If a system fails, its IP address will be removed from the DNS server's list of associated addresses for any groups with which it was registered.

User response: No user action is necessary.

Module: DFHSOCK

XMEOUT Parameters: *date, time, applid, groupname, genericname*

Destination: CSOO

DFHSO0116 *date time applid* **CICS has deregistered the group name** *groupname* **with Workload Manager.**

Explanation: The group name has been deregistered from Workload Manager. This CICS system will no longer participate in connection optimization in the group specified. This occurs when a TCPIPSERVICE is closed where its name begins with a 'D'.

System action: The Workload Manager IWMSRDRS call is made to deregister the group name. This will remove the IP address of the system from the table of the DNS server that is associated with the group name.

If more than one open TCPIPSERVICE share the same group name, then the WLM deregistration only occurs when the last one is closed.

User response: Check the availability of the name server.

Module: DFHSOCK

XMEOUT Parameters: *date, time, applid, groupname*

Destination: CSOO

DFHSO0117 *applid* **Unable to determine the TCP/IP host name. UNIX System Services return code** *X'retcode'***, reason code** *X'rc'***.**

Explanation: A gethostname call has received a non-zero return code/reason code during Listener initialization or has returned a blank hostname.

System action: Listener initialization continues.

User response: Determine the reason for the gethostname failure. The return code and reason code included in the message text are described in the z/OS UNIX System Services Messages and Codes manual.

Module: DFHSOLS

XMEOUT Parameters: *applid, X'retcode', X'rc'*

Destination: Console

DFHSO0118 *applid* **The GETHOSTBYADDR call to resolve IP address** *IP_ADDRESS* **to a host name took over 3 seconds to complete.**

Explanation: CICS has issued the TCP/IP function gethostbyaddr to resolve the IP address *ip_address* to a host name. This call took greater than three seconds during which time the sockets TCB was blocked. During this time no socket IO was possible.

System action: CICS continues.

User response: The gethostbyaddr function will usually perform a name server reverse lookup to resolve the IP address into a host name. This call took over three seconds to complete. The gethostbyaddr function is most commonly driven by EXEC CICS EXTRACT TCPIP CLIENTNAME.

Check that the name server defined to TCP/IP in the /etc/resolv.conf file is valid and responding correctly. You can issue the TSO NSLOOKUP command to query the name server. If a SYSTCPD DD name has been defined in the CICS job, check that the file it references correctly defines the name server. If the name server is defined correctly to CICS then contact the administrator to determine why the IP address lookup failed to respond in a timely fashion. The TCP/IP RESOLVERTIMEOUT parameter can be used to control the duration of a gethostbyaddr call.

Module: DFHSOIS

XMEOUT Parameters: *applid, ip_address*

Destination: Console

DFHSO0119 *applid* **Unable to register service** *servicename* **for WLM DDNS on host** *hostname***.**

Explanation: During activation of a TCPIPSERVICE, the Sockets Domain was unable to locate a TCP/IP hostname. Without a hostname, CICS cannot obtain the information necessary for registration with WLM DDNS.

System action: TCPIPSERVICE activation continues, but this service is not registered with WLM DDNS.

User response: Determine why no hostname was returned. Message DFHSO0113 may have preceded this message. Once the problem has been rectified, re-install the TCPIPSERVICE.

Module: DFHSOLS

XMEOUT Parameters: *applid, servicename, hostname*

Destination: Console

DFHSO0120 *applid numtcbs* **TCBs are initialized for SSL processing.**

Explanation: The specified number (*numtcbs*) of TCBs have been attached and initialized to perform Secure Sockets Layer processing for CICS.

System action: CICS can handle *numtcbs* simultaneous SSL sessions.

User response: None.

Module: DFHSOSE

XMEOUT Parameters: *applid, numtcbs*

Destination: Console Routecodes 2 and 10

DFHSO0121 *applid* **No TCBs have been initialized for SSL processing. Secure Sockets Layer has been deactivated.**

Explanation: CICS requires at least one TCB to be successfully initialized to handle the TCP/IP Secure Sockets Layer, but it has been unable to initialize any.

System action: CICS cannot handle any SSL sessions, so attempts to open TCPIPSERVICEs which specify SSL(YES) or SSL(CLIENTAUTH) will fail.

User response: The REGION size of the CICS address-space is probably too small to allow CICS Secure Sockets Layer to be initialized. Restart CICS with a larger REGION size. None.

Module: DFHSOSE

XMEOUT Parameter: *applid*

Destination: Console Routecodes 2 and 10

DFHSO0122 *date time applid* **SSL request from** *ipaddr* **on TCPIPSERVICE(***service***) rejected because of insufficient TCBs.**

Explanation: An Secure Sockets Layer connection from a client with address *ipaddr* was received on TCPIPSERVICE(*service*), but there were no available TCBs to process the request.

System action: The socket for the connection is closed. No message is sent to the client because the client expects the response to be encrypted by SSL, but SSL services cannot be provided.

User response: If this message occurs frequently, consider raising the value of the MAXSSLTCBS system initialization parameter.

Module: DFHSOSE

XMEOUT Parameters: *date, time,applid, ipaddr, service*

Destination: CSOO

DFHSO0123 *date time applid* **Return code** *rc* **received from function '**{*unknown* | *gsk_environment_init* | *gsk_environment_open* | *gsk_environment_close* | *gsk_secure_socket_init* | *gsk_secure_socket_open* | *gsk_secure_socket_close* | *gsk_secure_socket_read* | *gsk_secure_socket_write* | *gsk_attribute_set_buffer* | *gsk_attribute_set_callback* | *gsk_attribute_set_enum* | *gsk_attribute_set_numeric_value*}**' of System SSL. Reason:** {*Unrecognized return code* | *Key database not found* | *Key database access not authorized* | *Invalid password for key database* | *Expired password for key database* | *Stashed password file not found* | *Session timeout value is invalid* | *An I/O error occurred* | *An unknown error occurred* | *Invalid distinguished name* | *No common ciphers negotiated* | *No certificate available* | *Certificate rejected by peer* | *Root certificate authority not supported* | *Unsupported operation* | *Invalid certificate signature* | *SSL protocol violation* | *Not authorized* | *Self-signed certificate* | *Invalid session state* | *Handle creation failed* | *No private key* | *Untrusted Certificate Authority* | *Certificate date invalid* | *Invalid cipher suite* | *Handshake abandoned by peer* | *Cannot open key database* | *Host certificate not yet valid* | *Certificate parsing error* | *Certificate is revoked* | *LDAP server is inactive* | *Unknown Certificate Authority* | *Internal error on partner* | *Unknown alert received* | *Client authentication alert* | *Incorrect key usage* | *Server name not recognized*}**. Peer:** *peeraddr***, TCPIPSERVICE:** *tcpipservice***.**

Explanation: A non-zero return code *rc* was received from the specified function of the z/OS System SSL service. A brief interpretation of the return code is shown. The service was processing a connection with a partner at IP address *peeraddr* to TCPIPSERVICE *tcpipservice*.

System action: The secure sockets operation is abandoned. A sockets domain severe error message, DFHSO0002, may be produced with error code X'080C'.

User response: If this message is not accompanied by message DFHSO0002, the error is probably due to some unexpected action by the connected partner, and this message is for information only. If this message is accompanied by message DFHSO0002, the error is probably due to some sort of configuration error. Use the description in the message to determine what is wrong. For descriptions of the return code *rc*, see *z/OS System SSL Programming*, SC24-5901. For further guidance see the *CICS Internet Guide*. If the brief interpretation of the return code is *Certificate date invalid* the certificate may either have expired or be not yet valid, and may refer to either the local certificate or the remote partner's certificate.

Module: DFHSOSE

XMEOUT Parameters: *date, time,applid, rc, {0=unknown, 11=gsk_environment_init, 12=gsk_environment_open,13=gsk_environment_close, 14=gsk_secure_socket_init, 15=gsk_secure_socket_open,16=gsk_secure_socket_close, 17=gsk_secure_socket_read, 18=gsk_secure_socket_write,19=gsk_attribute_set_buffer, 20=gsk_attribute_set_callback, 21=gsk_attribute_set_enum, 22=gsk_attribute_set_numeric_value}, {0=Unrecognized return code, 1=Key database not found,2=Key database access not authorized, 3=Invalid password for key database, 4=Expired password for key database, 5=Stashed password file not found, 6=Session timeout value is invalid, 7=An I/O error occurred, 8=An unknown error occurred,16=Invalid distinguished name, 17=No common ciphers negotiated, 18=No certificate available, 19=Certificate rejected by peer, 20=Root certificate authority not supported, 21=Unsupported operation, 22=Invalid certificate signature, 23=SSL protocol violation, 24=Not authorized,25=Self-signed certificate, 26=Invalid session state, 27=Handle creation failed,28=No private key, 29=Untrusted Certificate Authority, 30=Certificate date invalid, 31=Invalid cipher suite,32=Handshake abandoned by peer, 33=Cannot open key database, 34=Host certificate not yet valid, 35=Certificate parsing error, 36=Certificate is revoked,37=LDAP server is inactive, 38=Unknown Certificate Authority, 39=Internal error on partner, 40=Unknown alert received,41=Client authentication alert, 42=Incorrect key usage, 43=Server name not recognized}, peeraddr, tcpipservice*

Destination: CSOO

DFHSO0124 *applid* **The MAXSOCKETS system initialization parameter has a value of** *mmmmm* **which exceeds the MAXFILEPROC value of** *nnnnn***. The MAXSOCKETS value has been set to the lower value.**

Explanation: The value specified in the MAXSOCKETS system initialization parameter is greater than the value specified in the z/OS UNIX System Services MAXFILEPROC option.

CICS has attempted to set the MAXSOCKETS value higher than the MAXFILEPROC value, but has been unable to do so because the userid under which CICS is running does not have superuser authority.

System action: CICS continues execution with the MAXSOCKETS value set equal to the MAXFILEPROC value.

User response: You may

- Restart CICS with a value of MAXSOCKETS that does not exceed MAXFILEPROC. This will limit the number of sockets that CICS can have active at one time.
- Increase the MAXFILEPROC value and then restart CICS. This will affect all z/OS UNIX System Services processes in this system.
- Restart CICS with a userid that has superuser authority.

Module: DFHSOIS

XMEOUT Parameters: *applid, mmmmm,nnnnn*

Destination: Console

DFHSO0125 *applid* **The MAXSOCKETS parameter retrieved from the catalog has a value of** *mmmmm* **which exceeds the MAXFILEPROC value of** *nnnnn***. The MAXSOCKETS value has been set to the lower value.**

Explanation: The value of the MAXSOCKETS system initialization parameter retrieved from the catalog during a warm or emergency restart is greater than the value specified in the z/OS UNIX System Services MAXFILEPROC option.

CICS has attempted to set the MAXSOCKETS value higher than the MAXFILEPROC value, but has been unable to do so, because the userid under which CICS is running does not have superuser authority.

This situation may arise when

- CICS was previously running under a userid that had superuser authority, but has restarted under a different userid
- CICS was previously running under a userid that had superuser authority, but the authority was changed before CICS restarted
- CICS was previously running under a userid that did not have superuser authority, and the value of MAXFILEPROC was reduced before CICS restarted.

System action: CICS continues execution with the MAXSOCKETS value set equal to the MAXFILEPROC value.

User response: You may

- Restart CICS with a value of MAXSOCKETS that does not exceed MAXFILEPROC. This will limit the number of sockets that CICS can have active at one time.
- Increase the MAXFILEPROC value and then restart CICS. This will affect all z/OS UNIX System Services processes in this system.
- Restart CICS with a userid that has superuser authority.

Module: DFHSOIS

XMEOUT Parameters: *applid, mmmmm,nnnnn*

Destination: Console

DFHSO0126W *applid* **An attempt to create a socket has failed because the MAXSOCKETS limit has been reached.**

Explanation: An attempt to create a tcpip socket has failed as the number of open sockets in the system would exceed the current MAXSOCKETS value.

System action: The socket is not opened and failure is reported.

User response: If this behaviour is undesireable, use CEMT SET TCPIP to increase the number of sockets in the system.

Module: DFHSOMG

XMEOUT Parameter: *applid*

Destination: Console

DFHSO0128A *applid* **Information to specify a bind to an LDAP server cannot be obtained from the PROXY segment of CRLPROFILE** *profile***.**

Explanation: The CRLPROFILE system initialization parameter has been specified, but the information required by CICS and System SSL to perform a bind to an LDAP server cannot be obtained from the profile that it identifies.

CICS has attempted to extract the following information from the PROXY segment of the profile *profile* in the LDAPBIND class of the external security manager's database

LDAPHOST
The Uniform Resource Locator (URL) of an LDAP server that contains certificate revocation information

BINDDN
The LDAP distinguished name of a user who is authorized to access certificate revocation lists in the specified LDAP server

BINDPW
The password used to authenticate the user specified by BINDDN.

Either the specified profile does not exist, or CICS does not have authority to access the profile, or one or more of the required components are missing from the profile.

System action: The CICS SSL function cannot retrieve certificate revocation lists to determine whether certificates have been revoked. To prevent further error messages, the CRLPROFILE function has been disabled. Therefore CICS will be unable to check whether SSL certificates are revoked.

User response: Ensure that the *profile* profile in the

LDAPBIND class of the security manager is defined with a PROXY segment that contains all three required components. Also ensure that the CICS region userid had READ access to the profile, then restart CICS.

Module: DFHSOSE

XMEOUT Parameters: *applid, profile*

Destination: Console Routecodes 2, 9 and 10

DFHSO0129A *applid* **The LDAP server whose name was obtained from CRLPROFILE is inactive. Certificate revocation checks have been disabled.**

Explanation: The LDAP server, whose name was obtained from the PROXY segment of the external security manager's profile specified by the CRLPROFILE system initialization parameter, cannot be accessed.

System action: The CICS SSL function cannot retrieve certificate revocation lists to determine whether certificates have been revoked. To prevent further error messages, the CRLPROFILE function has been disabled. CICS will not make any further attempts to acquire certificate revocation lists from the LDAP server. Therefore CICS will be unable to check whether SSL certificates are revoked.

User response: To re-enable certificate revocation list checking, the LDAP server specified within the CRLPROFILE must be restarted. All CICS systems, that specify a CRLPROFILE definition that references this server, must then also be restarted.

Module: DFHSOSE

XMEOUT Parameter: *applid*

Destination: Console Routecodes 2, 9 and 10

DFHSO0130 *date time applid* **A TCP/IP ACCEPT call has failed. The TCPIPSERVICE** *tcpipservice* **on port** *portnumber* **at IP address** *ipaddress* **will be closed. The values returned are bpx_return_value(** *bpx return value* **), bpx_return_code(** *bpx_return_code* **), and bpx_reason_code(** *bpx_reason_code* **).**

Explanation: A TCP/IP ACCEPT call has returned an error.

System action: An exception trace entry is made in the trace table. No system dump is taken, unless you have specifically requested a dump in the dump table.

CICS continues unless you have specified in the dump table that CICS should terminate.

The TCPIPSERVICE *tcpipservice* on port *portnumber* at the specified IP address is shutdown. When this shutdown is complete message DFHSO0108 is issued.

The return value, return code and reason code reported by Unix System Services are displayed to aid with diagnostics.

User response: Determine the reason for the ACCEPT failure. The return code and reason code included in the message text are described in the z/OS UNIX System Services Messages and Codes manual. A possible cause of this error is if TCP/IP has reached MAXSOCKETS. Check the system console for any messages issued by TCP/IP and take the recovery action indicated.

The TCPIPSERVICE *tcpipservice* is closed, and after the TCP/IP problem has been resolved, the closed TCPIPSERVICE should be reopened.

Module: DFHSOLS

XMEOUT Parameters: *date, time,applid, tcpipservice, portnumber,ipaddress, bpx return value, bpx_return_code, bpx_reason_code*

Destination: Console

DFHSO0131 *date time applid* **The TCPIPSERVICE** *tcpipservice* **cannot be opened on the IP address** *ipaddress* **because the maximum number of ports has been reached.**

Explanation: Opening the TCPIPSERVICE has failed because the maximum number of ports allowed has been reached.

This message is issued when the TCP/IP bind call fails with the return value of EADDRNOTAVAIL and reason code X'744C7231.

System action: The request to open the TCPIPSERVICE will fail until a port becomes available.

User response: The request should be retried when a port is available.

Module: DFHSOCK

XMEOUT Parameters: *date, time,applid, tcpipservice, ipaddress*

Destination: CSOO

DFHSO0132 An invalid function has been passed to DFHSOLX.

Explanation: An internal error has been detected in the Socket TCPIP exit program. The function passed to DFHSOLX could not be recognised.

System action: CICS issues this message which could be used to to trap the error and take a dump for further diagnosis.

User response: You may need further assistance from IBM to solve this problem.

Module: DFHSOLX

Destination: Console

DFHSO0133 *date time applid* **TCPIPSERVICE** *tcpipservice* **has been installed.**

Explanation: This is an audit log message indicating that TCPIPSERVICE *tcpipservice* has been added to the system using the INSTALL command.

System action: The system continues normally.

User response: None.

Module: DFHSOAD

XMEOUT Parameters: *date, time,applid, tcpipservice*

Destination: CADL

DFHSO0134A *applid* **TCPIPSERVICE** *tcpipservice* **was not restored because its certificate is invalid.**

Explanation: The certificate that was specified on TCPIPSERVICE *tcpipservice* was valid when the resource was installed, but invalid when CICS restarted.

System action: The TCPIPSERVICE is not restored from the catalog.

User response: Investigate why the certificate has become invalid and replace it with a valid certificate. Then reinstall TCPIPSERVICE *tcpipservice* manually.

Module: DFHSOTD

XMEOUT Parameters: *applid, tcpipservice*

Destination: Console Routecodes 2, 10 and 11

DFHSO0135 *applid* **An attempt to switch to an S8 SSL TCB has failed because the request has timed out.**

Explanation: An attempt to switch to an S8 SSL TCB has failed because the request has timed out.

System action: The SSL request is not performed and the task is purged.

User response: Increase the number of S8 SSL TCBs available to the CICS sockets domain by changing the MAXSSLTCBS value, either in the SIT or via the CEMT SET DISPATCHER command.

Module: DFHSOSE

XMEOUT Parameter: *applid*

Destination: Transient Data Queue CSOO

DFHSRnnnn messages

DFHSR0001 *applid* **An abend (code** *aaa/bbbb***) has occurred at offset** *X'offset'* **in program** *progname***.**

Explanation: An abnormal end (abend) or program check has occurred in program *progname*. Storage protection is active, and CICS was executing in USER key at the time of the abend or program check.

The code *aaa* is a three digit hexadecimal MVS system completion code (for example, 0C1 or D37). If an MVS code is not applicable, this field is filled with three hyphens. The four digit code *bbbb*, which follows *aaa*, is a user abend code, produced either by CICS or by another product on the user's system. Message DFHME0116 should be produced containing the symptom string for this problem.

System action: An exception trace entry is made giving details of the error. System dump SR0001 is taken unless you have specifically suppressed dumps for that dumpcode in the dump table.

CICS continues and abends the transaction, unless you have specified in the dump table that CICS should terminate. The transaction abend code is ASRA, ASRB, ASRD or ASRE.

User response: As the execution key was USER key, *modname* is probably a customer application program. Review this program and correct the error.

Note that if the error was an 0C4 program check caused by an attempt to overwrite a CICS DSA, the exception trace entry indicates which DSA the program attempted to overwrite. If this is the case, also refer to the explanation for message DFHSR0622.

For advice on problem determination, refer to the *CICS Problem Determination Guide*.

Report the details of the symptom string given in message DFHME0116. It will aid problem determination.

If you want to suppress system dumps that precede ASRA, ASRB, ASRD or ASRE abends when the execution key is USER, you must specify this on an entry in the dump table for system dumpcode SR0001. Use either CEMT or an EXEC CICS command. Further guidance on this can be found in the *CICS System Definition Guide*.

Module: DFHSRP

XMEOUT Parameters: *applid, aaa/bbbb, X'offset', progname*

Destination: Console

DFHSR0601 *applid* **Program interrupt occurred with system task** *taskid* **in control**

Explanation: A program check has been detected in a system task. *taskid* is the system task identifier (for example, TCP, III) as set in field TCAKCTTA.

System action: CICS abnormally terminates with

system dump SR0601 and an exception trace entry which gives the kernel error data for the program check.

User response: Use the dump to determine the cause of the program check. The most likely causes are either an error in a CICS module, or an error in a user-written PLT program.

For advice on problem determination, refer to the *CICS Problem Determination Guide*.

Module: DFHSRP

XMEOUT Parameters: *applid, taskid*

Destination: Console

DFHSR0602 *applid* **Program interrupt routine has been entered while processing program interrupt for same task**

Explanation: A program check occurred. CICS started to abend the task with an abend code of ASRA when another program check occurred. As this is a potentially recursive situation, DFHSRP terminates CICS.

System action: CICS abnormally terminates with system dump SR0602 and exception trace entries giving the kernel error data for each program check.

User response: Try to discover where and why the first program check occurred. The most likely cause is an error in the application program. The second program check may be due to a CICS error while terminating the task.

For advice on problem determination, refer to the *CICS Problem Determination Guide*.

Module: DFHSRP

XMEOUT Parameter: *applid*

Destination: Console

DFHSR0603 *applid* **Program interrupt has occurred**

Explanation: A program check occurred, and CICS did not attempt to recover, because SRT=NO was specified in the system initialization table or by the operator at start-up time.

System action: CICS abnormally terminates with system dump SR0603 and an exception trace entry giving the kernel error data for the program check.

User response: Initially, check that the specification of SRT=NO is correct. If it is incorrect, change it as described in the *CICS System Definition Guide*.

For advice on problem determination, refer to the *CICS Problem Determination Guide*.

Module: DFHSRP

XMEOUT Parameter: *applid*

Destination: Console

DFHSR0605 *applid* **Error from KE Domain - DFHSRP initialization**

Explanation: Module DFHSRP has detected a severe error during the initialization phase of CICS. It is unlikely that any recovery functions can run until the error is found and corrected.

System action: CICS abnormally terminates with system dump SR0605.

User response: Use the dump to determine, if possible, the cause of the problem and what must be done to correct it.

For advice on problem determination, refer to the *CICS Problem Determination Guide*

Module: DFHSRP

XMEOUT Parameter: *applid*

Destination: Console

DFHSR0606 *applid* **Abend (code** *aaa/bbbb***) has been detected.**

Explanation: DFHSRP has detected an abnormal termination which CICS is not able to handle fully (for example, the abend code cannot be found in the SRT). In this instance it is the CICS system and not merely a transaction, that has abnormally terminated.

The code *aaa* is a three digit hexadecimal MVS system completion code (for example, 0C1 or D37). If an MVS code is not applicable, this field is filled with three hyphens. The four digit code *bbbb*, which follows *aaa*, is a user abend code produced either by CICS or by another product on the user's system.

System action: CICS abnormally terminates. A system dump (dumpcode SR0606) can be taken with this message depending on the abend code. An exception trace entry is produced giving the kernel error data for the abend.

User response: Use the dump to determine the abnormal termination, and to investigate its cause.

Module: DFHSRP

XMEOUT Parameters: *applid, aaa/bbbb*

Destination: Console

DFHSR0612 *applid* **Abend recovery has been entered by same task**

Explanation: An operating system abnormal termination occurred. CICS started to abend the task with abend code ASRB when another operating system abnormal termination occurred. As this is a potentially recursive situation, DFHSRP terminates CICS.

System action: CICS abnormally terminates with

system dump SR0612 and exception trace entries giving the kernel error data for each operating system abend.

User response: The most likely cause of the second operating system abend is an error in a global user exit program running at the XSRAB exit. This is the global user exit that can be invoked when an abend code is found in the SRT. If such a program was running, determine the cause of the second abend and take steps to prevent a recurrence.

Note that this message will also be issued if a global user exit program running at the XSRAB exit gets into a loop (runaway), or issues an unknown XPI call (kernerror). The second exception trace entry should help to diagnose this.

For advice on problem determination, see the *CICS Problem Determination Guide*.

Module: DFHSRP

XMEOUT Parameter: *applid*

Destination: Console

DFHSR0613 *applid* **Abend has occurred with system task** *taskid* **in control**

Explanation: An operating system abnormal termination has been detected in a system task. *taskid* is the system task identifier (for example, TCP, III) as set in field TCAKCTTA.

System action: CICS abnormally terminates with system dump SR0613 and an exception trace entry giving the kernel error data for the operating system abend.

User response: Use the dump to determine the cause of the abend, and take action to correct it.

For advice on problem determination, see the *CICS Problem Determination Guide*.

Module: DFHSRP

XMEOUT Parameters: *applid, taskid*

Destination: Console

DFHSR0615 *applid* **Program interrupt has occurred in recovery task**

Explanation: An operating system abnormal termination occurred. CICS started to abend the task with an abend code of ASRB when a program check occurred. DFHSRP terminates CICS.

System action: CICS abnormally terminates with system dump SR0615 and exception trace entries giving the kernel error data for the operating system abend and the program check.

User response: The most likely cause of the program check is an error in a global user exit program running at the XSRAB exit. This is the global user exit that can be invoked when an abend code is found in the SRT. If such a program was running, determine the cause of the program check and correct it.

For advice on problem determination, refer to the *CICS Problem Determination Guide*.

Module: DFHSRP

XMEOUT Parameter: *applid*

Destination: Console

DFHSR0618 *applid* **An illegal macro call or reference to the CSA or TCA has caused the abend which follows**

Explanation: A user program was executing which either contains an assembler macro which is no longer supported, or refers illegally to the CICS TCA or CSA. This error appears as an 0C4 program check.

System action: **Either** The transaction abends with abend code ASRD. This message is followed by message DFHAP0001 or DFHSR0001 which gives the name of the program in error and the offset into that program at which the error occurred.

Or This is a critical error and CICS is terminated. This message is followed by a DFHSR06xx message giving the reason for the termination.

User response: Review the program and correct the error.

If the error is in the module DFHUEHC, ensure that UEPCSA and UEPTCA are not being used because these reference fetch-protected storage.

Ensure the program is not using field CSAQRTCA (previously named CSACDTA) as this references fetch-protected storage.

For advice on problem determination, refer to the *CICS Problem Determination Guide*.

Module: DFHSRP

XMEOUT Parameter: *applid*

Destination: Console

DFHSR0619 *date time applid* **An illegal reference to the RCT has caused the abend which follows.**

Explanation: A user program was executing and referred illegally to the RCT. This error appears as an 0C4 program check.

System action: The transaction abends with abend code ASRE. This message is followed by message DFHAP0001 or DFHSR0001 which gives the name of the program in error and the offset into that program at which the error occurred.

User response: Review the program and correct the error by using the CICS supplied SPI commands to

retrieve information about CICS DB2 resource definitions.

For advice on problem determination, refer to the *CICS Problem Determination Guide*.

Module: DFHSRP

XMEOUT Parameters: *date, time,applid*

Destination: Console and Transient Data Queue CDB2

DFHSR0622 *applid* **An attempt to** *{overwrite \|access}* **the** *dsaname* **has caused the abend which follows**

Explanation: An 0C4 program interrupt (protection exception) has occurred. CICS has diagnosed the cause of the 0C4 as an attempt to either *access* or *overwrite* storage in DSA *dsaname*. The DSA is one of CDSA, RDSA, UDSA, ECDSA, ERDSA or EUDSA for *overwrite*, or either UDSA or EUDSA for *access*.

If *dsaname* **is CDSA or ECDSA**
CICS is running with storage protection active. Both the CDSA and the ECDSA therefore contain CICS key storage. They are write protected from user programs executing in User key. The most likely causes of the 0C4 are
- A program executing in CICS key passed the address of CICS key storage in the CDSA or ECDSA to a user program executing in User key and this user program attempted to write to this storage.
- A user program executing in User key contains an error and accidentally attempted to write to CICS key storage in the CDSA or ECDSA.
- A user program executing in User key deliberately attempted to write to CICS key storage in the CDSA or ECDSA.

If *dsaname* **is ERDSA or RDSA**
CICS may be running with or without storage protection active. The ERDSA or RDSA contains only reentrant CICS and user programs. If RENTPGM=PROTECT was specified as a system initialization parameter, the ERDSA or RDSA is write protected from programs executing in both CICS key and User key. If RENTPGM=NOPROTECT, the ERDSA or RDSA is only protected from user programs executing in User key. The most likely causes of the 0C4 are
- A user program residing in the ERDSA or RDSA has attempted to modify its own storage, (that is, the program is not reentrant).
- A user program contains an error and accidentally attempted to overwrite program storage in the ERDSA or RDSA.

If *dsaname* **is EUDSA or UDSA**
CICS is running with both storage protection and transaction isolation active. The EUDSA and UDSA contain only USER key non-shared storage. The most likely causes of the 0C4 are
- If the action is *overwrite*, a program has attempted to modify the non-shared storage belonging to another transaction.
- If the action is *access*, a program has attempted to either read storage or execute an instruction within another transaction's non-shared storage.

System action: Either, the transaction abends with abend code ASRA. This message is followed by message DFHAP0001 or DFHSR0001 which gives the name of the program in error and the offset into that program at which the error occurred. Additionally, an exception trace entry is taken which gives program, offset, execution key and the DSA in question.

Or, this is a critical error and CICS is terminated. This message is followed by a DFHSR06xx message giving the reason for the termination.

User response: Depending on the cause and *dsaname*, do one of the following
- Correct any error in the program.
- Redefine transactions with ISOLATE(NO) where they have to share storage.
- Change the program resource definition so that it executes in CICS key (and the basespace).
- Ensure that the program is not loaded into the ERDSA by not link-editing it with the RENT option.

Module: DFHSRP

XMEOUT Parameters: *applid, {1=overwrite, 2=access}, dsaname*

Destination: Console

DFHSTnnnn messages

DFHST0001 *applid* **An abend (code** *aaa/bbbb***) has occurred at offset** *X'offset'* **in module** *modname***.**

Explanation: An abnormal end (abend) or program check has occurred in module *modname*. This implies that there may be an error in CICS code.

Alternatively, unexpected data has been input, or storage has been overwritten. There is NO *applid* for DFHSTUP modules.

The code *aaa/bbbb* is a 3-digit hexadecimal MVS code (if applicable), followed by a 4-digit alphanumeric CICS code. The MVS code is a system completion code (for example, 0C1 or D37). If an MVS code is not applicable, this field is filled with three hyphens. The CICS code is an abend code or a number referring to a CICS

message (for example, AKEA is a CICS abend code; 1310 refers to message DFHTS1310).

System action: An exception entry is made in the trace table.

For modules DFHSTST and DFHSTTI, a dump is taken and the collection interval is set to 24 hours. Message DFHST0101 is also issued.

For module DFHSTDM, the action depends on the initialization error action value which is used by the domain (DM) manager. The usual action is to terminate CICS with a dump.

For module DFHSTUE, processing continues.

For modules DFHSTWR, DFHSTRD, and DFHSTU*x* (modules within DFHSTUP), the job step is terminated with a dump.

For ALL modules, a system dump is taken, unless you have specifically suppressed dumps in the dump table.

Message DFHME0116 should be produced containing the symptom string for this problem.

User response: If CICS is still running, it is necessary to decide whether to terminate CICS.

Look up the MVS code, if there is one, in the *OS/390 MVS System Codes* manual. Then look up the CICS alphanumeric code in this manual. This tells you, for example, whether the error was a program check, an abend, a runaway or a recovery percolation, and may give you some guidance concerning user response.

If module *modname* is not crucial to the running of your CICS system, you may decide to continue to run and bring CICS down at a convenient time to resolve the problem.

If you cannot run without the full use of module *modname*, you should bring CICS down in a controlled shutdown.

You need further assistance from IBM to resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHSTST, DFHSTDM, DFHSTTI, DFHSTUE, DFHSTUx (Modules within DFHSTUP), DFHSTWR, DFHSTRD

XMEOUT Parameters: *applid, aaa/bbbb, X'offset', modname*

Destination: Console

DFHST0002 *applid* **A severe error (code** *X'code'***) has occurred in module** *modname***.**

Explanation: An error has been detected in module *modname*. The code X'*code* is the exception trace point id which uniquely identifies what the error is and where the error was detected.

System action: An exception entry (code X'*code* in the message) is made in the trace table. A system dump is taken, unless you have specifically suppressed dumps in the dump table.

CICS will continue unless you have specified in the dump table that CICS should terminate. If appropriate, an error return code is sent to the caller of this domain. In this case, CICS could be terminated by the caller (for example, the domain manager, DFHDMDM). A message is issued to this effect.

Message DFHME0116 should be produced containing the symptom string for this problem.

User response: Inform the system programmer. This indicates a possible error in CICS code. The severity of its impact will depend on the importance of the function being executed at the time of the error.

For further information about CICS exception trace entries, refer to the *CICS Problem Determination Guide*.

CICS may not have been terminated. If the message occurs once and module *modname* is not crucial to the running of your CICS system, you may decide to continue to run and bring CICS down at a convenient time to resolve the problem.

If the message recurs or if you cannot run without the full use of module *modname*, you should bring CICS down in a controlled shutdown.

You need further assistance from IBM to resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHSTST, DFHSTDM, DFHSTTI, DFHSTUE

XMEOUT Parameters: *applid, X'code',modname*

Destination: Console

DFHST0003 *applid* **Insufficient storage to satisfy GETMAIN (code** *X'code'***) in module** *modname***.**

Explanation: A CICS GETMAIN was issued by module *modname*, but there was insufficient storage available to satisfy the request. The code X'*code* is the exception trace point id which uniquely identifies the place where the error was detected. This error has occurred above the 16MB line.

System action: An exception entry is made in the trace table (code X'*code* in the message). A system dump is taken, unless you have specifically suppressed dumps in the dump table.

CICS continues unless you have specified in the dump table that CICS should terminate.

If appropriate, an error return code is sent to the caller of this domain. In this case, CICS could be terminated by the caller (for example, the domain manager, DFHDMDM). A message is issued to this effect.

Message DFHME0116 should be produced containing

the symptom string for this problem.

User response: Inform the system programmer. If CICS has been terminated by another module, look out for the relevant termination messages (from, for example, the domain manager), and look up the user response suggested for these messages.

If CICS is still running, the problem may be a temporary one which will right itself if more storage becomes available. If you can manage without module *modname*, you may decide to continue and bring CICS down at a convenient time to resolve the problem. If the message recurs or if you cannot run without the full use of all CICS modules, you should bring CICS down in a controlled shutdown.

Try increasing the size limits of the DSAs or EDSAs. If CICS is not already terminated, you need to bring CICS down to do this. See the *CICS System Definition Guide* or the *CICS Performance Guide* for further information on CICS storage.

Module: DFHSTDM

XMEOUT Parameters: *applid, X'code',modname*

Destination: Console

DFHST0004 *applid* **A possible loop has been detected at offset** *X'offset'* **in module** *modname***.**

Explanation: A CICS function is taking more time to process than CICS expects. A possible loop has been detected in module *modname* at offset X'*offset*. This is the offset of the instruction which was executing at the time the error was detected.

Note that no *applid* is included for DFHSTUP modules.

System action: An exception entry is made in the trace table.

For modules DFHSTST and DFHSTTI, a system dump is taken and the collection interval is set to 24 hours. Message DFHST0101 will also be issued.

For module DFHSTDM, the action depends on the initialization error action value which is used by the domain (DM) manager. The usual action will be to terminate CICS with a dump.

For module DFHSTUE, processing continues.

For modules DFHSTWR, DFHSTRD, and DFHSTU*x* (modules within DFHSTUP), the job step is terminated with a dump.

For ALL modules, a system dump is taken, unless you have specifically suppressed dumps in the dump table.

Message DFHME0116 should be produced containing the symptom string for this problem.

User response: Notify the system programmer. If CICS has not been terminated, it is necessary to decide whether the problem is serious enough to bring CICS down.

Since some CICS functions can use a lot of CPU time, this message may have been caused by a long-running function. So there may not be an error here. Usually, CICS purges a CICS function which exceeds the runaway task time interval which you have specified in the SIT (this is the ICVR which is measured in milliseconds). This means that module *modname* is terminated and CICS continues.

But if you have declared ICVR=0 in the SIT and you consider that module *modname* has gone into a loop, you will have to terminate CICS in order to terminate the runaway function.

If CICS has terminated module *modname*, and you consider that it was not a runaway, you should increase the ICVR time interval in the SIT. You have to bring CICS down at a suitable time to do this permanently. But you can change the ICVR time interval temporarily online, using the CEMT transaction.

If raising the ICVR time does not solve the problem, you will need further assistance from IBM. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHSTST, DFHSTDM, DFHSTTI, DFHSTUE, DFHSTUx (Modules within DFHSTUP), DFHSTWR, DFHSTRD

XMEOUT Parameters: *applid, X'offset', modname*

Destination: Console

DFHST0005 *applid* **A hardware error has occurred (module** *modname***, code** *X'code'***). The Time-of-Day clock is invalid.**

Explanation: Execution of the STCK machine instruction resulted in a non-zero condition code.

System action: A system dump is taken and interval collections are cancelled. Message DFHST0102 is also issued.

Message DFHME0116 should be produced containing the symptom string for this problem.

User response: Notify the system programmer. This is in all probability a hardware error and you should in the first instance investigate the MVS Store Clock and find out whether it is working properly. If this is the cause, you should take the appropriate action to have it repaired or replaced.

In the unlikely event that this is not a hardware problem, you will need further assistance from IBM. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHSTST, DFHSTDM

XMEOUT Parameters: *applid, modname,X'code'*

Destination: Console

DFHST0101I *applid* **The Statistics Domain has set the collection interval to 24 hours.**

Explanation: A problem has been detected by, or has been passed back to, the statistics (ST) domain. As a result, the collection interval has been set to the maximum value. The end-of-day collection time is unchanged.

A message explaining the problem has already been issued by the module in error.

System action: Other processing continues.

User response: Refer to the associated message for guidance on resolving the original problem.

Use CEMT SET STATISTICS to reset the interval when the problem has been resolved.

Module: DFHSTST, DFHSTDM, DFHSTTI

XMEOUT Parameter: *applid*

Destination: Console

DFHST0102I *applid* **The Statistics Domain has cancelled interval collections.**

Explanation: A problem has been detected by, or has been passed back to, the statistics (ST) domain. A message explaining the problem may have already been issued by the module in error.

To reduce the occurrence of this problem, the interval collections have been cancelled. The end-of-day collection time is unchanged.

System action: Other processing continues.

User response: Refer to any associated message for guidance on resolving the original problem.

If no associated message has been issued, you will need further assistance from IBM. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHSTST, DFHSTDM, DFHSTTI

XMEOUT Parameter: *applid*

Destination: Console

DFHST0103 *applid* **An SMF error has occurred with return code** *X'rc'***.**

Explanation: SMF has returned to the statistics (ST) domain with an error return code X'*rc* from the SMFEWTM macro.

System action: Other CICS processing continues.

User response: Refer to the *z/OS MVS System Management Facilities (SMF)* manual for a detailed explanation of the meaning of the return code.

Module: DFHSTST

XMEOUT Parameters: *applid, X'rc'*

Destination: Console

DFHST0201S An attempt to open the statistics data set has failed.

Explanation: DFHSTUP has tried to open the unloaded SMF data set but has failed.

System action: A dump is taken and the job step is terminated.

User response: Ensure that the JCL for the job is correct. A sample set of JCL to execute the DFHSTUP utility is contained in the *CICS Operations and Utilities Guide*.

If incorrect JCL is not the cause of the problem, you will need further assistance from IBM. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHSTRD

Destination: SYSPRINT

DFHST0202S A read error on the statistics data set has occurred

Explanation: A read error was encountered on the unloaded SMF data set.

System action: A dump is taken and the job step is terminated.

User response: Inform the system programmer. First check that the JCL for the job is correct. A sample set of JCL to execute the DFHSTUP utility is contained in the *CICS Operations and Utilities Guide*. Resubmit the job.

Module: DFHSTRD

Destination: SYSPRINT

DFHST0203W The statistics data set is empty.

Explanation: An end-of-file condition was detected during the first attempt to read the unloaded SMF data set, or the unloaded SMF data set contained no CICS statistics from any CICS system.

System action: The job step is terminated.

User response: The most likely cause is an error in the JCL which unloads the SMF data set. First check that the JCL is correct. A sample set of JCL to unload the SMF data set is contained in the *CICS Operations and Utilities Guide*. Also check that you have unloaded the correct SMF data set. Resubmit the job.

Module: DFHSTIN

Destination: SYSPRINT

DFHST0204S Invalid record id encountered on the statistics data set.

Explanation: An invalid record identifier *recid* has been encountered in the unloaded SMF data set.

System action: A dump is taken and the job step is terminated.

User response: Check that the unloaded SMF data set contains statistics records. CICS statistics records are of SMF record type 110, sub-type 2. For further information, see the *CICS Data Areas*.

If the SMF data set does contain statistics records, the most likely cause of the problem is a corrupted SMF data set. Unload the SMF data set again and rerun the DFHSTUP utility. If the problem persists, you will need further assistance from IBM. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHSTU*x* (modules within DFHSTUP)

Destination: SYSPRINT

DFHST0206S An invalid parameter ( ) has been specified for the DFHSTUP utility.

Explanation: One or more of the parameters specified in the SYSIN data set were incorrect.

System action: The job step is terminated.

User response: Correct the erroneous parameter as identified in the message and resubmit the job.

Module: DFHSTUP1

Destination: SYSPRINT

DFHST0207W An incomplete data record has been encountered on the statistics data set.

Explanation: A record input from the unloaded SMF data set specifies that the data it contains is incomplete.

System action: Processing continues.

User response: For an incomplete data record to have been encountered, there must have been an error in the running of CICS. This should result in an exception trace and perhaps a dump being issued.

You need further assistance from IBM to resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHSTUx (modules within DFHSTUP)

Destination: SYSPRINT

DFHST0208S An attempt to open the SYSIN data set has failed.

Explanation: DFHSTUP has tried to open the SYSIN data set but has failed.

System action: A dump is taken and the job step is terminated.

User response: Ensure that the JCL for the job is correct. A sample set of JCL to execute the DFHSTUP utility is contained in the *CICS Operations and Utilities Guide*.

If incorrect JCL is not the cause of the problem, you will need further assistance from IBM. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHSTRD

Destination: SYSPRINT

DFHST0209S A read error on the SYSIN data set has occurred.

Explanation: A read error was encountered on the SYSIN data set.

System action: A dump is taken and the job step is terminated.

User response: Inform the system programmer.

To resolve the problem, collect the dumps and any relevant messages and determine why the read failed. Resubmit the job.

Module: DFHSTRD

Destination: SYSPRINT

DFHST0210I No statistics are available for applid *applid*.

Explanation: No statistics data records exist for applid *applid* in the unloaded SMF data set. This is because

- Applid *applid* is unknown, or
- You have unloaded the wrong SMF data set, or
- You have specified a COLLECTION TYPE= parameter for which applid *applid* has no statistics, or
- No CICS statistics records were written for applid *applid*.

System action: The job step continues.

User response: Check that you have specified the correct applid. If necessary, respecify the correct applid. Check that you have unloaded the correct SMF data set. If necessary, unload the correct SMF data set. If you have specified the correct applid and unloaded the correct SMF data set, then there are no statistics data records for applid *applid*.

Module: DFHSTUP1

Destination: SYSPRINT

DFHST0211S Processing terminated. Getmain failed with a short on storage condition.

Explanation: The DFHSTUP utility detected an error from a GETMAIN macro while obtaining working storage. This was because DFHSTUP had exhausted the available storage.

System action: A dump is taken and the job step terminates.

User response: Check that you have specified the correct REGION size on the EXEC JCL command used to execute the DFHSTUP utility. A sample set of JCL to execute the DFHSTUP utility is contained in the *CICS Operations and Utilities Guide*.

If you have specified the correct REGION size, you will need further assistance from IBM. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: All DFHSTUP modules

Destination: SYSPRINT

DFHST0212S Processing terminated. DFSORT message data set (DD=SYSOUT) is missing.

Explanation: The data set used by the DFSORT utility to output its messages is missing.

System action: A dump is taken and the job step is terminated.

User response: Check the JCL used to execute the DFHSTUP utility to ensure that the SYSOUT DD was correctly specified. A sample set of JCL to execute the DFHSTUP utility is contained in the *CICS Operations and Utilities Guide*.

If you have specified the correct SYSOUT DD statement, you will need further assistance from IBM. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHSTUP1

Destination: SYSPRINT

DFHST0213S Processing terminated. Error detected by DFSORT. Check DFSORT messages.

Explanation: An error was detected by the DFSORT utility and the DFHSTUP utility terminated.

System action: A dump is taken and the job step is terminated.

User response: The user must inspect the DFSORT message data set and search for messages indicating the reason for the failure of the DFSORT utility. A detailed explanation of the messages produced by DFSORT can be found in the *DFSORT Application Programming Guide* (SC33-4035).

After analyzing the DFSORT error message, take the appropriate corrective actions and resubmit the job.

Module: DFHSTUP1

Destination: SYSPRINT

DFHST0214S Processing terminated. Failure to obtain system time and date.

Explanation: The DFHSTUP utility was unable to obtain the system time and date from the CICS kernel.

System action: A dump is taken and the job step is terminated.

User response: You need further assistance from IBM to resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHSTUP1

Destination: SYSPRINT

DFHST0216W An incompatible statistics record version number , was detected by module .

Explanation: The statistics utility program has detected that a statistics record has a version number which is incompatible with the version number expected by the DFHSTUP utility.

System action: The statistics record containing the invalid version number is ignored. Statistics records immediately following which are of the same type and which also contain an invalid version number are also ignored. Processing continues.

User response: Obtain a dump of the SMF data set. You need further assistance from IBM to resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: All DFHSTUP modules.

Destination: SYSPRINT

DFHST0217S An attempt to open the DFHSTWRK data set has failed.

Explanation: The statistics utility program has detected an error while attempting to open the DFHSTWRK data set during non-summary statistics processing.

System action: The statistics utility program ends abnormally.

User response: Ensure that the DFHSTWRK data set has been specified on the job, and that the attributes of the data set are correct.

Module: DFHSTU17

Destination: SYSPRINT

DFHST0218S A write error has occurred on the DFHSTWRK data set.

Explanation: The statistics utility program has detected an error while attempting to write to the DFHSTWRK data set during non-summary statistics processing.

System action: The statistics utility program ends abnormally.

User response: Ensure that the DFHSTWRK data set has been specified on the job, that the attributes of the data set are correct, and that the data set is large enough.

Module: DFHSTU17

Destination: SYSPRINT

DFHST0219S A read error has occurred on the DFHSTWRK data set.

Explanation: The statistics utility program has detected an error while attempting to read from the DFHSTWRK data set during non-summary statistics processing.

System action: The statistics utility program ends abnormally.

User response: Check that the DFHSTWRK data set has been specified on the job, that the attributes of the data set are correct, and that the data set is large enough.

Module: DFHSTU17

Destination: SYSPRINT

DFHST0220S An attempt to open the DFHSTWRK data set has failed.

Explanation: The statistics utility program has detected an error while attempting to open the DFHSTWRK data set while processing summary statistics.

System action: The statistics utility program ends abnormally.

User response: Check that the DFHSTWRK data set has been specified on the job, and that the attributes of the data set are correct.

Module: DFHST17X

Destination: SYSPRINT

DFHST0221S A write error has occurred on the DFHSTWRK data set.

Explanation: The statistics utility program has detected an error while attempting to write to the DFHSTWRK data set during summary statistics processing.

System action: The statistics utility program ends abnormally.

User response: Check that the DFHSTWRK data set has been specified on the job, that the attributes of the data set are correct, and that the data set is large enough.

Module: DFHST17X

Destination: SYSPRINT

DFHST0222S A read error has occurred on the DFHSTWRK data set.

Explanation: The statistics utility program has detected an error while attempting to read from the DFHSTWRK data set during summary statistics processing.

System action: The statistics utility program ends abnormally.

User response: Check that the DFHSTWRK data set has been specified on the job, that the attributes of the data set are correct, and that the data set is large enough.

Module: DFHST17X

Destination: SYSPRINT

DFHST0223I There are no data table statistics to report.

Explanation: The file subsection of the DFHSTUP report entitled 'Data Table Requests Information' only contains formatted information if the data currently being processed contains statistics records for files accessed as data tables. This message is written to the DFHSTUP report, when the utility program detects that there are no data table statistics in this section of the statistics report.

System action: Processing continues normally.

User response: Take no action unless you expect data table statistics in the DFHSTUP report. In this case, ensure that the data tables feature is in use during the time period covered by the statistics being processed.

Module: DFHSTU17, DFHST17X

Destination: SYSPRINT

DFHST0224I There are no intrapartition queues to report.

Explanation: The transient data subsection of the DFHSTUP report entitled 'Transient Data - Intrapartition' contains no data.

System action: Processing continues normally.

User response: Take no action unless you expect TD intrapartition statistics in the DFHSTUP report.

Module: DFHSTUTQ, DFHSTTQX

Destination: SYSPRINT

DFHST0225I There are no extrapartition queues to report.

Explanation: The transient data subsection of the DFHSTUP report entitled 'Transient Data - Extrapartition' contains no data.

System action: Processing continues normally.

User response: Take no action unless you expect TD extrapartition statistics in the DFHSTUP report.

Module: DFHSTUTQ, DFHSTTQX

Destination: SYSPRINT

DFHST0226I There are no indirect queues to report.

Explanation: The transient data subsection of the DFHSTUP report entitled 'Transient Data - Indirect' contains no data.

System action: Processing continues normally.

User response: Take no action unless you expect TD indirect statistics in the DFHSTUP report.

Module: DFHSTUTQ, DFHSTTQX

Destination: SYSPRINT

DFHST0227I There are no remote queues to report.

Explanation: The transient data subsection of the DFHSTUP report entitled 'Transient Data - Remote' contains no data.

System action: Processing continues normally.

User response: Take no action unless you expect TD remote statistics in the DFHSTUP report.

Module: DFHSTUTQ, DFHSTTQX

Destination: SYSPRINT

DFHST0228S An invalid extract parameter ( ) has been specified for the DFHSTUP utility.

Explanation: One or more of the parameters on the extract command specified in the SYSIN data set were incorrect.

System action: The job step is terminated.

User response: Correct the erroneous parameter as identified in the message and resubmit the job.

Module: DFHSTUP1

Destination: SYSPRINT

DFHST0229W A duplicate extract command has been detected. Command ignored.

Explanation: A duplicate EXTRACT USERPROGRAM command has been detected.

System action: The duplicate command is ignored and the extract exit program specified on the first command is used. Processing continues.

User response: Remove the erroneous command.

Module: DFHSTUP1

Destination: SYSPRINT

DFHST0230E Unable to locate the extract library member *member***.**

Explanation: The member is not in the libraries named in the JCL.

System action: The utility terminates processing of the command that required access to library member *member*.

User response: Ensure that the member is correctly link-edited into the library and resubmit the job.

Module: DFHSTUP

Destination: SYSPRINT

DFHST0231E Unable to load the extract library member *member***.**

Explanation: DFHSTUP could not load the extract library member *member*.

System action: The utility terminates processing of the command that required access to the library member.

User response: Ensure that the member is correctly link-edited into the library and resubmit the job.

Module: DFHSTUP

Destination: SYSPRINT

DFHST0232S An abend (code *aaa/bbbb***) has occurred in extract exit program** *modname***. Extract exit processing has been terminated.**

Explanation: During processing of an EXTRACT command, a program check or abend *aaa/bbbb* has occurred in extract exit program *modname*.

The code *aaa/bbbb* is, if applicable, a 3-digit hexadecimal MVS system completion code *aaa* (for example, 0C1 or D37). If an MVS code is not applicable, this field is filled with three hyphens. The 4-digit code *bbbb*, which follows *aaa* is, if applicable, a user abend code produced by the extract exit program. If the user abend code is not applicable, this field is filled with four hyphens.

System action: The EXTRACT command is terminated.

User response: For a program check, refer to prior messages to resolve the error in the extract exit program. For a user abend code consult the relevant documentation of the user exit program to determine the error.

Module: DFHSTUP

Destination: SYSPRINT

DFHST0233I DFHSTUP report suppressed. Report options requested only an EXTRACT userprogram to be invoked.

Explanation: No report was produced by DFHSTUP due to the fact that an EXTRACT exit program was specified and no other report options. DFHSTUP invokes the exit program to process the statistics records and suppresses all its reporting

System action: EXTRACT processing continues.

User response: If a DFHSTUP report is required in addition to the report produced from the specified EXTRACT exit, specify the necessary DFHSTUP reporting options.

Module: DFHSTUP

Destination: SYSPRINT

DFHST0234S EXTRACT terminated at user's request RC=*retcode*.

Explanation: A batch job has issued a DFHSTUP utility EXTRACT command. The EXTRACT command has been terminated because of a non-zero value in register 15 on return from an extract user exit program.

System action: Execution of the utility EXTRACT command is terminated.

User response: Determine the cause of the error detected by the user exit program using the return code *retcode* provided and the relevant documentation of the user exit program.

Module: DFHSTUP

Destination: SYSPRINT

DFHST0235S An abend (code *aaa/bbbb*) has occurred in program *modname*.

Explanation: During processing of an DFHSTUP command, a program check or abend *aaa/bbbb* has occurred in module *modname*.

The code *aaa/bbbb* is, if applicable, a 3-digit hexadecimal MVS system completion code *aaa* (for example, 0C1 or D37). If an MVS code is not applicable, this field is filled with three hyphens. The 4-digit code *bbbb*, which follows *aaa* is, if applicable, a Language Environment abend code. If the abend code is not applicable, this field is filled with four hyphens.

System action: The DFHSTUP command is terminated.

User response: Look up the MVS code, if there is one, in the *z/OS MVS System Codes* manual. Look up the Language Environment abend code in the *z/OS Language Environment Debugging Guide and Run-Time Messages* manual.

You need further assistance from IBM to resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHSTUP

Destination: SYSPRINT

DFHST0236 I DFHSTUP has reached its reporting limit of 520 applids, subsequent applid reporting is now suppressed.

Explanation: DFHSTUP has reached its limit of 520 for the number of applids it can produce a report for. Reports for subsequent applids are suppressed.

System action: Processing continues.

User response: Consider reducing the number of applids in the statistics data.

Module: DFHSTOT

Destination: SYSPRINT

DFHSZnnnn messages

DFHSZ4001I *date time applid* FEPI initialization has started.

Explanation: The Front End Programming Interface (FEPI) is being initialized.

This means the CSZI transaction - FEPI - has started its processing. CSZI is started as part of CICS system initialization, if the system initialization parameter FEPI is set to YES.

If you specified FEPI=YES and this message does not appear during CICS initialization, CSZI failed to start; the most common reason for this is that group DFHFEPI is not included in the list specified by the GRPLIST system initialization parameter.

If message DFHSZ4001 is not followed by message DFHSZ4002, FEPI failed to start. In this case, a DFHSZnnnn message is issued to indicate the error.

System action: FEPI initialization proceeds.

User response: None.

Module: DFHSZRMP(DFHSZSIP)

XMEOUT Parameters: *date, time,applid*

Destination: Console and Transient Data Queue CSZL

DFHSZ4002I *date time applid* **FEPI initialization has ended.**

Explanation: The Front End Programming Interface (FEPI) has finished initialization.

System action: EXEC CICS FEPI commands are made available.

User response: None.

Module: DFHSZRMP(DFHSZSIP)

XMEOUT Parameters: *date, time,applid*

Destination: Console and Transient Data Queue CSZL

DFHSZ4003I *date time applid* **FEPI termination complete.**

Explanation: The Front End Programming Interface (FEPI) has ended.

A DFHSZnnnn message may precede message DFHSZ4003 to indicate what caused FEPI to terminate.

System action: EXEC CICS FEPI commands are made unavailable.

User response: Resolve the problem indicated by the messages, then restart CICS.

Module: DFHSZRMP(DFHSZSIP)

XMEOUT Parameters: *date, time,applid*

Destination: Console and Transient Data Queue CSZL

DFHSZ4004E *date time applid* **FEPI cannot be started: FEPI=YES not specified in the SIT.**

Explanation: The Front End Programming Interface (FEPI) cannot be started because the FEPI system initialization parameter was set to NO indicating that FEPI is not required.

This message usually means that you attempted to start the FEPI transaction (CSZI) manually, but did not set up the correct environment for it to run.

System action: The FEPI transaction is not run.

User response: If you require FEPI in the CICS system, restart CICS specifying the system initialization parameter FEPI=YES. You do not need to start the FEPI transaction manually.

Module: DFHSZRMP(DFHSZSIP)

XMEOUT Parameters: *date, time,applid*

Destination: Console and Transient Data Queue CSZL

DFHSZ4005E *date time applid* **FEPI cannot be started: FEPI is already active, in state** *X'ssssssss'*.

Explanation: The Front End Programming Interface (FEPI) cannot be started because FEPI is already active in the system.

This message usually means that you attempted to start a new instance of FEPI manually by running the FEPI transaction (CSZI), but the previous instance of FEPI failed in some way that caused an 'active' indication to be left in error.

The possible FEPI states (X'ssssssss') are:

State	Meaning
X'00000002'	FEPI is being initialized
X'00000003'	FEPI is active
X'00000004'	FEPI is terminating as CICS is undergoing a normal shutdown
X'00000005'	FEPI is terminating as CICS is undergoing an immediate shutdown
X'00000006'	FEPI is terminating as CICS is undergoing an abnormal shutdown

System action: The request to start a new instance of FEPI is rejected.

User response: If the state suggests that a previous instance of FEPI failed, you must restart CICS to resolve the problem. You do not need to start the FEPI transaction manually.

Module: DFHSZRMP(DFHSZSIP)

XMEOUT Parameters: *date, time, applid, X'ssssssss'*

Destination: Console and Transient Data Queue CSZL

DFHSZ4006E *date time applid* **FEPI initialization failed: enqueue failure, code** *X'rr'*.

Explanation: The Front End Programming Interface (FEPI) cannot be initialized because an attempt to enqueue on the FEPI enqueue name SZENQRMI failed, indicating that FEPI is already active in the system. FEPI initialization issues this enqueue to prevent a second instance of FEPI being present in the system.

This message usually means that you attempted to start the FEPI transaction (CSZI) manually, but there is a previous instance of CSZI still running.

The possible values of X'*rr*', the reason for failure, are:

Code	Meaning
X'31'	Duplicate enqueue on SZENQRMI attempted.

X'32' Failure during enqueue processing.

System action: The request to start a second instance of FEPI is rejected.

User response: None.

Module: DFHSZRMP(DFHSZSIP)

XMEOUT Parameters: *date, time, applid, X'rr'*

Destination: Console and Transient Data Queue CSZL

DFHSZ4007E *date time applid* **FEPI initialization failed: storage ADD_SUBPOOL failure for subpool** *pppppppp***, reason** *X'rr'* **response** *X'ee'***.**

Explanation: The Front End Programming Interface (FEPI) cannot be initialized because creating the named storage subpool for FEPI use failed.

The values of X'*rr*', the reason for failure, are:

Reason	Meaning
X'01'	Insufficient storage available for the subpool
X'03'	Subpool requested with an invalid fixed length
X'04'	Subpool requested with an invalid boundary alignment
X'05'	Subpool requested with an invalid initial number of elements
X'06'	Subpool requested with an invalid name
X'08'	Subpool requested already exists
X'11'	Access to the Storage Manager was denied

The values of X'*ee*', the response to the failed request, are:

Response	Meaning
X'01'	Request completed successfully
X'02'	Exception response generated
X'03'	Disaster response generated
X'04'	Invalid response generated
X'05'	A kernel error was detected
X'06'	The request was purged

System action: FEPI initialization ends, and EXEC CICS FEPI commands are unavailable. An exception trace entry is generated.

User response: The only action you can take is when there is insufficient storage, in which case you can increase the storage available to CICS on restart.

All other errors are system failures, and you should consult the system programmer. You need further assistance from IBM to resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHSZRMP(DFHSZSIP)

XMEOUT Parameters: *date, time, applid, pppppppp, X'rr', X'ee'*

Destination: Console and Transient Data Queue CSZL

DFHSZ4008E *date time applid* **FEPI initialization failed: Non-runaway task setting failure, reason** *X'rr'* **response** *X'ee'***.**

Explanation: The Front End Programming Interface (FEPI) cannot be initialized. Because FEPI is a long-running transaction (CSZI), it must not be subject to a runaway task time out. The request to prevent this failed.

The value of X'*rr*', the reason for failure, is always X'00'.

The values of X'*ee*', the response to the failed request, are:

Response	Meaning
X'01'	Request completed successfully
X'02'	Exception response generated
X'03'	Disaster response generated
X'04'	Invalid response generated

System action: FEPI initialization ends, and EXEC CICS FEPI commands are made unavailable. An exception trace entry is generated.

User response: You need further assistance from IBM to resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHSZRMP(DFHSZSIP)

XMEOUT Parameters: *date, time, applid, X'rr', X'ee'*

Destination: Console and Transient Data Queue CSZL

DFHSZ4009E *date time applid* **FEPI initialization failed change-priority failure, response** *X'ee'***.**

Explanation: The Front End Programming Interface (FEPI) cannot be initialized because changing the dispatching priority of the FEPI transaction (CSZI) failed.

Because FEPI runs as a transaction, a high priority is required. The request to set this dispatching priority failed.

The values of X'*ee*', the response to the failed request, are:

Response	Meaning
X'01'	Request completed successfully

X'03' Disaster response generated

X'04' Invalid response generated

X'05' A Kernel error was detected

System action: FEPI initialization ends, and EXEC CICS FEPI commands are made unavailable. An exception trace entry is generated.

User response: You need further assistance from IBM to resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHSZRMP(DFHSZSIP)

XMEOUT Parameters: *date, time, applid, X'ee'*

Destination: Console and Transient Data Queue CSZL

DFHSZ4010E *date time applid* **FEPI initialization failed: SZ TCB swap failure, response** *X'ee'*.

Explanation: The Front End Programming Interface (FEPI) usually runs under the CICS SZ TCB. Transferring the FEPI transaction (CSZI) from running under the QR TCB to the SZ TCB failed.

The values of X'*ee*', the response to the failed request, are:

Response
Meaning

X'01' Request completed successfully

X'02' Exception response generated

X'03' Disaster response generated

X'04' Invalid response generated

X'05' A kernel error was detected

System action: FEPI initialization ends, and EXEC CICS FEPI commands are made unavailable. An exception trace entry is generated.

User response: The SZ TCB is created as part of the early CICS initialization and you should examine the console log to see if any messages were generated indicating a TCB creation failure.

You need further assistance from IBM to resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHSZRMP(DFHSZSIP)

XMEOUT Parameters: *date, time, applid, X'ee'*

Destination: Console and Transient Data Queue CSZL

DFHSZ4011E *date time applid* **FEPI storage GETMAIN failed in subpool NB, reason** *X'rr'* **response** *X'ee'*.

Explanation: The Front End Programming Interface (FEPI) issued a GETMAIN storage request in the SZSPFCNB storage subpool for NIB usage which failed.

The values of X'*rr*', the reason for failure, are:

Reason **Meaning**

X'01' Insufficient storage for the request

X'02' Invalid subpool token given

X'04' Invalid length of element requested

X'05' Length of element not specified

X'08' Access was denied to the storage subpool

X'11' Invalid initial image supplied

X'12' An abnormal end occurred in the storage manager

X'13' A loop was detected in the storage manager

The values of X'*ee*', the response to the failed request, are:

Response
Meaning

X'01' Request completed successfully.

X'02' Exception response generated.

X'03' Disaster response generated.

X'04' Invalid response generated.

X'05' A Kernel error was detected.

X'06' The request was purged.

All these responses indicate that a system error has occurred.

System action: An exception trace entry is generated.

FEPI tries to recover from this error by retrying the request. However, no action is taken to prevent multiple occurrences.

User response: If this message occurs frequently, you should take a dump of the CICS system before restarting it. You need further assistance from IBM to resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHSZRMP(DFHSZZNG)

XMEOUT Parameters: *date, time, applid, X'rr', X'ee'*

Destination: Console and Transient Data Queue CSZL

DFHSZ4012E *date time applid* **FEPI storage GETMAIN failed in subpool DA, reason** *X'rr'* **response** *X'ee'*.

Explanation: The Front End Programming Interface (FEPI) issued a GETMAIN storage request in the SZSPVCDA storage subpool for general usage which failed.

The values of X'*rr*', the reason for failure, are:

Reason Meaning

X'01' Insufficient storage for the request.

X'02' Invalid subpool token given.

X'04' Invalid length of element requested.

X'05' Length of element not specified.

X'08' Access was denied to the storage subpool.

X'11' Invalid initial image supplied.

X'12' An abnormal end occurred in the storage manager.

X'13' A loop was detected in the storage manager.

The values of X'*ee*', the response to the failed request, are:

Response
Meaning

X'01' Request completed successfully.

X'02' Exception response generated.

X'03' Disaster response generated.

X'04' Invalid response generated.

X'05' A kernel error was detected.

X'06' The request was purged.

All of these responses indicate that a system error occurred.

System action: An exception trace entry is generated.

FEPI tries to recover from this error by retrying the request. However, no action is taken to prevent multiple occurrences.

User response: If this message occurs frequently, you should take a dump of the CICS system before restarting it.

You need further assistance from IBM to resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHSZRMP(DFHSZZAG)

XMEOUT Parameters: *date, time, applid, X'rr', X'ee'*

Destination: Console and Transient Data Queue CSZL

DFHSZ4013E *date time applid* **FEPI storage GETMAIN failed in subpool RP, reason** *X'rr'* **response** *X'ee'***.**

Explanation: The Front End Programming Interface (FEPI) issued a GETMAIN storage request in the SZSPPCRP storage subpool for RPL usage. The request failed.

The values of X'*rr*', the reason for failure, are:

Reason Meaning

X'01' Insufficient storage for the request.

X'02' Invalid subpool token given.

X'04' Invalid length of element requested.

X'05' Length of element not specified.

X'08' Access was denied to the storage subpool.

X'11' Invalid initial image supplied.

X'12' An abnormal end occurred in the storage manager.

X'13' A loop was detected in the storage manager.

The values of X'*ee*', the response to the failed request, are:

Response
Meaning

X'01' Request completed successfully.

X'02' Exception response generated.

X'03' Disaster response generated.

X'04' Invalid response generated.

X'05' A kernel error was detected.

X'06' The request was purged.

All of these responses indicate that a system error occurred.

System action: An exception trace entry is generated.

FEPI tries to recover from this error by retrying the request. However, no action is taken to prevent multiple occurrences.

User response: If this message occurs frequently, you should take a dump of the CICS system before restarting it.

You need further assistance from IBM to resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHSZRMP(DFHSZZRG)

XMEOUT Parameters: *date, time, applid, X'rr', X'ee'*

Destination: Console and Transient Data Queue CSZL

DFHSZ4014E *date time applid* **FEPI storage FREEMAIN failed in subpool DA|NB|RP, reason** *X'rr'* **response** *X'ee'***.**

Explanation: The Front End Programming Interface (FEPI) issued a FREEMAIN storage request in an SZSPxxxx storage subpool. The request failed.

The values of X'*rr*', the reason for failure, are:

Reason Meaning

X'02' Invalid subpool token given.

X'03' The address of the element to be freed is invalid.

X'06' Invalid length of element specified.

X'07' Length of element not specified.

X'08' Access was denied to the storage subpool.

X'10' The specified storage subpool was empty.

X'12' An abnormal end occurred in the storage manager.

X'13' A loop was detected in the storage manager.

The values of X'*ee*', the response to the failed request, are:

Response
Meaning

X'01' Request completed successfully.

X'02' Exception response generated.

X'03' Disaster response generated.

X'04' Invalid response generated.

X'05' A kernel error was detected.

X'06' The request was purged.

All of these responses indicate that a system error occurred.

System action: The request is rejected, and a retry is not attempted (perhaps leaving storage that is never subsequently accessible). An exception trace entry is generated.

User response: You need further assistance from IBM to resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHSZRMP(DFHSZZFR)

XMEOUT Parameters: *date, time, applid, X'rr', X'ee'*

Destination: Console and Transient Data Queue CSZL

DFHSZ4015I *date time applid* **FEPI** *{normal | immediate | forced}* **termination has started.**

Explanation: The Front End Programming Interface (FEPI) has acknowledged a shutdown request and is starting to terminate.

Message DFHSZ4003 is issued when FEPI completes termination.

FEPI terminates only in response to a CICS shutdown request (such as CEMT PERFORM SHUTDOWN). Some types of CICS shutdown can result in more than one DFHSZ4015 message being issued.

System action: Certain EXEC CICS FEPI commands are made unavailable during FEPI termination.

Normal termination allows all transactions using FEPI resources to end before FEPI itself ends. However, no new usage of FEPI resources is permitted.

Immediate termination stops usage of FEPI facilities immediately but does a controlled shutdown of communication functions.

Forced termination stops usage of FEPI facilities immediately, and does the quickest possible shutdown of communication functions (which may lead to many z/OS Communications Server messages being issued).

User response: None.

Module: DFHSZRMP(DFHSZRDP)

XMEOUT Parameters: *date, time,applid, {1=normal, 2=immediate, 3=forced}*

Destination: Console and Transient Data Queue CSZL

DFHSZ4099E *date time applid* **FEPI ended abnormally.**

Explanation: The Front End Programming Interface (FEPI) has ended abnormally.

System action: A system dump is taken. All EXEC CICS FEPI commands are made unavailable.

User response: You need further assistance from IBM to resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHSZRMP(DFHSZSIP)

XMEOUT Parameters: *date, time,applid*

Destination: Console and Transient Data Queue CSZL

DFHSZ4101I *date time applid* **FEPI node** *nnnnnnnn* **installed, for transaction** *xxxx***.**

Explanation: The Front End Programming Interface (FEPI) has successfully installed the named node.

System action: Processing continues.

User response: None.

Module: DFHSZRMP(DFHSZRII)

XMEOUT Parameters: *date, time,applid, nnnnnnnn, xxxx*

Destination: CSZL

DFHSZ4102W *date time applid* **FEPI node** *nnnnnnnn* **installation failed, code** *rrr***, for transaction** *xxxx***.**

Explanation: The Front End Programming Interface (FEPI) cannot install the named node. The code indicates the reason, and is the RESP2 value returned by the EXEC CICS FEPI INSTALL NODE command.

System action: Processing continues.

User response: Investigate the failure, and correct it.

Module: DFHSZRMP(DFHSZRII)

XMEOUT Parameters: *date, time,applid, nnnnnnnn, rrr, xxxx*

Destination: CSZL

DFHSZ4103I *date time applid* **FEPI node** *nnnnnnnn* **discarded, for transaction** *xxxx***.**

Explanation: The Front End Programming Interface (FEPI) has successfully discarded the named node.

System action: Processing continues.

User response: None.

Module: DFHSZRMP(DFHSZRDN)

XMEOUT Parameters: *date, time,applid, nnnnnnnn, xxxx*

Destination: CSZL

DFHSZ4104I *date time applid* **FEPI node** *nnnnnnnn* **discard scheduled, for transaction** *xxxx***.**

Explanation: The Front End Programming Interface (FEPI) has scheduled the discard operation for the named node.

System action: Processing continues. The node is discarded when it becomes inactive.

User response: None.

Module: DFHSZRMP(DFHSZRID)

XMEOUT Parameters: *date, time,applid, nnnnnnnn, xxxx*

Destination: CSZL

DFHSZ4105W *date time applid* **FEPI node** *nnnnnnnn* **discard failed, code** *rrr***, for transaction** *xxxx***.**

Explanation: The Front End Programming Interface (FEPI) cannot discard the named node. The code indicates the reason, and is the RESP2 value returned by the EXEC CICS FEPI DISCARD NODE command.

System action: Processing continues.

User response: Investigate the failure, and correct it.

Module: DFHSZRMP(DFHSZRID)

XMEOUT Parameters: *date, time,applid, nnnnnnnn, rrr, xxxx*

Destination: CSZL

DFHSZ4106I *date time applid* **FEPI pool** *pppppppp* **(with property set** *yyyyyyyy***) installed, for transaction** *xxxx***.**

Explanation: The Front End Programming Interface (FEPI) has successfully installed the named pool which has the characteristics of the named property set.

System action: Processing continues.

User response: None.

Module: DFHSZRMP(DFHSZRII)

XMEOUT Parameters: *date, time,applid, pppppppp, yyyyyyyy, xxxx*

Destination: CSZL

DFHSZ4107W *date time applid* **FEPI pool** *pppppppp* **(with property set** *yyyyyyyy***) installation failed, code** *rrr***, for transaction** *xxxx***.**

Explanation: The Front End Programming Interface (FEPI) cannot install the named pool, which has the characteristics of the named property set. The code indicates the reason, and is the RESP2 value returned by the EXEC CICS FEPI INSTALL POOL command.

System action: Processing continues.

User response: Investigate the failure, and correct it.

Module: DFHSZRMP(DFHSZRII)

XMEOUT Parameters: *date, time,applid, pppppppp, yyyyyyyy, rrr, xxxx*

Destination: CSZL

DFHSZ4108I *date time applid* **FEPI pool** *pppppppp* **discarded, for transaction** *xxxx***.**

Explanation: The Front End Programming Interface (FEPI) has successfully discarded the named pool.

System action: Processing continues.

User response: None.

Module: DFHSZRMP(DFHSZRDG)

XMEOUT Parameters: *date, time,applid, pppppppp, xxxx*

Destination: CSZL

DFHSZ4109I *date time applid* **FEPI pool** *pppppppp* **discard scheduled, for transaction** *xxxx***.**

Explanation: The Front End Programming Interface (FEPI) has scheduled the discard operation for the named pool.

System action: Processing continues. The pool is discarded when it becomes inactive.

User response: None.

Module: DFHSZRMP(DFHSZRID)

XMEOUT Parameters: *date, time,applid, pppppppp, xxxx*

Destination: CSZL

DFHSZ4110W *date time applid* **FEPI pool** *ppppppp* **discard failed, code** *rrr***, for transaction** *xxxx***.**

Explanation: The Front End Programming Interface (FEPI) cannot discard the named pool. The code indicates the reason, and is the RESP2 value returned by the EXEC CICS FEPI DISCARD POOL command.

System action: Processing continues.

User response: Investigate the failure, and correct it.

Module: DFHSZRMP(DFHSZRID)

XMEOUT Parameters: *date, time,applid, ppppppp, rrr, xxxx*

Destination: CSZL

DFHSZ4111I *date time applid* **FEPI target** *ttttttt* **installed, for transaction** *xxxx***.**

Explanation: The Front End Programming Interface (FEPI) has successfully installed the named target.

System action: Processing continues.

User response: None.

Module: DFHSZRMP(DFHSZRII)

XMEOUT Parameters: *date, time,applid, ttttttt, xxxx*

Destination: CSZL

DFHSZ4112W *date time applid* **FEPI target** *ttttttt* **installation failed, code** *rrr***, for transaction** *xxxx***.**

Explanation: The Front End Programming Interface (FEPI) cannot install the named target. The code indicates the reason, and is the RESP2 value returned by the EXEC CICS FEPI INSTALL TARGET command.

System action: Processing continues.

User response: Investigate the failure, and correct it.

Module: DFHSZRMP(DFHSZRII)

XMEOUT Parameters: *date, time,applid, ttttttt, rrr, xxxx*

Destination: CSZL

DFHSZ4113I *date time applid* **FEPI target** *ttttttt* **discarded, for transaction** *xxxx***.**

Explanation: The Front End Programming Interface (FEPI) has successfully discarded the named target.

System action: Processing continues.

User response: None.

Module: DFHSZRMP(DFHSZRDT)

XMEOUT Parameters: *date, time,applid, ttttttt, xxxx*

Destination: CSZL

DFHSZ4114I *date time applid* **FEPI target** *ttttttt* **discard scheduled, for transaction** *xxxx***.**

Explanation: The Front End Programming Interface (FEPI) has scheduled the discard operation for the named target.

System action: Processing continues. The target is discarded when it becomes inactive.

User response: None.

Module: DFHSZRMP(DFHSZRID)

XMEOUT Parameters: *date, time,applid, ttttttt, xxxx*

Destination: CSZL

DFHSZ4115W *date time applid* **FEPI target** *ttttttt* **discard failed, code** *rrr***, for transaction** *xxxx***.**

Explanation: The Front End Programming Interface (FEPI) cannot discard the named target. The code indicates the reason, and is the RESP2 value returned by the EXEC CICS FEPI DISCARD TARGET command.

System action: Processing continues.

User response: Investigate the failure, and correct it.

Module: DFHSZRMP(DFHSZRID)

XMEOUT Parameters: *date, time,applid, ttttttt, rrr, xxxx*

Destination: CSZL

DFHSZ4116I *date time applid* **FEPI property set** *yyyyyyyy* **installed, for transaction** *xxxx***.**

Explanation: The Front End Programming Interface (FEPI) has successfully installed the named property set.

System action: Processing continues.

User response: None.

Module: DFHSZRMP(DFHSZRII)

XMEOUT Parameters: *date, time,applid, yyyyyyyy, xxxx*

Destination: CSZL

DFHSZ4117W *date time applid* **FEPI property set** *yyyyyyyy* **installation failed, code** *rrr***, for transaction** *xxxx***.**

Explanation: The Front End Programming Interface (FEPI) cannot install the named property set. The code indicates the reason, and is the RESP2 value returned by the EXEC CICS FEPI INSTALL PROPERTYSET command.

System action: Processing continues.

User response: Investigate the failure, and correct it.

Module: DFHSZRMP(DFHSZRII)

XMEOUT Parameters: *date, time,applid, yyyyyyyy, rrr, xxxx*

Destination: CSZL

DFHSZ4118I *date time applid* **FEPI property set** *yyyyyyyy* **discarded, for transaction** *xxxx***.**

Explanation: The Front End Programming Interface (FEPI) has successfully discarded the named property set.

System action: Processing continues.

User response: None.

Module: DFHSZRMP(DFHSZRID)

XMEOUT Parameters: *date, time,applid, yyyyyyyy, xxxx*

Destination: CSZL

DFHSZ4119W *date time applid* **FEPI property set** *yyyyyyyy* **discard failed, code** *rrr***, for transaction** *xxxx***.**

Explanation: The Front End Programming Interface (FEPI) cannot discard the named property set. The code indicates the reason, and is the RESP2 value returned by the EXEC CICS FEPI DISCARD PROPERTYSET command.

System action: Processing continues.

User response: Investigate the failure, and correct it.

Module: DFHSZRMP(DFHSZRID)

XMEOUT Parameters: *date, time,applid, yyyyyyyy, rrr, xxxx*

Destination: CSZL

DFHSZ4120I *date time applid* **FEPI node** *nnnnnnnn* **added to pool** *pppppppp***, for transaction** *xxxx***.**

Explanation: The Front End Programming Interface (FEPI) has successfully added the named node to the named pool.

System action: Processing continues.

User response: None.

Module: DFHSZRMP(DFHSZRII)

XMEOUT Parameters: *date, time,applid, nnnnnnnn, pppppppp, xxxx*

Destination: CSZL

DFHSZ4121W *date time applid* **FEPI node** *nnnnnnnn* **not added to pool** *pppppppp***, code** *rrr***, for transaction** *xxxx***.**

Explanation: The Front End Programming Interface (FEPI) cannot add the named node to the named pool. The code indicates the reason, and is the RESP2 value returned by the EXEC CICS FEPI ADD POOL command.

System action: Processing continues.

User response: Investigate the failure, and correct it.

Module: DFHSZRMP(DFHSZRII)

XMEOUT Parameters: *date, time,applid, nnnnnnnn, pppppppp, rrr, xxxx*

Destination: CSZL

DFHSZ4122I *date time applid* **FEPI node** *nnnnnnnn* **deleted from pool** *pppppppp***, for transaction** *xxxx***.**

Explanation: The Front End Programming Interface (FEPI) has successfully deleted the named node from the named pool.

System action: Processing continues.

User response: None.

Module: DFHSZRMP(DFHSZRID)

XMEOUT Parameters: *date, time,applid, nnnnnnnn, pppppppp, xxxx*

Destination: CSZL

DFHSZ4123W *date time applid* **FEPI node** *nnnnnnnn* **not deleted from pool** *pppppppp***, code** *rrr***, for transaction** *xxxx***.**

Explanation: The Front End Programming Interface (FEPI) cannot delete the named node from the named pool. The code indicates the reason, and is the RESP2 value returned by the EXEC CICS FEPI DELETE POOL command.

System action: Processing continues.

User response: Investigate the failure, and correct it.

Module: DFHSZRMP(DFHSZRID)

XMEOUT Parameters: *date, time,applid, nnnnnnnn, pppppppp, rrr, xxxx*

Destination: CSZL

DFHSZ4124I *date time applid* **FEPI target** *ttttttt* **added to pool** *pppppppp***, for transaction** *xxxx***.**

Explanation: The Front End Programming Interface (FEPI) has successfully added the named target to the named pool.

System action: Processing continues.

User response: None.

Module: DFHSZRMP(DFHSZRII)

XMEOUT Parameters: *date, time,applid, ttttttt, pppppppp, xxxx*

Destination: CSZL

DFHSZ4125W *date time applid* **FEPI target** *ttttttt* **not added to pool** *pppppppp***, code** *rrr***, for transaction** *xxxx***.**

Explanation: The Front End Programming Interface (FEPI) cannot add the named target to the named pool. The code indicates the reason, and is the RESP2 value returned by the EXEC CICS FEPI ADD POOL command.

System action: Processing continues.

User response: Investigate the failure, and correct it.

Module: DFHSZRMP(DFHSZRII)

XMEOUT Parameters: *date, time,applid, ttttttt, pppppppp, rrr, xxxx*

Destination: CSZL

DFHSZ4126I *date time applid* **FEPI target** *ttttttt* **deleted from pool** *pppppppp***, for transaction** *xxxx***.**

Explanation: The Front End Programming Interface (FEPI) has successfully deleted the named target from the named pool.

System action: Processing continues.

User response: None.

Module: DFHSZRMP(DFHSZRID)

XMEOUT Parameters: *date, time,applid, ttttttt, pppppppp, xxxx*

Destination: CSZL

DFHSZ4127W *date time applid* **FEPI target** *ttttttt* **not deleted from pool** *pppppppp***, code** *rrr***, for transaction** *xxxx***.**

Explanation: The Front End Programming Interface (FEPI) cannot delete the named target from the named pool. The code indicates the reason, and is the RESP2 value returned by the EXEC CICS FEPI DELETE POOL command.

System action: Processing continues.

User response: Investigate the failure, and correct it.

Module: DFHSZRMP(DFHSZRID)

XMEOUT Parameters: *date, time,applid, ttttttt, pppppppp, rrr, xxxx*

Destination: CSZL

DFHSZ4128W *date time applid* **FEPI delete from pool** *pppppppp* **failed, code** *rrr***, for transaction** *xxxx***.**

Explanation: The Front End Programming Interface (FEPI) cannot do a delete operation on the named pool. The code indicates the reason, and is the RESP2 value returned by the EXEC CICS FEPI DELETE POOL command.

System action: Processing continues.

User response: Investigate the failure, and correct it.

Module: DFHSZRMP(DFHSZRID)

XMEOUT Parameters: *date, time,applid, pppppppp, rrr, xxxx*

Destination: CSZL

DFHSZ4151I *date time applid* **Unsolicited data received for FEPI pool** *pppppppp* **target** *ttttttt* **node** *nnnnnnnn***. Transaction** *xxxx* **started.**

Explanation: The Front End Programming Interface (FEPI) received some unsolicited data for the named pool-target-node connection, and started the named transaction to process this data.

System action: Processing continues.

User response: None.

Module: DFHSZRMP(DFHSZBUN)

XMEOUT Parameters: *date, time,applid, pppppppp, ttttttt, nnnnnnnn, xxxx*

Destination: CSZL

DFHSZ4152I *date time applid* **Begin-session processing required for FEPI pool** *pppppppp* **target** *ttttttt* **node** *nnnnnnnn***. Transaction** *xxxx* **started.**

Explanation: The Front End Programming Interface (FEPI) invoked begin-session processing for the named pool-target-node connection, by starting the named transaction.

System action: Processing continues.

User response: None.

Module: DFHSZRMP(DFHSZBSI)

XMEOUT Parameters: *date, time,applid, pppppppp, ttttttt, nnnnnnnn, xxxx*

Destination: CSZL

DFHSZ4153I *date time applid* **STSN processing required for FEPI pool** *pppppppp* **target** *ttttttt* **node** *nnnnnnnn***. Transaction** *xxxx* **started.**

Explanation: The Front End Programming Interface

(FEPI) invoked STSN processing for the named pool-target-node connection, by starting the named transaction.

System action: Processing continues.

User response: None.

Module: DFHSZRMP(DFHSZBST)

XMEOUT Parameters: *date, time,applid, ppppppppp, ttttttt, nnnnnnnn, xxxx*

Destination: CSZL

DFHSZ4154 W *date time applid* **FEPI session setup in pool** *ppppppppp* **to target** *ttttttt* **and node** *nnnnnnnn* **failed with a reason code of** *X'rrrrrrrr'***. Setup will be retried later.**

Explanation: The Front End Programming Interface (FEPI) has detected an error during session setup for the named pool-target-node connection. Refer to *z/OS Communications Server Messages and Codes* or to *SNA Formats* for a description of the reason code (error code or sense code) that describes this error.

System action: Processing continues; the session setup is tried again after a short interval, using a different node if one is available. If the error occurs for a request session, FEPI retries the request in 60 seconds.

User response: None.

Module: DFHSZRMP(DFHSZBLO)

XMEOUT Parameters: *date, time,applid, ppppppppp, ttttttt, nnnnnnnn, X'rrrrrrrr'*

Destination: CSZL

DFHSZ4155W *date time applid* **FEPI session in pool** *ppppppppp* **to target** *ttttttt* **and node** *nnnnnnnn* **ended with a reason code of** *X'rrrrrrrr'***.**

Explanation: The Front End Programming Interface (FEPI) has detected this z/OS Communications Server event for the named pool-target-node connection. Refer to *z/OS Communications Server Messages and Codes* or to *SNA Formats* for a description of the reason code (error code or sense code) that describes this event.

System action: Processing continues.

User response: None. This message can have a reason code of zero. If a message with a reason code of zero is not wanted, we recommend the use of the XMEOUT global user exit to suppress it.

Module: DFHSZRMP(DFHSZBLO)

XMEOUT Parameters: *date, time,applid, ppppppppp, ttttttt, nnnnnnnn, X'rrrrrrrr'*

Destination: CSZL

DFHSZ4156I *date time applid* **End-session processing required for FEPI pool** *ppppppppp* **target** *ttttttt* **node** *nnnnnnnn***. Transaction** *xxxx* **started.**

Explanation: The Front End Programming Interface (FEPI) invoked end-session processing for the named pool-target-node connection, by starting the named transaction.

System action: Processing continues.

User response: None.

Module: DFHSZRMP(DFHSZBFT)

XMEOUT Parameters: *date, time,applid, ppppppppp, ttttttt, nnnnnnnn, xxxx*

Destination: CSZL

DFHSZ4157W *date time applid* **FEPI session setup in pool** *ppppppppp* **to target** *ttttttt* **and node** *nnnnnnnn* **failed with a reason code of** *X'rrrrrrrr'***. Setup will not be retried.**

Explanation: The Front End Programming Interface (FEPI) has detected an error during session setup for the named pool-target-node connection. Refer to *z/OS Communications Server Messages and Codes* or to *SNA Formats* for a description of the reason code (error code or sense code) that describes this error. Setting up a session for this connection has failed several times.

System action: Processing continues; the session setup for this connection is not tried again.

User response: None; operator intervention may be needed to make the connection available.

Module: DFHSZRMP(DFHSZBLO)

XMEOUT Parameters: *date, time,applid, ppppppppp, ttttttt, nnnnnnnn, X'rrrrrrrr'*

Destination: CSZL

DFHSZ4158W *date time applid* **The VTAM OPEN request for FEPI node** *nnnnnnnn* **failed with a reason code of** *X'rrrrrrrr'***. This operation will be retried.**

Explanation: The Front End Programming Interface (FEPI) has detected an error during z/OS Communications Server OPEN processing for the named node.

The possible values of X'*rrrrrrrr*', the reason for failure, are:

Code Meaning

X'00000000'
z/OS Communications Server TPEND occurred with error code 0.

X'00000004'
z/OS Communications Server TPEND occurred with error code 4.

X'00000008'
z/OS Communications Server TPEND occurred with error code 8.

X'0000000C'
z/OS Communications Server SETLOGON failed.

other values
z/OS Communications Server OPEN failed with error code given.

Refer to *VTAM Programming* for a description of these error codes.

System action: Processing continues; the z/OS Communications Server OPEN for the node is repeated after a short interval.

User response: None.

Module: DFHSZRMP(DFHSZRIO)

XMEOUT Parameters: *date, time, applid, nnnnnnnn, X'rrrrrrrr'*

Destination: CSZL

DFHSZ4159W *date time applid* **The VTAM OPEN request for FEPI node** *nnnnnnnn* **failed with a reason code of** *X'rrrrrrrr'***. This operation will not be retried.**

Explanation: The Front End Programming Interface (FEPI) has detected an error during z/OS Communications Server OPEN processing for the named node. The reason code is the error code returned by the z/OS Communications Server OPEN operation. Refer to *VTAM Programming* for a description of these error codes.

System action: Processing continues; the z/OS Communications Server OPEN for the node is not repeated.

User response: None; operator intervention may be needed to make the node available.

Module: DFHSZRMP(DFHSZRIO)

XMEOUT Parameters: *date, time,applid, nnnnnnnn, X'rrrrrrrr'*

Destination: CSZL

DFHSZ4201I *date time applid* **FEPI node** *nnnnnnnn* **now has status** *{INSERVICE | OUTSERVICE | GOINGOUT}***,** *{ACQUIRED | RELEASED |ACQUIRING | RELEASING}***.**

Explanation: The status of a Front End Programming Interface (FEPI) node has been changed by an EXEC CICS FEPI SET NODE or a CEMT SET FENODE command, and is now as described.

System action: Processing continues.

User response: None

Module: DFHSZRMP(DFHSZRIW)

XMEOUT Parameters: *date, time,applid, nnnnnnnn, {1=INSERVICE, 2=OUTSERVICE, 3=GOINGOUT}, {4=ACQUIRED, 5=RELEASED, 6=ACQUIRING, 7=RELEASING}*

Destination: CSZL

DFHSZ4202I *date time applid* **FEPI pool** *pppppppp* **now has status** *{INSERVICE | OUTSERVICE | GOINGOUT}***.**

Explanation: The status of a Front End Programming Interface (FEPI) pool has been changed by an EXEC CICS FEPI SET POOL or a CEMT SET FEPOOL command, and is now as described.

System action: Processing continues.

User response: None

Module: DFHSZRMP(DFHSZRIW)

XMEOUT Parameters: *date, time,applid, pppppppp, {1=INSERVICE, 2=OUTSERVICE, 3=GOINGOUT}*

Destination: CSZL

DFHSZ4203I *date time applid* **FEPI target** *ttttttt* **now has status** *{INSERVICE | OUTSERVICE | GOINGOUT}***.**

Explanation: The status of a Front End Programming Interface (FEPI) target has been changed by an EXEC CICS FEPI SET TARGET or a CEMT SET FETARGET command, and is now as described.

System action: Processing continues.

User response: None

Module: DFHSZRMP(DFHSZRIW)

XMEOUT Parameters: *date, time,applid, ttttttt, {1=INSERVICE, 2=OUTSERVICE, 3=GOINGOUT}*

Destination: CSZL

DFHTCnnnn messages

DFHTC1001 *applid* **Terminal control initialization failed (***modname***).**

Explanation: The CICS terminal control restart task could not complete because a necessary step failed. The task has done some essential recovery operations and has abnormally terminated itself with code ATC1.

System action: CICS writes a transaction dump for the terminal control restart task. CICS sends two messages to the console, one to identify the error detected by the terminal control restart task, and one, DFHTC1001, to say that the task has failed. A third message follows, either to say that CICS has terminated abnormally with a dump or to ask you to reply GO or CANCEL. Depending on the nature of the original error, you may see messages from some other system component (for example, an access method).

Message DFHME0116 should be produced containing the symptom string for this problem.

User response: First, if CICS has requested a response, you must reply. If you reply 'GO', CICS continues processing, but without terminal control. If you reply 'CANCEL', CICS terminates abnormally with a dump. Use the messages and dumps to find out the cause of the failure. You need further assistance from IBM to resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHSII1, DFHTCRP

XMEOUT Parameters: *applid, modname*

Destination: Console

DFHTC1002 *applid* **Unable to link to program DFHTCRP.**

Explanation: The CICS terminal control recovery program, DFHTCRP, is unavailable. CICS cannot find DFHTCRP in any data set concatenated in the DFHRPL DD statement in the CICS startup job stream.

System action: CICS terminates abnormally with a dump.

User response: To correct this error, place DFHTCRP in a partitioned data set in the DFHRPL DD statement.

Module: DFHSII1

XMEOUT Parameter: *applid*

Destination: Console

DFHTC1004 *applid* **Program DFHTORP cannot be found. Typeterms cannot be initialized**

Explanation: The CICS terminal object resolution program, DFHTORP, is not available. CICS cannot find DFHTORP in any data set concatenated in the DFHRPL DD statement in the CICS startup job stream.

System action: CICS terminates abnormally with a dump.

User response: To correct this error, place DFHTORP in a partitioned data set in the DFHRPL DD statement.

Module: DFHTCRP

XMEOUT Parameter: *applid*

Destination: Console

DFHTC1011 *applid* **Unable to load** *xxxxxx* **During a CICS cold or initial start, CICS could not PC LOAD the CICS module, DFH***xxxxxx***, probably because it is missing from the library.**

System action: CICS initialization continues, but, even if it completes, z/OS Communications Server resource initialization will be incorrect in some respect, depending on the function of module DFH*xxxxxx*.

User response: If CICS completes initialization, processing of z/OS Communications Server resources will be invalid. You should cancel CICS, make module DFH*xxxxxx* available and then restart CICS.

Module: DFHTCRP

XMEOUT Parameters: *applid, xxxxxx*

Destination: Console

DFHTC1012 *applid* **Failure in installing VTAM resources**

Explanation: During a cold or initial start, CICS could not install all the z/OS Communications Server resources defined to CICS. CICS has issued other message(s) identifying which resources could not be installed.

System action: CICS initialization continues.

User response: If any of the uninstalled resources is essential, use RDO to make it available, or cancel CICS. The most likely reasons for this message are

- A previous CICS message such as DFHTC1011, **or**
- CICS code contains a logic error.

If you suspect an error in CICS, you will need further assistance from IBM. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHTCRP

XMEOUT Parameter: *applid*

Destination: Console

DFHTC1013 *applid* **Restore failed for** *xxxxxx*

Explanation: During a warm or emergency restart,

CICS could not restore the resource *xxxxxx*.

System action: CICS continues initialization.

User response: If resource *xxxxxx* is essential to your system, cancel CICS. This problem is probably caused by a CICS logic error. You need further assistance from IBM to resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHTCRP

XMEOUT Parameters: *applid, xxxxxx*

Destination: Console

DFHTC1014 *date time applid* **Communication resource definition for (***resname***) was not restored from the catalog because the resource definition for (***highname***) was not installed.**

Explanation: During an emergency restart, CICS could not restore the resource *resname* from the catalog, because the definition for another resource *highname* that it depends on is not present. Usually *resname* is a session or modegroup and *highname* is a connection.

System action: CICS continues restart, and deletes this resource from the CICS catalog. If the definition referred to was being installed when the previous CICS failed, both definitions are restored from the system log later in the restart.

User response: If resource *resname* is essential to your system and is not restored later in initialization you can reinstall the resource having first installed the resource that it depends on. This message can be caused by

- An install which was not complete when CICS failed, in which case it is forward recovered from the system log later, and no action is needed.
- A failure during warm shutdown in the previous run. In this case messages are produced for connections that were autoinstalled and were not uncataloged by the warm shutdown. In this case some auto-installed connections which would have been removed from the catalog if the warm shutdown had completed are recovered, but those which cause these messages are not.
- A corrupted CICS catalog. If large numbers of unrelated resources are missing, and the preceding CICS run was not warm keypointing at the time of failure, the catalog may have been corrupted. CICS continues, but you may want to initial start in order to get your definitions to a known state.
- A CICS logic error. In this case you need assistance from IBM. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHTCRP

XMEOUT Parameters: *date, time,applid, resname, highname*

Destination: CSMT

DFHTC1015 *applid* **TCT load module contains obsolete entries**

Explanation: During CICS initialization, the TCT load module DFHTCT*xx* (*xx* being the suffix) was found to contain entries not generated by the assembly macros for this release of CICS. This table cannot be used.

System action: The bring-up is abandoned.

User response: Either the incorrect TCT suffix was specified or implied, or the TCT has been assembled against the wrong level of CICS macros. Retry the bring-up, specifying a different suffix, or using a TCT assembled against the correct macros, as appropriate.

Module: DFHAPSIP

XMEOUT Parameter: *applid*

Destination: Console

DFHTC1022 *applid* **Error for XRF tracking record - Type:** *type* **- Key:** *key*

Explanation: An error during XRF tracking prevented a change to a resource from being tracked. The resource is of type *type* and is associated with key *key*.

type is the tracking record type. This is one of the following

TCT CONTENTS

ZCP SESSIONS

key is the location of an object in the TCTTE hierarchy.

System action: The associated resource is in an incorrect state, missing, or not deleted at the end of takeover.

User response: Decide whether the named resource is critical and see if you can resolve the problem.

Module: DFHTCRP

XMEOUT Parameters: *applid, type,key*

Destination: Console

DFHTC1023 *applid* **Logic error in tracking** *condition*

Explanation: During XRF tracking, a condition was detected which is not possible within the intended design. The insert indicates which of the checked conditions has been detected

1. No broadcast message accepted outside tracking. The GETMSG routine in DFHTCRP should only accept broadcast messages and those whose id matches that in field GETMSPEC. This field should only be set during tracking.
2. Broadcast message with null key. A null-key record indicates that the catch-up stream that it arrives in

is complete. This can only happen to the broadcast tracking stream if the active has just done a normal (warm) shut-down.

System action: The message in question is ignored

User response: You need further assistance from IBM to resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHTCRP

XMEOUT Parameters: *applid, condition*

Destination: Console

DFHTC1024I *applid* **XRF takeover while catching up.**

Explanation: The alternate CICS that issued this message has only just started. Apparently the active CICS failed before the alternate could obtain all the information about TCT resources in the active. Please refer to messages DFHTC1034-DFHTC1036 for details of the types of information which may be missing or may be incomplete.

System action: Takeover continues.

User response: Watch for further messages.

Module: DFHTCRP

XMEOUT Parameter: *applid*

Destination: Console

DFHTC1034I *applid* **TCT contents incomplete. Will read catalog.**

Explanation: DFHTC1024 provides background information for this message. Apparently, the active CICS failed before the alternate CICS could obtain the definitions for all the trackable resources in the active's TCT. Definitions may be missing at this point. However, the CICS catalog in the active may contain a more complete set of definitions in the restart data set. These will now be read as for a warm or emergency restart.

System action: Takeover continues.

User response: Look out for any errors while reading the CICS catalog.

Module: DFHTCRP

XMEOUT Parameter: *applid*

Destination: Console

DFHTC1035E *applid* **Session states may be incorrect**

Explanation: DFHTC1024 provides background information for this message. Apparently, the active CICS failed before the alternate CICS could obtain the session-state for all the trackable resources in the active's TCT. States may be incorrect at this point.

System action: Takeover continues.

User response: Be prepared for some logical units (LUs) that were ACQUIRED in the old active not to be after the takeover.

Module: DFHTCRP

XMEOUT Parameter: *applid*

Destination: Console

DFHTC1036I *applid* **Unimplemented tracking-type incomplete:** *xxxx*

Explanation: DFHTC1024 provides background information for this message. Apparently, the active CICS failed before the alternate CICS had been sent all the information regarding a type of resource which has not been implemented. This does not have any serious consequences as the information would have been thrown away. However, it does indicate a level of incompatibility between the old active system and this system.

System action: Takeover continues.

User response: Decide whether the implied level incompatibility exists and is expected. DFHTCRP

XMEOUT Parameters: *applid, xxxx*

DFHTC1040I *applid nnnn* **Terminal control tracking records received.**

Explanation: An alternate is standing by and has received *nnnn* terminal control tracking messages from the active.

System action: Tracking continues.

User response: None.

Module: DFHTCRP

XMEOUT Parameters: *applid, nnnn*

Destination: Console

DFHTC1041I *applid* **Terminal control tracking started.**

Explanation: An alternate is initializing, and is now about to start accepting messages from the active. Message DFHTC1044 should appear shortly.

System action: Initialization continues.

User response: None.

Module: DFHTCRP

XMEOUT Parameter: *applid*

Destination: Console

DFHTC1042I *applid* **Waiting for terminal control tracking to drain.**

Explanation: An alternate is taking over and is processing the remaining few tracking records from the active. This message is issued every 15 seconds while the takeover is held up for processing to complete. This is potentially an error, especially if it is repeated an unusual number of times. The likely causes include a delay in STANDBY BIND or UNBIND processing in z/OS Communications Server, or a CICS logic error. The system issues this message twice and then flushes the outstanding tracking activity as described in message DFHTC1046.

User response: Look for message DFHTC1046.

Module: DFHZXQO

XMEOUT Parameter: *applid*

Destination: Console

DFHTC1043I *applid* **Terminal control tracking ended - *nnn* records received.**

Explanation: An XRF alternate system is taking over. The last of the terminal control tracking records from the failing active system has been received and is being processed.

System action: Takeover continues.

User response: None.

Module: DFHTCRP

XMEOUT Parameters: *applid, nnn*

Destination: Console

DFHTC1044I *applid* **Terminal control catch-up started.**

Explanation: An XRF alternate system is preparing to standby and has received the first message from the active containing information about terminal control resources installed and/or bound before this alternate was started.

System action: Initialization continues.

User response: None.

Module: DFHTCRP

XMEOUT Parameter: *applid*

Destination: Console

DFHTC1045I *applid* **Terminal control catch-up complete.**

Explanation: An XRF alternate system is standing by, and has now received all the terminal control information it needs about terminal control resources installed and/or bound in the active before this alternate was started.

System action: Normal tracking continues.

User response: None.

Module: DFHTCRP

XMEOUT Parameter: *applid*

Destination: Console

DFHTC1046I *applid* **Flushing terminal control tracking.**

Explanation: An alternate is taking over and is processing the remaining few tracking records from the active. Message DFHTC1042 has been issued twice. DFHZXQO is now doing a controlled flush of the outstanding activity.

System action: CICS posts one outstanding action every 2 seconds in an attempt to free the hold-up. A system dump is taken for the first action only.

User response: This processing only occurs when an error or unforeseen circumstance arises. If the problem can be reproduced, you will need further assistance from IBM. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHZXQO

XMEOUT Parameter: *applid*

Destination: Console

DFHTC1047I *applid* **Higher node missing. Record dropped for** *key*

Explanation: An XRF alternate has received a tracking message from the active CICS, but either the associated system entry for this terminal is not present, or the ordering of terminal catalog records on the restart data set is incorrect (in that the terminal in error comes before the associated system entry).

key is the location of an object in the TCTTE hierarchy. This situation occurs if the active CICS was unable to send all of its tracking messages. This sometimes results in the system entry not being sent.

System action: The tracking message is discarded and so the associated action (an INSTALL or LOGON) is not performed.

User response: Ensure the CAVM message data set is large enough and restart the alternate. Check that the active CICS job is referring to the correct restart data set.

Module: DFHTCRP

XMEOUT Parameters: *applid, key*

Destination: Console

DFHTC1060 *applid* **Insufficient storage - code(***X'code'***) in module DFHTCRP.**

Explanation: A request for storage could not be satisfied in module DFHTCRP. The specific error is identified by the X'*code*' in the message. This implies that the dynamic storage area (DSA) size is too small. The X'*code*' identifies an exception trace record.

System action: Terminal control initialization is terminated with a system dump and message DFHTC1001 is issued.

User response: Since sufficient storage should be obtainable from within the minimum size DSA, this may imply a logic error within CICS. Try to increase the CDSASZE parameter in the system initialization table (SIT). You need further assistance from IBM to resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHTCRP

XMEOUT Parameters: *applid, X'code'*

Destination: Console

DFHTC1575 *applid* **No TCT entry for** *termid*

Explanation: This message is issued when system initialization reads a warm start record for which there is no matching terminal control table (TCT) entry. *termid* is the the name of the terminal that is missing.

System action: The record is ignored.

User response: If terminal *termid* is required, system initialization should be canceled.

Module: DFHTCRP

XMEOUT Parameters: *applid, termid*

Destination: Console

DFHTC1600 *applid* **The value for SYSIDNT,** *sysid1***, does not match the one specified in the last cold or initial start,** *sysid2***. CICS normal operation may be affected.**

Explanation: SYSIDNT has been specified in the SIT or as a system initialization parameter override on a warm or emergency start of CICS. The value of SYSIDNT does not match that specified on the last cold or initial start. SYSIDNT should be updated only on a cold or initial start.

System action: System initialization continues.

User response: For an emergency or warm start of CICS, ensure that SYSIDNT has the same value as in the last cold or initial start. It is recommended that CICS is re-initialized with the appropriate value specified for the SYSIDNT parameter for correct operation of CICS.

Module: DFHTCRP

XMEOUT Parameters: *applid, sysid1,sysid2*

Destination: Console

DFHTC2500 *date time applid {Line | CU | Terminal }***out of service** *{Term |W/Term }termid*

Explanation: This message indicates the OUT-OF-SERVICE conditions on completion of error processing in DFHTACP. It is possible that some of these conditions were true before the error was detected.

System action: Other processing continues.

User response: None.

Module: DFHTACP

XMEOUT Parameters: *date, time,applid, {1=Line , 2=CU ,3=Terminal }, {1=Term , 2=W/Term }, termid*

Destination: CSMT

DFHTC2501 Msg too long, please resubmit

Explanation: The terminal operator has keyed in more data than was expected for this READ.

System action: The transaction in progress is terminated.

User response: Reset the terminal and restart the transaction after the message TRANSACTION HAS BEEN ABENDED has been received.

Module: DFHTACP

Destination: Terminal End User

DFHTC2502 *date time applid* **TCT search error** *{on line w/term | at term }termid{, trans | , dest }tranid|destid{, rel line=}rr***,***time*

Explanation: An invalid terminal address was received on the line identified by terminal *termid*. This error can normally occur only on control unit devices such as a 2980 or a 3270. This is because CICS uses general polling and not all terminals on the control unit may be defined to CICS. All other conditions are undefined. The optional part of the message "**dest***destid*" applies only to TCAM. The destination *destid* is given when it does not match any of the network names (netnames) specified on the TCTTE generation.

System action: The control unit is placed out of service or, if it is not a general polled device, the line is placed out of service.

User response: Ensure that all terminals on the failing control unit are defined to CICS.

Where applicable, ensure that the TCAM MCP terminal generation names match the CICS DFHTCT TYPE=TERMINAL NETNAME parameter.

Module: DFHTACP

XMEOUT Parameters: *date, time,applid, {1=on line w/term , 2=at term }, termid, {1=, trans ,2=, dest }, tranid|destid, {1=, rel line=}, rr, time*

Destination: CSMT

DFHTC2506 *date time applid* **Output event rejected return code** *zz {on line w/term | at term }termid{, trans }tranid{, rel line=}rrtime*

Explanation: An output operation was attempted but was halted by the I/O routines and resulted in the SAM return code *zz*. If an abnormal condition is detected after a READ or WRITE macro, the operation is not started, and control is returned to the user program at the instruction following the READ or WRITE macro.

System action: The line is placed out of service.

User response: Ensure that the system is dumped at shutdown time in order to document the failure. For an explanation of the SAM return codes, *zz*, refer to the *OS/VS SAM* manual, (GC27-6980).

Module: DFHTACP

XMEOUT Parameters: *date, time,applid, zz, {1=on line w/term , 2=at term }, termid, {1=, trans },tranid, {1=, rel line=}, rr, time*

Destination: CSMT

DFHTC2507 *date time applid* **Input event rejected return code** *zz {on line w/term | at term }termid{, trans }tranid{, rel line=}rr,time*

Explanation: An input operation was attempted but was halted by the I/O routines, and resulted in the SAM return code *zz*. If an abnormal condition is detected after a READ or WRITE macro instruction, the operation is not started, and control is returned to your program at the instruction following the READ or WRITE macro instruction.

System action: The line is placed out of service.

User response: Ensure the system is dumped at shutdown time in order to document the failure.

Module: DFHTACP

XMEOUT Parameters: *date, time,applid, zz, {1=on line w/term , 2=at term }, termid, {1=, trans },tranid, {1=, rel line=}, rr, time*

Destination: CSMT

DFHTC2511 *date time applid* **Invalid write request** *{on line w/term | at term }termid{, trans }tranid{, rel line=}rr,time*

Explanation: This message is issued when one of the following has occurred.

1. A transaction has issued a write to its terminal facility that currently has a terminal status of input.
2. A transaction has issued a write to a 3735 during batch transmission prior to receipt of the end-of-file (EOF) condition.

System action: The write request is not executed, and the transaction terminates abnormally. CICS processing continues.

User response: The user response depends on the condition that has occurred. For condition

1. ensure that transactions do not issue write requests to terminals in input status.
2. ensure that the 3735 batch transaction does not issue its first write request before it has received the EOF condition.

Module: DFHTACP

XMEOUT Parameters: *date, time,applid, {1=on line w/term , 2=at term }, termid, {1=, trans }, tranid, {1=, rel line=}, rr,time*

Destination: CSTL

DFHTC2513 *date time applid* **Output length zero** *{on line w/term | at term }termid{, trans }tranid{, rel line=}rr,time*

Explanation: The data length in TIOATDL was not positive for a write operation.

System action: The transaction is abnormally terminated.

User response: Correct the zero or negative data length specification in the application program.

Module: DFHTACP

XMEOUT Parameters: *date, time,applid, {1=on line w/term , 2=at term }, termid, {1=, trans }, tranid, {1=, rel line=}, rr,time*

Destination: CSMT

DFHTC2514 *date time applid* **No output area provided** *{on line w/term | at term }termid{, trans }tranid{, rel line=}rr,time*

Explanation: A write was requested on terminal *termid* by transaction *tranid*. However, the TCTTEDA field was not initialized.

System action: The write request is not executed, and the transaction terminates abnormally. CICS processing continues.

User response: Ensure that transaction *tranid* obtains the required storage and initializes the TCTTEDA field.

Module: DFHTACP

XMEOUT Parameters: *date, time,applid, {1=on line w/term , 2=at term }, termid, {1=, trans }, tranid, {1=, rel line=}, rr,time*

Destination: CSTL

DFHTC2515 *date time applid* **Output area exceeded** *{on line w/term | at term }termid{, trans }tranid{, rel line=}rr,time*

Explanation: One of the following has occurred

- The terminal I/O area (TIOA) is not large enough to contain both the data and carrier control characters.
- The TIOA data length is greater than the TCAM block size specified in the DFHTCT TYPE=SDSCI macro.
- The application requires a TIOA larger than 32767 bytes.

System action: The write request is not executed, the terminal write storage is freed (if possible), and the transaction terminates abnormally. CICS processing continues.

User response: Ensure that application programs do not set the value of TIOATDL greater than the TIOA GETMAIN size, and that the TIOA data length is not greater than the TCAM blocksize. Also ensure that the application program does not require a TIOA larger than 32767 bytes.

Module: DFHTACP

XMEOUT Parameters: *date, time,applid, {1=on line w/term , 2=at term }, termid, {1=, trans }, tranid, {1=, rel line=}, rr,time*

Destination: CSTL

DFHTC2516 *date time applid* **Unit check SNS=***ss {on line w/term | at term }termid{, trans }tranid{, rel line=}rr,time*

Explanation: A unit check error has occurred on the line defined by terminal *termid*. The sense (SNS=*ss*) is provided. D/T 3275 dialed gives an automatic two-minute time out if there is no activity on the line.

System action: The line is placed out of service on SAM lines.

Intervention on a switched line causes the task to be abnormally terminated and the line to be logically disconnected. Intervention on a non-switched line with a dummy (unidentified) terminal causes the line to be placed out of service. With a real terminal, intervention causes the terminal to be placed out of service and the transaction to be abnormally terminated.

A data check with a dummy terminal causes the line to be placed out of service. With a real terminal, it causes the terminal to be placed out of service and the transaction to be abnormally terminated.

Lost data on a READ,TEXT command causes a MESSAGE TOO LONG response to be sent to the terminal. The transaction is abnormally terminated.

Time-out on a READ,TEXT command causes a MESSAGE TOO LONG response to be sent to the terminal. Time-out with a dummy terminal causes the line to be placed out of service. With a real terminal, it causes the terminal to be placed out of service and the transaction to be abnormally terminated.

User response: Examine the system console log message generated by SAM for this error and have the unit error corrected.

Module: DFHTACP

XMEOUT Parameters: *date, time,applid, ss, {1=on line w/term , 2=at term }, termid, {1=, trans },tranid, {1=, rel line=}, rr, time*

Destination: CSMT

DFHTC2517 *date time applid* **Unit check SNS=***ss*, **S.N.O.** *{on line w/term | at term }termid{, trans }tranid{, rel line=}rr,time*

Explanation: A unit check error has occurred on the line defined by terminal *termid*. SAM indicates this error as undefined - S.N.O (should not occur). The sense (SNS=*ss*) is provided.

System action: The line is placed out of service on SAM lines.

Intervention on a switched line causes the task to be abnormally terminated and the line to be logically disconnected. Intervention on a nonswitched line with a dummy (unidentified) terminal causes the terminal to be placed out of service and the transaction (task) to be abnormally terminated. With a real terminal, intervention causes the terminal to be placed out of service and the transaction to be abnormally terminated.

A data check with a dummy terminal causes the line to be placed out of service. With a real terminal, it causes the terminal to be placed out of service and the transaction to be abnormally terminated.

A time-out on a READ,TEXT command causes a MESSAGE TOO LONG response to be sent to the terminal. Time-out with a dummy terminal causes the line to be placed out of service. With a real terminal, it causes the terminal to be placed out of service and the transaction to be abnormally terminated.

User response: Examine the system console log message generated by SAM for this error and have the unit error corrected.

Module: DFHTACP

XMEOUT Parameters: *date, time,applid, ss, {1=on line w/term , 2=at term }, termid, {1=, trans },tranid, {1=, rel line=}, rr, time*

Destination: CSMT

DFHTC2518 *date time applid* **Unit exception on** *{on line w/term | at term }termid{, trans }tranid{, rel line=}rr,time*

Explanation: A unit exception error occurred on the line defined by terminal *termid*.

System action: With a
- Switched line, the transaction is abnormally terminated and the line is logically disconnected.
- Dummy terminal, the line is placed out of service.
- Real terminal, the terminal is placed out of service and the transaction is abnormally terminated.

User response: Examine the system console log message generated by SAM for this error and have the unit error corrected.

Module: DFHTACP

XMEOUT Parameters: *date, time,applid, {1=on line w/term , 2=at term }, termid, {1=, trans }, tranid, {1=, rel line=}, rr,time*

Destination: CSMT

DFHTC2519 *date time applid* **Unit exception S.N.O.** *{on line w/term | at term }termid{, trans }tranid{, rel line=}rr,time*

Explanation: A unit exception error has occurred on the line defined by terminal *termid*. SAM indicates this error as undefined - S.N.O (should not occur).

System action: With a
- Switched line, the transaction is abnormally terminated and the line is logically disconnected.
- Dummy terminal, the line is placed out of service.
- Real terminal, the terminal is placed out of service and the transaction is abnormally terminated.

User response: Examine the system console log message generated by SAM for this error. Have the unit error corrected.

Module: DFHTACP

XMEOUT Parameters: *date, time,applid, {1=on line w/term , 2=at term }, termid, {1=, trans }, tranid, {1=, rel line=}, rr,time*

Destination: CSMT

DFHTC2521 *date time applid* **Undetermined unit error** *{on line w/term | at term }termid{, trans }tranid{, rel line=}rr,time*

Explanation: An I/O error (that was *not* a unit check, a unit exception, or a negative response) occurred on the line defined by terminal *termid*.

System action: The line associated with terminal *termid* is placed out of service.

User response: Examine the system console log message generated by SAM for this error. Have the unit error corrected.

Module: DFHTACP

XMEOUT Parameters: *date, time,applid, {1=on line w/term , 2=at term }, termid, {1=, trans }, tranid, {1=, rel line=}, rr,time*

Destination: CSMT

DFHTC2522 *date time applid* **Intercept Required for terminal** *termid{ transaction }tranid,time*

Explanation: The task associated with terminal *termid* and transaction *tranid* was to have been abnormally terminated, but TPURGE(NO) was specified in the CSD definition for this task.

System action: The terminal is placed out of service.

User response: Use the master terminal facility to intercept or terminate the task.

Module: DFHTACP

XMEOUT Parameters: *date, time,applid, termid, {1= transaction },tranid, time*

Destination: CSMT

DFHTC2529 *date time applid* **Unsolicited input** *{on line w/term | at term }termid{, trans }tranid{, rel line=}rr,time*

Explanation: Input has occurred on a control unit (general poll) for which terminal *termid* is out of service or has a task that has not issued a DFHTC TYPE=READ macro.

System action: No action is performed by CICS. Control is given to a user-written terminal error program, DFHTEP.

User response: Code DFHTEP as dictated by environmental needs.

Module: DFHTACP

XMEOUT Parameters: *date, time,applid, {1=on line w/term , 2=at term }, termid, {1=, trans }, tranid, {1=, rel line=}, rr,time*

Destination: CSMT

DFHTC2534 *date time applid* **Invalid destination at term** *termid{, trans }tranid,time*

Explanation: An invalid destination was passed to TCAM from terminal *termid*.

System action: The write is halted and the task is abnormally terminated with a dump.

User response: Ensure that the destination is defined in the TCAM message control program (MCP).

Module: DFHTACP

XMEOUT Parameters: *date, time,applid, termid, {1=, trans }, tranid, time*

Destination: CSMT

DFHTC2536 *date time applid* **Link to DFHTEP from DFHTACP failed because** *{module DFHTEP is not AMODE 31 | module DFHTEP could not be loaded | there is no resource definition for program DFHTEP}***.**

Explanation: While processing an error for a non-z/OS Communications Server terminal, CICS attempted to link to user replaceable module DFHTEP. The link failed. One or more of the default actions described in message DFHTC2538 have been taken.

System action: The default action(s) set by DFHTACP are taken.

User response: Refer to message DFHTC2538 for an explanation of the default action(s) that have been taken.

Possible solutions are
- Ensure that DFHTEP is linked with AMODE 31.
- Ensure that DFHTEP is contained in one of the data sets concatenated in the DFHRPL DD statement and has the correct name.
- Ensure that the PROGRAM resource definition for module DFHTEP is installed.

Module: DFHTACP

XMEOUT Parameters: *date, time,applid, {1=module DFHTEP is not AMODE 31, 2=module DFHTEP could not be loaded, 3=there is no resource definition for program DFHTEP}*

Destination: CSMT

DFHTC2537 *date time applid* **Abend** *abcode* **has occurred in module DFHTEP.**

Explanation: While processing an error for a non-z/OS Communications Server terminal, user replaceable module DFHTEP was linked to and the program has abended with abend code *abcode*. One or more of the default actions described in message DFHTC2538 have been taken.

System action: Control is passed back to the calling module DFHTACP. DFHTACP reinstates the default action(s) set before DFHTEP was called. The action(s) are then taken.

User response: Refer to message DFHTC2538 for an explanation of the default action(s) that have been taken. Refer to abend code *abcode* for details of the original error. Follow the user response given in abend code *abcode* to solve the problem.

Module: DFHTACP

XMEOUT Parameters: *date, time,applid, abcode*

Destination: CSMT

DFHTC2538 *date time applid* **Default actions** *actions***have been taken for message number** *relatedmessage***.**

Explanation: A problem has arisen during the processing of an error for a non-z/OS Communications Server terminal and message *msgno* has been issued. The explanations for all possible default actions are as follows

Action Meaning

LINEOS
Place line out of service

NONPRGT
Non purgeable task

TERMOS
Place terminal out of service

ABENDT
Abend task on terminal

ABORTWR
Abort write and free terminal storage

RELTIOA
Release TCAM incoming message

SIGNOFF
Call the signoff program for terminal in error

System action: The system action is stated in message *related message*.

User response: Follow the guidance given in the user response section of message *related message*.

Module: DFHTACP

XMEOUT Parameters: *date, time,applid, actions, relatedmessage*

Destination: CSMT

DFHTC8510 *date time applid* **SNA protocol violation detected in query response at termid** *termid*

Explanation: CICS has detected a violation of SNA protocols in a query response from device *termid*.

System action: DFHQRY runs without effect.

User response: Find out why an invalid query response is being sent to CICS.

Module: DFHQRY

XMEOUT Parameters: *date, time,applid, termid*

Destination: CSMT

DFHTDnnnn messages

DFHTD0001 *applid* **An abend (code** *aaa/bbbb***) has occurred at offset** *X'offset'* **in module** *modname***.**

Explanation: An abnormal end (abend) or program check has occurred in module *modname*. This implies that there may be an error in CICS code. Alternatively, unexpected data has been input, or storage has been overwritten.

The code *aaa/bbbb* is a three 3-digit hexadecimal MVS code (if applicable), followed by a 4-digit alphanumeric CICS code. The MVS code is a system completion code (for example, 0C1 or D37). If an MVS code is not applicable, this field is filled with three hyphens. The CICS code is an abend code or a number referring to a CICS message (for example, AKEA is a CICS abend code; TS1310 refers to message DFHTS1310).

System action: An exception entry is made in the trace table. A system dump is taken, unless you have specifically suppressed dumps in the dump table.

CICS continues unless you have specified in the dump table that CICS should terminate.

Message DFHME0116 should be produced containing the symptom string for this problem.

User response: If CICS is still running, it is necessary to decide whether to terminate CICS.

Look up the MVS code, if there is one, in the *z/OS MVS System Codes* manual. Then look up the CICS alphanumeric code. This tells you, for example, whether the error is a program check, an abend, or a runaway, and may give you some guidance concerning user response.

If module *modname* is not crucial to the running of your CICS system, you may decide to continue to run and bring CICS down at a convenient time to resolve the problem.

If you cannot run without the full use of module *modname*, you should bring CICS down in a controlled shutdown.

You need further assistance from IBM to resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHTDA, DFHTDB, DFHTDRM, DFHTDOC

XMEOUT Parameters: *applid, aaa/bbbb, X'offset', modname*

Destination: Console

DFHTD0002 *applid* **A severe error (code** *X'code'***) has occurred in module** *modname***.**

Explanation: An error has been detected in module *modname*. The code X'*code* is the exception trace point id which uniquely identifies what the error is and where the error was detected. For further information about CICS exception trace entries, refer to the *CICS Problem Determination Guide*.

System action: An exception entry (code X'*code* in the message) is made in the trace table. A system dump is taken, unless you have specifically suppressed dumps in the dump table.

CICS continues unless you have specified in the dump table that CICS should terminate. If appropriate, an error return code is sent to the caller of this domain. In this case, CICS could be terminated by the caller (for example, the domain manager, DFHDMDM). A message is issued to this effect.

Message DFHME0116 should be produced containing the symptom string for this problem.

User response: The severity of this error depends on the importance of the function being executed at the time of the error.

CICS may not have been terminated.

If the message occurs once and module *modname* is not crucial to the running of your CICS system, you may decide to continue to run and bring CICS down at a convenient time to resolve the problem.

If the message recurs or if you cannot run without the full use of module *modname*, you should bring CICS down in a controlled shutdown.

You need further assistance from IBM to resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHTDA, DFHTDB, DFHTDRM, DFHTDOC

XMEOUT Parameters: *applid, X'code',modname*

Destination: Console

DFHTD0100I *applid* **Transient Data initialization has started.**

Explanation: This is an informational message indicating that transient data initialization has started.

System action: System initialization continues.

User response: None. The message can be suppressed with the system initialization parameter MSGLVL=0.

Module: DFHTDRP

XMEOUT Parameter: *applid*

Destination: Console

DFHTD0101I *applid* **Transient Data initialization has ended.**

Explanation: This is an informational message

indicating that transient data initialization has completed successfully.

System action: System initialization continues.

User response: None. The message can be suppressed with the system initialization parameter MSGLVL=0.

Module: DFHTDRP, DFHTDRM

XMEOUT Parameter: *applid*

Destination: Console

DFHTD0102 *applid* **Transient Data initialization has failed.**

Explanation: Transient data initialization has failed.

The SETXIT routine in DFHTDRP has been entered following abnormal termination of the transient data initialization task.

Alternatively an attempt to open the intrapartition data set failed.

System action: Provided there are no subsequent serious errors which prevent further initialization of CICS, CICS issues one of two messages depending on what other errors, if any, have occurred during initialization.

If DFHSI1521 is issued, CICS initialization is terminated. If DFHSI1522 is issued, decide if CICS initialization is to be continued in degraded mode or to be terminated.

If, as part of a restart of CICS rather than during an initial start or a cold start, the intrapartition data set fails to open successfully when it was successfully opened on the previous CICS run, message DFHSI1521 is issued and CICS is terminated.

User response: Check previous console messages, one of which should explain why transient data initialization has failed.

Module: DFHTDRP

XMEOUT Parameter: *applid*

Destination: Console

DFHTD0103I *applid* **Transient Data initialization has been suspended pending takeover.**

Explanation: This is an informational message indicating that transient data initialization has been suspended pending takeover. Some transient data initialization can be performed while CICS is operating in standby mode. However the remaining initialization can not be performed until takeover is complete because transient data sets, with the exception of the DFHCXRF data set, are assumed to be passively shared.

System action: System initialization continues.

User response: None. The message can be suppressed with the SIT parameter MSGLVL=0.

Module: DFHTDRP

XMEOUT Parameter: *applid*

Destination: Console

DFHTD0104I *applid* **Transient Data initialization has been resumed following takeover.**

Explanation: This is an informational message indicating that transient data initialization has been resumed following takeover.

System action: System initialization continues.

User response: None. This message can be suppressed with the system initialization parameter MSGLVL=0.

Module: DFHTDRP

XMEOUT Parameter: *applid*

Destination: Console

DFHTD0105I *applid* **Transient Data intrapartition queues will be initialized empty as EMPTY was specified on the TDINTRA SIT parameter.**

Explanation: This is an informational message indicating that transient data is being initialized with TDINTRA=EMPTY specified on the SIT. This has the effect of initializing all intrapartition TD queues in an empty state. The TDINTRA SIT parameter is ignored during a cold or initial start.

System action: System initialization continues.

User response: None. The message can be suppressed with the system initialization parameter MSGLVL=0.

Module: DFHTDRP

XMEOUT Parameter: *applid*

Destination: Console

DFHTD0170 *applid* **The intrapartition data set has been corrupted.**

Explanation: During a warm or emergency restart, CICS has found that the contents of the intrapartition data set are not consistent with that recorded by CICS. The intrapartition data set could have been corrupted.

System action: CICS terminates after producing a dump and writing an exception trace.

A system dump with dumpcode TD0170 is taken unless you have specifically suppressed dumps in the dump table.

User response: Reinitialize the intrapartition data set.

Perform a cold start or an initial start of CICS.

Module: DFHTDRM

XMEOUT Parameter: *applid*

Destination: Console

DFHTD0180 *applid* **Unexpected response (code** *X'response'***) and reason (code** *X'reason'***) from a** *dfhxxyym* **call.**

Explanation: A transient data module cannot continue processing following the failure of a *dfhxxyym* call to domain *xx*.

The response (code X'*response*) and reason (code X'*reason*) are those returned from the domain call (that is, *xxyy_response* and *xxyy_reason*).

System action: This is a critical error and CICS is terminated, even if you have specified in the dump table that CICS should not terminate.

A system dump with dumpcode TD0180 is taken unless you have specifically suppressed dumps in the dump table.

Message DFHME0116 should be produced containing the symptom string for this problem.

User response: You need further assistance from IBM to resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHTDA, DFHTDB, DFHTDOC, DFHTDRM

XMEOUT Parameters: *applid, X'response', X'reason', dfhxxyym*

Destination: Console

DFHTD0182 *applid* **Unexpected response (code** *X'response'***) and reason (code** *X'reason'***) from a** *dfhxxyym* **call.**

Explanation: Module DFHTDRP cannot continue processing following the failure of a *dfhxxyym* call to domain *xx*.

The response (code X'*response*) and reason (code X'*reason*) are those returned from the domain call (that is, *xxyy_response* and *xxyy_reason*).

System action: This is a critical error.

CICS writes a dump and terminates abnormally.

Message DFHME0116 should be produced containing the symptom string for this problem.

User response: You need further assistance from IBM to resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHTDRP

XMEOUT Parameters: *applid, X'response', X'reason', dfhxxyym*

Destination: Console

DFHTD0183 *applid* **Unexpected response (code** *X'response'***) and reason (code** *X'reason'***) from a** *dfhxxyym* **call during processing of intrapartition queue** *queue***.**

Explanation: The trigger level has been reached for intrapartition transient data queue *queue*.

Module DFHTDB or DFHTDRM could not initiate the associated transaction following the response of a *dfhxxyym* call to domain *xx*.

The response (code X'*response*) and reason (code X'*reason*) are those returned from the domain call (that is, *xxyy_response* and *xxyy_reason*).

Initiation of the associated transaction has failed.

System action: This is probably a CICS logic error.

Each subsequent write to the transient data queue causes another attempt to initiate the transaction, which will fail. However, this message is only issued the first time the error is detected.

CICS writes a dump and continues processing. Message DFHME0116 should be produced containing the symptom string for this problem.

User response: You need further assistance from IBM to resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHTDB, DFHTDRM

XMEOUT Parameters: *applid, X'response', X'reason', dfhxxyym, queue*

Destination: Console

DFHTD0240 *applid* **Queue** *queue* **(DD name** *ddname***) is full.**

Explanation: No more data can be written to extrapartition queue *queue*.

A system abend, MVS code X'37, has occurred during processing on the data set with ddname *ddname*.

System action: If the system abend occurs during processing of an EXEC CICS WRITEQ TD command, the NOSPACE condition is returned.

If the system abend occurs during processing of an EXEC CICS SET TDQUEUE CLOSED command, the data set is not closed and the IOERR condition is returned.

Note that a second attempt to close the data set succeeds.

User response: Consider allocating more space to the data set before you bring CICS up again.

Module: DFHTDA, DFHTDOC

XMEOUT Parameters: *applid, queue,ddname*

Destination: Console

DFHTD0242 *applid* **Abend** *abcode* **has been detected during processing for queue** *queue* **(DD name** *ddname***).**

Explanation: A system abend, MVS code *abcode*, has occurred during processing on the extrapartition queue *queue* (that is, the data set with ddname *ddname*).

System action: A system dump with dumpcode TD0242 is taken unless you have specifically suppressed dumps in the dump table.

Since this may not be a critical error, CICS is not terminated, and the IOERROR condition is returned.

User response: Examine the CICS job log. QSAM issues a message explaining the reason for the system abend.

Module: DFHTDA, DFHTDOC

XMEOUT Parameters: *applid, abcode, queue, ddname*

Destination: Console

DFHTD0244 *applid* **An I/O error has occurred during an output operation to an extrapartition data set for queue** *queue***. (DD name =** *ddname***).**

Explanation: An I/O error has occurred during the processing of an output operation to the extrapartition data set *ddname* on queue *queue*.

System action: An IOERR condition is returned. Subsequent put requests are returned IOERR.

User response: Close data set *ddname* via CEMT. If the I/O errors persist after a subsequent open, you probably need to reallocate this data set on a different volume.

Module: DFHTDA, DFHTDOC

XMEOUT Parameters: *applid, queue, ddname*

Destination: Console

DFHTD0245 *applid* **NOSPACE condition on a PUT to the intrapartition data set (DD name** *ddname***). The RBA of the next CI would have exceeded 2 gigabytes.**

Explanation: An attempt to write to intrapartition transient data set with ddname *ddname* has failed due to a NOSPACE condition. CICS did attempt to extend the data set but the relative byte address (RBA) of the next control interval (CI), if it were added, would have exceeded 2 gigabytes (x'7FFFFFFF').

System action: The system continues normally.

User response: Delete unwanted transient data queues from the intrapartition data set.

Module: DFHTDB

XMEOUT Parameters: *applid, ddname*

Destination: Console

DFHTD0246 *applid* **An I/O error has occurred during an input operation to an extrapartition data set for queue** *queue***. (DD name =** *ddname***).**

Explanation: An I/O error has occurred during the processing of an input operation to the extrapartition data set *ddname* on queue *queue*.

System action: An IOERR condition is returned. Subsequent put requests are returned IOERR.

User response: Close data set *ddname* via CEMT. If the I/O errors persist after a subsequent open, you probably need to reallocate this data set on a different volume.

Check the definition of the extrapartition transient data queue. The specification of an invalid blocksize or recordsize may have caused the I/O error.

Module: DFHTDA, DFHTDOC

XMEOUT Parameters: *applid, queue, ddname*

Destination: Console

DFHTD0247 *applid* **NOSPACE condition on a PUT to the intrapartition data set (DD name** *ddname***). The data set is full.**

Explanation: An attempt to write to intrapartition transient data set with ddname *ddname* has failed due to a NOSPACE condition. CICS did attempt to extend the data set but no secondary space was defined or available.

System action: The system continues normally.

User response: Delete unwanted transient data queues from the intrapartition data set, or consider redefining the intrapartition data set with additional secondary storage allocation.

Module: DFHTDB

XMEOUT Parameters: *applid, ddname*

Destination: Console

DFHTD0250 *applid* **Dynamic allocation of queue** *queue* **failed. Return code** *X'rrrr',X'cccc'* **in module** *module***.**

Explanation: While dynamically allocating queue *queue*, CICS transient data issued an MVS DYNALLOC macro. The DYNALLOC failed with return code *cccc*. *rrrr* is the additional return code in register 15.

System action: CICS continues with queue *queue* closed.

User response: For the meaning of the DYNALLOC return codes, see the *z/OS MVS Programming Authorized Assembler Services Guide*.

Module: DFHTDOC

XMEOUT Parameters: *applid, queue,X'rrrr', X'cccc', module*

Destination: Console

DFHTD0251 *applid* **Dynamic deallocation of queue** *queue* **failed. Return code -** *X'rrrr'*,*X'cccc'* **in module** *module*.

Explanation: While closing queue *queue*, CICS transient data issued the MVS macro, DYNALLOC, to dynamically deallocate the queue. Deallocation failed with the MVS return code, *cccc*. *rrrr* is the return code in register 15.

System action: CICS continues with the queue closed, but still allocated.

Message DFHME0116 should be produced containing the symptom string for this problem.

User response: If you change the DSNAME attribute in the resource definition for the transient data queue, and then reopen the queue in the same CICS run, CICS may open the original data set. For an explanation of the MVS return code, see the *z/OS MVS Authorized Assembler Services Guide*.

Module: DFHTDOC

XMEOUT Parameters: *applid, queue, X'rrrr', X'cccc', module*

Destination: Console

DFHTD0252 *applid* **Open of queue** *queue* **failed. DSNAME not available from JCL or resource definition. Module** *module*.

Explanation: An attempt by CICS to open queue *queue* failed because neither the JCL nor the resource definition for the queue specified the data set name.

CICS transient data has not opened queue *queue*, for the following reasons

- At initialization time, the startup JCL did not include a DD statement.
- No user-submitted routine allocated the queue dynamically.
- The TDQUEUE resource definition does not contain a DSNAME attribute to enable CICS to allocate the file dynamically.

System action: CICS continues processing with queue *queue* closed.

User response: Before resubmitting the transaction, supply the data set name in the JCL or the resource definition.

Module: DFHTDOC

XMEOUT Parameters: *applid, queue,module*

Destination: Console

DFHTD0340 *applid* **Transaction** *tranid* **initiated when the trigger level is reached for Transient Data queue** *queue* **is defined as REMOTE. The transaction initiation has failed.**

Explanation: The trigger level has been reached for the transient data queue *queue*. The transaction associated with the queue is remote, which is invalid for trigger transactions. The initiation of the transaction has, therefore, failed.

System action: Until the error is corrected, each subsequent write to the transient data queue causes another attempt to initiate the transaction, which fails. However, in order to avoid filling the log with messages, this message is only issued the first time the error is detected.

User response: If the transaction ID specified in the TDQUEUE resource definition is incorrect, amend the resource definition to specify a transaction that is local.

Module: DFHTDXM

XMEOUT Parameters: *applid, tranid,queue*

Destination: Console

DFHTD0341 *applid* **Transaction** *tranid* **associated with the trigger level for Transient Data queue** *queue* **has not been initiated.**

Explanation: The trigger level has been reached for transient data queue *queue*. Initiation of the associated transaction has failed due to an error in system set up.

System action: Until the error is corrected, each subsequent write to the transient data queue causes another unsuccessful attempt to initiate the transaction. However, in order to avoid filling the log with messages, this message is only issued the first time the error is detected.

User response: Check the TDQUEUE resource definition for the transient data queue. The queue must have a transaction associated with it that exists, is defined as local, and is installed.

Module: DFHTDB, DFHTDRM

XMEOUT Parameters: *applid, tranid,queue*

Destination: Console

DFHTD0342 *applid* **Transaction** *tranid* **associated with the trigger level for Transient Data queue** *queue* **has not been scheduled.**

Explanation: The trigger level has been reached for the transient data queue *queue*. The schedule of the associated transaction has failed due to an error in system set up.

System action: Until the error is corrected, each subsequent write to the transient data queue causes another attempt to schedule the transaction, which fails. However, in order to avoid filling the log with messages, this message is only issued the first time the error is detected.

User response: Check the following and amend if necessary

- The queue must have a transaction associated with it that exists, is defined as local, and is installed. The transaction was local since the Remote attributes were not set in the transaction definition, yet the dynamic parm indicated that it could be remote.
- For a transient data queue defined with an ATIFACILITY attribute of SYSTEM or TERMINAL, the named facility must exist, and any required system links must be installed and in service.

Module: DFHTDB, DFHTDRM

XMEOUT Parameters: *applid, tranid,queue*

Destination: Console

DFHTD0343 *date time applid* **Automatic transaction restart for transaction** *tranid* **processing TD queue** *queue-name* **has failed.**

Explanation: A transaction that was attached when a TD trigger level was reached is ending abnormally and automatic transaction restart was requested for this transaction via the user replaceable module DFHREST. A severe error occurred when CICS attempted to restart the transaction.

System action: Message DFHAP0002 is issued with a dump for the severe error that caused the restart to fail. Abnormal termination of the transaction for which restart was requested continues. The transaction is not automatically restarted.

The system attempts to reattach the trigger level transaction when the next TD request is received for this TD queue and the trigger level has been reached or exceeded.

User response: Investigate the reason for the earlier severe error. See message DFHAP0002 for further guidance.

Module: DFHTDXM

XMEOUT Parameters: *date, time,applid, tranid, queue-name*

Destination: Console

DFHTD0360 *applid* **Logical I/O error occurred during a GET request to the intrapartition data set (DD name** *ddname***); VSAM return codes are R15=***X'retcode'***, FDBK=***X'fdbkcode'***.**

Explanation: An attempt to read a control interval from the intrapartition data set with ddname *ddname* has failed due to a logical I/O error. *retcode* is the return code in register 15 and *fdbkcode* is the value of the feedback field in the request parameter list (RPL).

System action: This is a critical error and CICS is terminated, even if you have specified in the dump table that CICS should not terminate. A system dump with dumpcode TD0360 is taken unless you have specifically suppressed dumps in the dump table.

User response: Message DFHME0116 should be produced containing the symptom string for this problem. For the meaning of the codes in the message, refer to the *z/OS DFSMS Macro Instructions for Data Sets*.

You need further assistance from IBM to resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHTDB, DFHTDRM

XMEOUT Parameters: *applid, ddname, X'retcode', X'fdbkcode'*

Destination: Console

DFHTD0361 *applid* **Logical I/O error occurred during a PUT request to the intrapartition data set (DD name** *ddname***); VSAM return codes are R15=***X'retcode'***, FDBK=***X'fdbkcode'***.**

Explanation: An attempt to write or rewrite a control interval to the intrapartition data set with ddname *ddname* has failed due to a logical I/O error. *retcode* is the return code in register 15 and *fdbkcode* is the value of the feedback field in the request parameter list (RPL).

System action: This is a critical error and CICS is terminated, even if you have specified in the dump table that CICS should not terminate.

A system dump with dumpcode TD0361 is taken unless you have specifically suppressed dumps in the dump table.

Message DFHME0116 should be produced containing the symptom string for this problem.

User response: For the meaning of the codes in the message, refer to the *z/OS DFSMS Macro Instructions for Data Sets*.

You need further assistance from IBM to resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHTDB, DFHTDRM

XMEOUT Parameters: *applid, ddname, X'retcode', X'fdbkcode'*

Destination: Console

DFHTD0362 *applid* **Physical I/O error occurred during a GET request to the intrapartition data set (DD name** *ddname***); VSAM return codes are R15=***X'retcode'***, FDBK=***X'fdbkcode'***.**

Explanation: An attempt to read a control interval from the intrapartition data set with ddname *ddname* has failed due to a physical I/O error. *retcode* is the return code in register 15 and *fdbkcode* is the value of the feedback field in the request parameter list (RPL).

System action: A system dump with dumpcode TD0362 is taken unless you have specifically suppressed dumps in the dump table.

This is a critical error and CICS is terminated, even if you have specified in the dump table that CICS should not terminate.

User response: For the meaning of the codes in the message, refer to the *z/OS DFSMS Macro Instructions for Data Sets*.

A copy of the physical error message produced by VSAM appears in (one of) the transient data VSAM error message area(s) in the system dump.

Module: DFHTDB, DFHTDRM

XMEOUT Parameters: *applid, ddname, X'retcode', X'fdbkcode'*

Destination: Console

DFHTD0363 *applid* **Physical I/O error occurred during a PUT request to the intrapartition data set (DD name** *ddname***); VSAM return codes are R15=***X'retcode'***, FDBK=***X'fdbkcode'***.**

Explanation: An attempt to write or rewrite a control interval to the intrapartition data set with ddname *ddname* has failed due to a physical I/O error. *retcode* is the return code in register 15 and *fdbkcode* is the value of the feedback field in the request parameter list (RPL).

System action: A system dump with dumpcode TD0363 is taken unless you have specifically suppressed dumps in the dump table.

This is a critical error and CICS is terminated, even if you have specified in the dump table that CICS should not terminate.

User response: For the meaning of the codes in the message, refer to the *z/OS DFSMS Macro Instructions for Data Sets*.

A copy of the physical error message produced by VSAM will appear in (one of) the transient data VSAM error message area(s) in the system dump.

Module: DFHTDB, DFHTDRM

XMEOUT Parameters: *applid, ddname, X'retcode', X'fdbkcode'*

Destination: Console

DFHTD0380 *applid* **Illegal attempt to read control interval 0 for the intrapartition data set (DD name** *ddname***).**

Explanation: Control interval 0 in the intrapartition data set is reserved for transient data control information. The remaining control intervals are allocated to hold data for queues as determined by transient data processing on behalf of application program requests.

An invalid attempt has been made to read control interval 0 for the intrapartition data set with ddname *ddname*.

System action: This is a critical error and CICS is terminated, even if you have specified in the dump table that CICS should not terminate.

A system dump with dumpcode TD0380 is taken unless you have specifically suppressed dumps in the dump table.

Message DFHME0116 should be produced containing the symptom string for this problem.

User response: Each CICS record for an intrapartition transient data queue contains pointers which, if the queue is not empty, are relative byte addresses (RBAs) associated with the intrapartition data set with *ddname*.

Furthermore each allocated control interval, apart from the first, contains one or more user records as well as a queue control record. This latter record, the first in the control interval, contains the forward chain pointer or RBA for the next control interval containing data for the queue.

In each case, transient data assumes that RBAs address record boundaries within the intrapartition data set.

The assumption can be violated in several ways. The type of violation may be determined from

- a control interval print of the intrapartition data set, or
- using Access Method Services, or
- using the system dump.

Violations include

- THE WRONG INTRAPARTITION DATA SET WAS USED If the wrong data set has been used, that is, the data set used for this CICS start up was not used for the previous CICS start up, then it is highly probable that most of the RBAs in the CICS records for an intrapartition transient data queue will not address record boundaries in the intrapartition data set. A cold start or an initial start of CICS must be carried out.

- THE INTRAPARTITION DATA SET WAS ALTERED If the records have been moved, possibly through data set compression, then it is highly probable that control interval 0 will contain more than one record and that most of the RBAs in the CICS records for an intrapartition transient data queue will not address record boundaries in the intrapartition data set. A cold start or an initial start of CICS must be carried out.
- A CICS record for an intrapartition transient data queue WAS CORRUPTED If a CICS record for an intrapartition transient data queue has been corrupted, it is highly probable that just one or two RBAs will not address record boundaries in the intrapartition data set. A specialized trap may be required to identify the offending program.

  CICS may be restarted. An emergency restart for transient data will result in the RBAs being reconstructed from the system log and the intrapartition data set.

  If an activity keypoint was taken between the occurrence of the error and its detection, it may prove necessary for a cold start or an initial start of CICS to be carried out.
- AN I/O BUFFER WAS CORRUPTED If an I/O buffer has been corrupted, it is highly probable one of the RBAs in the CICS record for an intrapartition transient data queue will not address record boundaries in the I/O buffer. A specialized trap may be required to identify the offending program.

  CICS may be restarted. An emergency restart for transient data results in the RBAs being reconstructed from the system log and the intrapartition data set.

  Note: If the contents of the I/O buffer were written to the intrapartition data set between the occurrence of the error and its detection, it may prove necessary to perform a cold start or an initial start of CICS.
- A CICS LOGIC ERROR OCCURRED You need further assistance from IBM to resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHTDB, DFHTDRM

XMEOUT Parameters: *applid, ddname*

Destination: Console

DFHTD0381 *applid* **Invalid attempt to (re)write control interval 0 for the intrapartition data set (DD name** *ddname***).**

Explanation: Control interval 0 in the intrapartition data set is reserved for transient data control information; the remaining control intervals are allocated to hold data for queues as determined by transient data processing on behalf of application program requests.

An invalid attempt has been made to (re)write control interval 0 for the intrapartition data set with ddname *ddname*.

System action: This is a critical error and CICS is terminated, even if you have specified in the dump table that CICS should not terminate.

A system dump with dumpcode TD0381 is taken unless you have specifically suppressed dumps in the dump table.

Message DFHME0116 should be produced containing the symptom string for this problem.

User response: Refer to message DFHTD0380.

Module: DFHTDB, DFHTDRM

XMEOUT Parameters: *applid, ddname*

Destination: Console

DFHTD0382 *applid* **The output pointer for queue** *qqqq* **does not match the contents of the intrapartition data set (DD name** *ddname***).**

Explanation: The output pointer for queue *qqqq* does not address a record boundary within the intrapartition data set with ddname *ddname*.

System action: This is a critical error and CICS is terminated, even if you have specified in the dump table that CICS should not terminate. A system dump with dumpcode TD0382 is taken unless you have specifically suppressed dumps in the dump table.

Message DFHME0116 should be produced containing the symptom string for this problem.

User response: Refer to message DFHTD0380.

Module: DFHTDB, DFHTDRM

XMEOUT Parameters: *applid, qqqq,ddname*

Destination: Console

DFHTD0383 *applid* **The input pointer for queue** *qqqq* **does not match the contents of the intrapartition data set (DD name** *ddname***).**

Explanation: The input pointer for queue *qqqq* does not address a record boundary within the intrapartition data set with ddname *ddname*.

System action: This is a critical error and CICS is terminated, even if you have specified in the dump table that CICS should not terminate.

A system dump with dumpcode TD0383 is taken unless you have specifically suppressed dumps in the dump table.

Message DFHME0116 should be produced containing the symptom string for this problem.

User response: Refer to message DFHTD0380.

Module: DFHTDB, DFHTDRM

XMEOUT Parameters: *applid, qqqq,ddname*

Destination: Console

DFHTD0384 *applid* **A forward chain pointer for queue** *qqqq* **does not match the contents of the intrapartition data set (DD name** *ddname***).**

Explanation: A forward chain pointer for queue *qqqq* is invalid with respect to the intrapartition data set with ddname *ddname*.

System action: This is a critical error and CICS is terminated, even if you have specified in the dump table that CICS should not terminate. A system dump with dumpcode TD0384 is taken unless you have specifically suppressed dumps in the dump table.

Message DFHME0116 should be produced containing the symptom string for this problem.

User response: Refer to message DFHTD0380.

Module: DFHTDB, DFHTDRM

XMEOUT Parameters: *applid, qqqq,ddname*

Destination: Console

DFHTD0385 *applid* **Invalid attempt to allocate/deallocate CI 0 for the intrapartition data set (DD name** *ddname***).**

Explanation: Control interval (CI) 0 in the intrapartition data set, *ddname*, is reserved for transient data control information. The remaining control intervals are allocated to hold data for queues as determined by transient data processing on behalf of application program requests.

System action: System dump TD0385 is taken unless you have specifically suppressed dumps in the dump table.

This is a critical error. CICS is terminated even if you have specified in the dump table that CICS should not terminate.

User response: Refer to the **User Response** of message DFHTD0380.

Module: DFHTDB, DFHTDRM

XMEOUT Parameters: *applid, ddname*

Destination: Console

DFHTD0386 *applid* **The high RBA value of the primary extent for intrapartition data set (DD name** *ddname***) is X'***highrba***'. This exceeds the maximum allowable value of 2GB, and will be capped to a value of X'80000000' minus the CI size of the data set.**

Explanation: The high RBA value of the primary extent for intrapartition data set (DD name *ddname*), is X'highrba'. This exceeds the maximum allowable value of 2GB.

System action: CICS will cap the area that can be used to a value of X'80000000' minus the CI size of the data set.

User response: Consider reducing the size of the primary extent of the intrapartition data set.

Note: Do not attempt to reroute this message to a transient data queue.

Module: DFHTDRP

XMEOUT Parameters: *applid, ddname, X'highrba*

Destination: Console

DFHTD0401 *date time applid terminal userid tranid* **TDQUEUE entry for** *queuename* **has been deleted.**

Explanation: This is an audit log message indicating that transient data queue definition *tdqueuename* has been deleted using the DISCARD command. Where

- *terminal* is the netname or termid of the terminal associated with the transaction issuing the message. If there is no terminal associated with the transaction, the terminal name is suppressed.
- *userid* is the user identifier of the user associated with the transaction issuing the message.
- *tranid* is the transaction issuing the message.

System action: The system continues normally.

User response: None.

Module: DFHTDTM

XMEOUT Parameters: *date, time,applid, terminal, userid, tranid, queuename*

Destination: CSQL

DFHTD0402 *date time applid terminal userid tranid* **TDQUEUE entry for** *tdqueuename* **has been added.**

Explanation: This is an audit log message indicating that transient data queue definition *tdqueuename* has been added using the INSTALL command Where

- *terminal* is the netname or termid of the terminal associated with the transaction issuing the message.

If there is no terminal associated with the transaction, the terminal name is suppressed.

- *userid* is the user identifier of the user associated with the transaction issuing the message.
- *tranid* is the transaction issuing the message.

System action: The system continues normally.

User response: None.

Module: DFHTDTM

XMEOUT Parameters: *date, time,applid, terminal, userid, tranid, tdqueuename*

Destination: CSQL

DFHTD0403 *date time applid terminal userid tranid* **TDQUEUE entry for** *tdqueuename* **has been replaced.**

Explanation: This is an audit log message indicating that transient data queue definition *tdqueuename* has been replaced using the INSTALL command. Where

- *terminal* is the netname or termid of the terminal associated with the transaction issuing the message. If there is no terminal associated with the transaction, the terminal name is suppressed.
- *userid* is the user identifier of the user associated with the transaction issuing the message.
- *tranid* is the transaction issuing the message.

System action: The system continues normally.

User response: None.

Module: DFHTDTM

XMEOUT Parameters: *date, time,applid, terminal, userid, tranid, tdqueuename*

Destination: CSQL

DFHTD1210 *applid* **DCT index in error,** *xxxx* **failed**

Explanation: While carrying out operation *xxxx* (INSTALL) CICS found an error in the destination control table (DCT) index. This message is issued on warm or emergency restarts when transient data is installing entries from the global catalog. The most likely reasons for this error are

1. Storage violation.

   An application program has overwritten the index,

   or
2. CICS logic error

   The CICS Directory Domain created the index incorrectly. **or**
3. Corrupt global catalog entries

   The global catalog has been corrupted.

System action: CICS writes a dump. The transaction abnormally terminates with abend code ATDY and message DFHSI1522 is issued.

Message DFHME0116 should be produced containing the symptom string for this problem.

User response: Respond GO or CANCEL to message DFHSI1522.

Look at the contents of the global catalog, to determine if the catalog entry has been corrupted for the DCTE that is failing to install.

Assuming that the error is a storage violation, and that you have activated the trace facility, find in the trace the unsuccessful attempt to access the DCT by DFHTDP. Then find the last preceding successful access. You have now narrowed the search to programs that were running between these two accesses. Examine these programs for an error that could cause a storage violation.

If you have not activated trace, but you can recreate the error, activate trace, recreate the error, and proceed as in the previous paragraph.

Module: DFHTDRP

XMEOUT Parameters: *applid, xxxx*

Destination: Console

DFHTD1217 *applid* **Unable to install resource definition for transient data queue** *xxxx***.**

Explanation: During a warm or emergency restart, CICS was unable to install the resource definition for the transient data queue *xxxx*.

System action: CICS ignores the definition and continues initialization.

User response: The cause of this install failure may be indicated in earlier messages issued from the transient data (TD) component. It may be the result of a failure to open the DFHINTRA data set, or a security error associated with any userid included in the definition. In the latter case, it is possible to create an RDO definition for the entry, with the correct userid, once CICS has initialized, and then to install it using the CEDA transaction.

Module: DFHTDRP

XMEOUT Parameters: *applid, xxxx*

Destination: Console

DFHTD1221 *applid* **Transient data queue definitions not restored,** *xxxx* **failed**

Explanation: During a warm start, while carrying out operation *xxxx* (STARTBROWSE, GETNEXT or ENDBROWSE), the transient data recovery program (DFHTDRP) found an error in the catalog table of transient data queue definitions.

The most likely reasons for this error are I/O errors in the catalog data set, or a logic error in the CICS module, DFHCCCC.

System action: CICS writes a dump. The transaction abnormally terminates with abend code ATDY and message DFHSI1522 is issued.

Message DFHME0116 should be produced containing the symptom string for this problem.

User response: Respond GO or CANCEL to message DFHSI1522.

Determine and correct the I/O errors on the catalog data set. If you cannot restore the catalog data set, or suspect that there might be a CICS logic error in DFHCCCC, you will need further assistance from IBM. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHTDRP

XMEOUT Parameters: *applid, xxxx*

Destination: Console

DFHTD1260 *applid* **No DD statement for intrapartition data set** *ddname*

Explanation: CICS is unable to open the intrapartition data set *ddname* because no DD statement has been provided.

System action: During a cold or initial start, transient data initialization continues until any transient data queue resource definitions have been processed. Any intrapartition queues found are not installed and message DFHTD1217 is issued for each install failure encountered. At the end of TD initialization, message DFHTD0102 is issued. If no other initialization errors occur, message DFHSI1522 is issued.

For all other starts, TD checks the catalog to see if DFHINTRA had opened successfully on the previous CICS run. If it did, initialization is terminated. If it did not, TD initialization continues normally.

User response: During a cold or initial start, respond GO or CANCEL to message DFHSI1522.

Modify the CICS JCL to add a DD statement defining the intrapartition data set (DFHINTRA).

Module: DFHTDRP

XMEOUT Parameters: *applid, ddname*

Destination: Console

DFHTD1261 *applid* **Intrapartition data set** *ddname* **not defined as VSAM ESDS**

Explanation: CICS is unable to open the intrapartition data set *ddname* because it is not defined as VSAM ESDS.

System action: During a cold or initial start, transient data initialization continues until any transient data queue resource definitions have been processed. Any intrapartition queues found are not installed and message DFHTD1217 is issued for each install failure encountered. At the end of TD initialization, message DFHTD0102 is issued. If no other initialization errors occur, message DFHSI1522 is issued.

For all other starts, TD checks the catalog to see if DFHINTRA had opened successfully on the previous CICS run. If it did, initialization is terminated. If it did not, TD initialization continues normally.

User response: On a cold or initial start, respond GO or CANCEL to message DFHSI1522.

Recreate the intrapartition data set as a VSAM ESDS and restart CICS.

Module: DFHTDRP

XMEOUT Parameters: *applid, ddname*

Destination: Console

DFHTD1262 *applid* **Intrapartition data set** *ddname* **not formatted**

Explanation: The intrapartition data set *ddname* is not formatted (it is empty). Initial formatting is done (if necessary) when CICS is cold or initial started.

System action: CICS continue to initialize until all resource definitions for transient data queues have been installed. Any intrapartition definitions being read from the global catalogue will fail to install because of the original failure. When DFHTDRP completes its processing, CICS writes a dump. The transaction abnormally terminates with abend code ATDY and message DFHSI1522 is issued.

User response: Respond GO or CANCEL to message DFHSI1522.

Perform a cold or initial start when CICS is next brought up.

Module: DFHTDRP

XMEOUT Parameters: *applid, ddname*

Destination: Console

DFHTD1263 *applid* **Invalid control record for Intrapartition data set** *ddname*

Explanation: The intrapartition data set *ddname* was not initialized for intrapartition transient data. The most likely reason for this is data corruption by

- VSAM export and import
- DFHSM migration and recall.

System action: CICS writes a dump. The transaction abnormally terminates with abend code ATDY and message DFHSI1522 is issued.

User response: Respond GO or CANCEL to message DFHSI1522.

Reinitialize the intrapartition data set.

Module: DFHTDRP

XMEOUT Parameters: *applid, ddname*

Destination: Console

DFHTD1271 *applid* **VSAM error processing SHOWCB for intrapartition data set** *ddname*, **R15=***retcode*

Explanation: VSAM has detected an error during SHOWCB processing for the intrapartition data set *ddname* with VSAM return code *retcode*.

System action: CICS writes a dump. The transaction abnormally terminates with abend code ATDY and message DFHSI1522 is issued.

Message DFHME0116 should be produced containing the symptom string for this problem.

User response: Respond GO or CANCEL to message DFHSI1522.

Check the return code in the *z/OS DFSMS Macro Instructions for Data Sets*.

Module: DFHTDRP

XMEOUT Parameters: *applid, ddname, retcode*

Destination: Console

DFHTD1272 *applid* **VSAM error processing OPEN for Intrapartition data set** *ddname*, **R15=***retcode*, **RC=***errorcode*

Explanation: VSAM has detected an error during OPEN processing for the intrapartition data set *ddname*. *retcode* is the VSAM return code and *errorcode* is the VSAM error code.

System action: CICS writes a dump, then attempts to continue with initialization. If a cold or initial start is taking place, any transient data queue resource definitions are installed, except for any intrapartition queues. If any of these are found, message DFHTD1217 is issued for each install failure. When TDRP completes its processing message DFHTD0102 is issued followed by message DFHSI1522.

For all other types of start, if DFHINTRA had failed during the previous run of CICS, processing continues as normal. If DFHINTRA was open on the previous run, CICS terminates.

Message DFHME0116 should be produced containing the symptom string for this problem.

User response: On a cold or initial start, respond GO or CANCEL to message DFHSI1522.

Check the return code and error code in the *DFSMS Macro Instructions for Data Sets*.

Module: DFHTDRP

XMEOUT Parameters: *applid, ddname,retcode, errorcode*

Destination: Console

DFHTD1273 *applid* **VSAM error processing CLOSE for intrapartition data set** *ddname*, **R15=***retcode*

Explanation: VSAM has detected an error during CLOSE processing for the intrapartition data set *ddname*. *retcode* is the VSAM return code.

System action: CICS writes a dump, then attempts to continue with initialization. If a cold or initial start is taking place, any transient data queue resource definitions are installed, except for any intrapartition queues. If any of these are found, message DFHTD1217 is issued for each install failure. When TDRP completes its processing message DFHTD0102 is issued followed by message DFHSI1522.

For all other types of start, if DFHINTRA had failed during the previous run of CICS, processing continues as normal. If DFHINTRA was open on the previous run, CICS terminates.

Message DFHME0116 should be produced containing the symptom string for this problem.

User response: For a cold or initial start, respond GO or CANCEL to message DFHSI1522.

Check the return code in the *DFSMS Macro Instructions for Data Sets*.

Module: DFHTDRP

XMEOUT Parameters: *applid, ddname,retcode*

Destination: Console

DFHTD1274 *applid* **VSAM error processing PUT for intrapartition data set** *ddname*, **R15=***retcode*, **RC=***errorcode*

Explanation: VSAM has detected an error during PUT processing for the intrapartition data set *ddname*. *retcode* is the VSAM return code and *errorcode* is the VSAM error code.

System action: CICS writes a dump. The transaction abnormally terminates with abend code ATDY and message DFHSI1522 is issued.

Message DFHME0116 should be produced containing the symptom string for this problem.

User response: Respond GO or CANCEL to message DFHSI1522.

Check the return code and error code in the *z/OS DFSMS Macro Instructions for Data Sets*.

Module: DFHTDRP

XMEOUT Parameters: *applid, ddname, retcode, errorcode*

Destination: Console

DFHTD1275 *applid* **VSAM error processing GET for intrapartition data set** *ddname*, **R15=***retcode*, **RC=***errorcode*

Explanation: VSAM has detected an error during GET processing for the intrapartition data set *ddname*. *retcode* is the VSAM return code and *errorcode* is the VSAM error code.

System action: CICS writes a dump. The transaction abnormally terminates with abend code ATDY and message DFHSI1522 is issued.

Message DFHME0116 should be produced containing the symptom string for this problem.

User response: Respond GO or CANCEL to message DFHSI1522.

Check the return code and error code in the *z/OS DFSMS Macro Instructions for Data Sets*.

Module: DFHTDRP

XMEOUT Parameters: *applid, ddname, retcode, errorcode*

Destination: Console

DFHTD1278 *applid* **An error occurred during initialization of intrapartition queue** *queuename* **for userid** *userid***. The queue has not been installed.**

Explanation: Transient data initialization detected an error with userid *userid* during installation of the intrapartition queue for automatic transaction initiation.

The specified userid is not valid for use by this CICS job for non-terminal transactions initiated by the transient data trigger.

There may be a previous message which gives the cause of this error.

System action: Transient data initialization continues.

The intrapartition queue definition is not installed.

User response: Notify the system programmer.

If the userid is invalid, correct the userid specified in the resource definition for the intrapartition queue.

If the userid is valid, ensure that it can be used by non-terminal transactions that are initiated by trigger for the intrapartition queue. See the *CICS RACF Security Guide* for guidance.

Module: DFHTDTM

XMEOUT Parameters: *applid, queuename, userid*

Destination: Console

DFHTD1279 *applid* **Unexpected response (code** *X'response'***) and reason (code** *X'reason'***) from a** *dfhxxyym* **call.**

Explanation: Module DFHTDTM detected the failure of a *dfhxxyym* call to domain *xx* while attempting to install an intrapartition entry containing a USERID.

The response (code X'*response*) and reason (code X'*reason*) are those returned from the domain call (that is, *xxyy_response* and *xxyy_reason*).

This can be due to a CICS logic error.

System action: If the error occurred during transient data initialization, this process will continue if possible. If processing cannot continue then a dump will be taken and an abend ATDY is issued.

User response: Refer to earlier messages and the dump produced by domain *xx*.

You need further assistance from IBM to resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHTDTM

XMEOUT Parameters: *applid, X'response', X'reason', dfhxxyym*

Destination: Console

DFHTD1280 *applid* **An attempt to establish security has failed for userid** *userid***. SAF codes are (***X'safresp'***,***X'safreas'***). ESM codes are (***X'esmresp'***,***X'esmreas'***).**

Explanation: An attempt was made to establish security for userid *userid*. The attempt was rejected by the external security manager (ESM).

System action: Security has not been established for the userid.

User response: The response and reason codes (*safresp* and *safreas*) returned by the system authorization facility (SAF), and the response and reason codes (*esmresp* and *esmreas*) returned by the external security manager (ESM) are those issued by the RACROUTE REQUEST=VERIFY or RACROUTE REQUEST=EXTRACT macros. These return codes are described in the *z/OS MVS Authorized Assembler Services Guide* and in *z/OS Security Server RACROUTE Macro Reference*. See these manuals for an explanation of the codes.

There may be further messages produced by CICS or the external security manager (ESM) which provide more information.

Module: DFHTDTM

XMEOUT Parameters: *applid, userid, X'safresp', X'safreas', X'esmresp', X'esmreas'*

Destination: Console

DFHTFnnnn messages

DFHTF0001 *applid* **An abend (code** *aaa/bbbb***) has occurred at offset** *X'offset'* **in module** *modname***.**

Explanation: An abnormal end (abend) or program check has occurred in module *modname*. This implies that there may be an error in the CICS code. Alternatively, unexpected data has been input, or storage has been overwritten.

The code *aaa/bbbb* is a 3-digit hexadecimal MVS code (if applicable), followed by a 4-digit alphanumeric CICS code. The MVS code is a system completion code (for example, 0C1 or D37). If an MVS code is not applicable, this field is filled with three hyphens. The CICS code is an abend code or a number referring to a CICS message (for example, AKEA is a CICS abend code; 1310 refers to message DFHTS1310).

System action: An exception entry is made in the trace table. A system dump is taken, unless you have specifically suppressed dumps in the dump table.

CICS continues unless you have specified in the dump table that CICS should terminate. In some circumstances CICS is terminated directly if the error occurred in a crucial XM domain module.

Message DFHME0116 should be produced containing the symptom string for this problem.

User response: If CICS is still running, it is necessary to decide whether to terminate CICS.

Look up the MVS code, if there is one, in the relevant MVS codes manual which is detailed in the book list in the front of this manual.

Next, look up the CICS alphanumeric code in this manual.

If module *modname* is not crucial to the running of your CICS system, you may decide to continue to run and bring CICS down at a convenient time to resolve the problem.

If you cannot run without the full use of module *modname* you should bring CICS down in a controlled shutdown.

You need further assistance from IBM to resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHTFIQ, DFHZSUP, DFHTFRF, DFHTFAL, DFHTFXM

XMEOUT Parameters: *applid, aaa/bbbb, X'offset', modname*

Destination: Console

DFHTF0002 *applid* **A severe error (code** *X'code'***) has occurred in module** *modname***.**

Explanation: An error has been detected in module *modname*. The code X'*code* is the exception trace point id which uniquely identifies what the error is and where the error was detected.

System action: An exception entry (code X'*code* in the message) is made in the trace table. A system dump is taken, unless you have specifically suppressed dumps in the dump table.

CICS continues unless you have specified in the dump table that CICS should terminate. In some circumstances CICS is terminated directly if the error is critical.

Message DFHME0116 should be produced containing the symptom string for this problem.

User response: This indicates a possible error in CICS code. The severity of its impact depends on the importance of the function being executed at the time of the error.

CICS may not have been terminated. If the message occurs once and module *modname* is not crucial to the running of your CICS system, you may decide to continue to run and bring CICS down at a convenient time to resolve the problem.

If the message recurs or if you cannot run without the full use of module *modname*, you should bring CICS down in a controlled shutdown.

You need further assistance from IBM to resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHTFIQ, DFHZSUP, DFHTFRF, DFHTFAL

XMEOUT Parameters: *applid, X'code',modname*

Destination: Console

DFHTF0100 *date time applid nnnn* **AIDs canceled for terminal** *termid***.** *nnnn* **AIDs remain.**

Explanation: AIDs queuing for terminal *termid* have been canceled. This could be due to the terminal being deleted, or as a result of an SPI or CEMT SET TERMINAL(*termid*) CANCEL command. Any AIDs remaining after this operation are also enumerated in this message. For programming information about CICS SET TERMINAL, see the *CICS System Programming Reference*. For information about the equivalent CEMT command, see the *CICS Supplied Transactions*.

System action: Requests represented as AIDs queuing for the terminal have been purged from the system.

User response: None.

Module: DFHALP

XMEOUT Parameters: *date, time,applid, nnnn, termid, nnnn*

Destination: CSMT

DFHTF0101 *date time applid nnnn* **AIDs** *{canceled | force-canceled}* **for connection** *conname***.** *nnnn* **AIDs remain.**

Explanation: AIDs queuing for connection *conname* have been canceled or force-canceled. This could be due to connection reinstall, or as a result of a SPI or CEMT SET CONNECTION(*conname*) CANCEL or FORCECANCEL command. Any AIDs remaining after this operation are also enumerated in this message. See the *CICS System Programming Reference* for more information.

System action: Requests represented as AIDs queuing for the connection will have been purged from the system.

User response: None.

Module: DFHALP

XMEOUT Parameters: *date, time,applid, nnnn, {1=canceled,2=force-canceled}, conname, nnnn*

Destination: CSMT

DFHTInnnn messages

DFHTI0001 *applid* **An abend (code** *aaa/bbbb***) has occurred at offset** *X'offset'* **in module** *modname***.**

Explanation: An abnormal end (abend) or program check has occurred in module *module*. This implies that there may be an error in CICS code. Alternatively, unexpected data has been input, or storage has been overwritten.

The code *aaa/bbbb* is a three digit hexadecimal MVS code (if applicable), followed by a four digit alphanumeric CICS code. The MVS code is a system completion code (for example, 0C1 or D37). If an MVS code is not applicable, this field is filled with three hyphens. The CICS code is an abend code or a number referring to a CICS message (for example, AKEA is a CICS abend code; 1310 refers to message DFHTS1310).

Message DFHME0116 should be produced containing the symptom string for this problem.

System action: An exception entry is made in the trace table. A system dump is taken, unless you have specifically suppressed dumps in the dump table.

CICS continues unless you have specified in the dump table that CICS should terminate. If appropriate, an error return code is sent to the caller of this domain. In this case, CICS could be terminated by the caller (for example the domain manager, DFHDMDM). A message is issued to this effect.

User response: Notify the system programmer. If CICS is still running, it is necessary to decide whether to terminate CICS.

Look up the MVS code, if there is one, in the relevant MVS codes manual which is detailed in the book list in the front of this manual. Next, look up the CICS alphanumeric code in this manual. This tells you, for example, whether the error was a program check, an abend, or a runaway, and may give you some guidance concerning user response.

If module *modname* is not crucial to the running of your CICS system, you may decide to continue to run and bring CICS down at a convenient time to resolve the problem.

If you cannot run without the full use of module *modname* you should bring CICS down in a controlled shutdown.

You need further assistance from IBM to resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHTISR, DFHTIDM

XMEOUT Parameters: *applid, aaa/bbbb, X'offset', modname*

Destination: Console

DFHTI0004 *applid* **A possible loop has been detected at offset** *X'offset'* **in module** *modname***.**

Explanation: A CICS function is taking more time to process than CICS expects. A possible loop has been detected in module *modname* at offset X'*offset*. This is the offset of the instruction which was executing at the time when the error was detected.

Message DFHME0116 should be produced containing the symptom string for this problem.

System action: An exception entry is made in the trace table. A system dump is taken, unless you have specifically suppressed dumps in the dump table.

CICS continues unless you have specified in the dump table that CICS should terminate. If appropriate, an error return code is sent to the caller of this domain. In this case, CICS could be terminated by the caller (for example the domain manager, DFHDMDM). A message is issued to this effect.

User response: If CICS has not been terminated, it is necessary to decide whether the problem is serious enough to bring CICS down.

Since some CICS functions can use a lot of processor

time, this message may have been caused by a long-running function. So there may not be an error here. Usually, CICS purges a CICS function which exceeds the runaway task time interval which you have specified in the SIT (this is the ICVR which is measured in milliseconds). This means that module *modname* is terminated and CICS continues.

But if you have declared ICVR=0 in the SIT and you consider that module *modname* has gone into a loop, you have to terminate CICS in order to terminate the runaway function.

If CICS has terminated module *modname* and you consider that it was not a runaway, you should increase the ICVR time interval in the SIT. You have to bring CICS down at a suitable time to do this permanently. But you can change the ICVR time interval temporarily online, using the CEMT transaction.

If raising the ICVR time does not solve the problem, you will need further assistance from IBM. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHTISR, DFHTIDM

XMEOUT Parameters: *applid, X'offset', modname*

Destination: Console

DFHTI0005 *applid* **A hardware error has occurred (module** *modname***, code** *X'code'***). The Time-of-Day clock is invalid.**

Explanation: An error has occurred during the running of module *modname*. The MVS Store Clock facility is the timing mechanism for the operating system.

The code X'*code* is the exception trace point id which uniquely identifies the place where the error was detected.

Message DFHME0116 should be produced containing the symptom string for this problem.

System action: An exception entry (code X'*code* in the message) is made in the trace table. A system dump is taken, unless you have specifically suppressed dumps in the dump table.

CICS continues if possible, unless you have specified in the dump table that CICS should terminate. If appropriate, an error return code is sent to the caller of this domain. In this case, CICS could be terminated by the caller (for example the domain manager, DFHDMDM). A message is issued to this effect.

User response: If CICS is still running, it is necessary to decide whether to terminate CICS. First, investigate the MVS Store Clock and find out whether it is working properly. If this is the cause, you should take the appropriate action to have it repaired or replaced.

In the unlikely event that this is not a hardware problem, you will need further assistance from IBM. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHTISR, DFHTIDM

XMEOUT Parameters: *applid, modname,X'code'*

Destination: Console

DFHTI0100 *applid* **This is the Beta version of CICS TS which expires on** *date***.**

Explanation: You are running a version of CICS Transaction Server released as part of the Beta program. This version can be used under the terms and conditions described in the CICS Announcement letter. The Beta version can be used until the *beta_enddate* given in the message.

System action: CICS continues until *beta_enddate*.

User response: None.

Module: DFHTIDM, DFHAPTIM

XMEOUT Parameters: *applid, date*

Destination: Console

DFHTI0101 *applid* **CICS failed to initialize. Beta version of CICS TS expired on** *date***.**

Explanation: You are attempting to run a version of CICS Transaction Server released as part of the Beta program. This program has now finished.

System action: CICS terminates. The Beta version of CICS Transaction Server will not initialize.

User response: None.

Module: DFHTIDM, DFHAPTIM

XMEOUT Parameters: *applid, date*

Destination: Console

DFHTMnnnn messages

DFHTM1703 *applid product* **is being terminated by userid** *userid* **in transaction** *tranid{at netname | at terminal }terminal***.**

Explanation: This message is issued after a PERFORM SHUT IMMEDIATE request.

System action: The termination process continues.

User response: None.

Module: DFHSTP

XMEOUT Parameters: *applid, product,userid, tranid, {1= at netname , 2= at terminal }, terminal*

Destination: Console and Terminal End User

DFHTM1707I *applid* **Program DFHWKP cannot be found. No warm keypoint taken.**

Explanation: CICS cannot take a warm keypoint because the CICS module, DFHWKP, cannot be found in any data set concatenated in the DFHRPL DD statement in the CICS startup job stream.

System action: CICS passes control to the user phase 1 PLT program.

User response: None.

Module: DFHSTP

XMEOUT Parameter: *applid*

Destination: Console

DFHTM1709I *applid* **About to link to PLT programs.**

Explanation: DFHSTP is about to link to the user PLT program PLTSD parameter in the system initialization table. Note that this message may be issued even if PLTSD=NO is used. This occurs if the implied PLT program, EYU9VKIT, is executed because CPSMCONN=WUI is specified.

System action: Control is passed to the user PLT programs.

User response: None.

Module: DFHSTP

XMEOUT Parameter: *applid*

Destination: Console

DFHTM1710I *applid* **Control returned from PLT programs.**

Explanation: Control is returned to DFHSTP to continue system termination. Note that this message may be issued even if PLTSD=NO is used. This occurs if the implied PLT program, EYU9VKIT, is executed because CPSMCONN=WUI is specified.

System action: Control is returned to DFHSTP.

User response: None.

Module: DFHSTP

XMEOUT Parameter: *applid*

Destination: Console

DFHTM1711I *applid* **About to link to phase 2 PLT programs.**

Explanation: DFHSTP is about to link to the phase 2 PLT programs as defined by the PLTSD parameter in the system initialization table.

System action: CICS passes control to the phase 2 user PLT programs.

User response: None.

Module: DFHSTP

XMEOUT Parameter: *applid*

Destination: Console

DFHTM1712I *applid* **Control returned from phase 2 PLT programs.**

Explanation: CICS returns control to DFHSTP so that system shutdown may continue.

System action: CICS returns control to DFHSTP.

User response: None.

Module: DFHSTP

XMEOUT Parameter: *applid*

Destination: Console

DFHTM1715 *applid product* **is being quiesced by userid** *userid* **in transaction** *tranid{at netname | at terminal }terminal***.**

Explanation: This message is issued after a PERFORM SHUT request.

System action: Quiesce of CICS continues.

User response: None.

Module: DFHSTP

XMEOUT Parameters: *applid, product,userid, tranid, {1= at netname , 2= at terminal }, terminal*

Destination: Console and Terminal End User

| **DFHTM1718I** *date time applid* **About to link to user PLT program** *progname* **during the first stage of shutdown.**

| **Explanation:** CICS is about to invoke user PLT program *progname* during the first phase of shutdown.

| **System action:** *progname*

| **User response:** None. This message can be suppressed with the system initialization parameter MSGLVL=0.

| **Module:** DFHSTP

| **XMEOUT Parameters:** *date, time, applid, progname*

| **Destination:** CSSL

| **DFHTM1719I** *date time applid* **About to link to user PLT program** *progname* **during the second stage of shutdown.**

| **Explanation:** CICS is about to invoke user PLT

program *progname* during the second phase of shutdown.

System action: *progname* is executed.

User response: None. This message can be suppressed with the system initialization parameter MSGLVL=0.
DFHSTP

XMEOUT Parameters: *date, time, applid, progname*

DFHTM1752 *applid* **PLT - program** *progname* **not available.**

Explanation: The program list table (PLT) specified for shutdown contains program *progname*, but CICS is unable to link to the program because one of the following has occurred

- An executable copy of the program could not be brought into storage.
- The installed definition for the program is disabled.
- There is no installed definition for the program.

Note that this message may be issued even if PLTSD=NO is used. This occurs if the implied PLT program, EYU9VKIT, is executed because CPSMCONN=WUI is specified.

System action: CICS termination continues without executing program *progname*.

User response: In the next execution, check that each program specified in the PLT is contained as a data set concatenated to the DFHRPL DD statement in the startup job stream, and ensure that the program is defined and enabled.

Module: DFHSTP

XMEOUT Parameters: *applid, progname*

Destination: Console

DFHTM1780 *applid* **Abend has occurred while processing program** *progname* **during termination, code=***abcode***.**

Explanation: Program *progname* specified in the program list table (PLT) for shutdown has abnormally terminated. *abcode* is the abend code. Note that this message may be issued even if PLTSD=NO is used. This occurs if the implied PLT program, EYU9VKIT, is executed because CPSMCONN=WUI is specified.

System action: Control is passed to the next program specified in the PLT and a CICS dump is supplied for review.

User response: Refer to abend code *abcode* for further information about the error. Try and correct program *progname*.

Module: DFHSTP

XMEOUT Parameters: *applid, progname, abcode*

Destination: Console

DFHTM1781 *applid* **CICS shutdown cannot complete because some non-system user tasks have not terminated.**

Explanation: This message is issued during shutdown of the CICS session and indicates that one or more CICS tasks are still active, thereby delaying the successful termination of CICS.

System action: CICS shutdown waits until the active task or tasks are successfully terminated.

If the default shutdown transaction (CESD) is active, it attempts, after a delay, to purge and backout all active tasks. This usually leads to a successful termination of CICS within a few minutes without operator intervention.

User response: If the default shutdown transaction (CESD) is not active, determine which CICS tasks are still running, using the CEMT INQUIRE TASK command, and take whatever steps are necessary to terminate them.

Module: DFHSTP

XMEOUT Parameter: *applid*

Destination: Console

DFHTM1782I *applid* **All non-system tasks have been successfully terminated.**

Explanation: This message is issued during shutdown of the CICS session after successful termination by the user of any active tasks which had previously prevented termination.

System action: CICS shutdown continues normally.

User response: None

Module: DFHSTP

XMEOUT Parameter: *applid*

Destination: Console

DFHTM1783 *applid* **CICS shutdown cannot complete because a system task which prevents normal shutdown has not terminated.**

Explanation: This message is issued during shutdown of the CICS session and indicates that CICS system transaction CLS1 is still active, thereby preventing the successful termination of CICS.

System action: CICS shutdown waits until the active task is successfully terminated.

User response: Determine, what is delaying the CLS1 transaction (for example the other CICS job or system being hung), and take whatever steps are necessary to resolve the situation.

Module: DFHSTP

XMEOUT Parameter: *applid*

Destination: Console

DFHTM1784 *applid* **The user shutdown assist transaction** *tranid* **cannot be started.**

Explanation: This message is issued during CICS shutdown and indicates that the user shutdown assist transaction specified on the system initialization table (SIT), or on the CEMT or EXEC CICS PERFORM SHUTDOWN SDTRAN option could not be started.

System action: CICS shutdown continues without starting a shutdown assist transaction.

User response: Do one of the following

- Determine why the shutdown transaction could not start.
- Change or remove the SIT SDTRAN option.
- Change or remove the CEMT or EXEC CICS PERFORM SHUTDOWN SDTRAN option.

Module: DFHSTP

XMEOUT Parameters: *applid, tranid*

Destination: Console and Terminal End User

DFHTM1785 *date time applid* **The user shutdown assist transaction** *tranid* **cannot be started.**

Explanation: This message is issued during CICS shutdown and indicates that the user shutdown assist transaction specified on the system initialization table (SIT), or on the CEMT or EXEC CICS PERFORM SHUTDOWN SDTRAN option could not be started.

System action: A TRANIDERR is returned and CICS shutdown is not performed.

User response: Do one of the following

- Correct the shutdown transaction definition.
- Change or remove the SIT SDTRAN option.
- Change or remove the CEMT or EXEC CICS PERFORM SHUTDOWN SDTRAN option.

Module: DFHEIPSH

XMEOUT Parameters: *date, time,applid, tranid*

Destination: CSMT

DFHTM1797 *applid* **System termination program has abended.**

Explanation: While terminating CICS, the CICS system termination program DFHSTP has abnormally terminated.

System action: CICS terminates abnormally with a system dump.

User response: Try to find out why DFHSTP terminated. If you cannot resolve the problem, keep the dump and contact your IBM Support Center.

Module: DFHSTP

XMEOUT Parameter: *applid*

Destination: Console

DFHTM1798 *applid* **Requested dump in progress.**

Explanation: This message is issued when CICS is terminated before the requested dump has started.

System action: CICS produces a system dump and shutdown continues.

User response: None.

Module: DFHSTP

XMEOUT Parameter: *applid*

Destination: Console

DFHTOnnnn messages

DFHTO6000E *date time applid* **The definition for TERMINAL** *termdef* **refers to an undefined TYPETERM** *termtype***.**

Explanation: While installing a GRPLIST during initialization, or while executing a CEDA CHECK, a CEDA INSTALL, or an EXEC CICS CREATE command, CICS detected a TERMINAL definition (*termdef*) that referenced an nonexistent TYPETERM definition (*termtype*).

System action: The TERMINAL is not installed.

User response: Correct the TERMINAL definition or define the named TYPETERM.

Module: DFHTOR

XMEOUT Parameters: *date, time,applid, termdef, termtype*

Destination: CSMT

DFHTO6001E *date time applid* **The definition for pooled TERMINAL** *termdef* **refers to an undefined TYPETERM** *termtype***.**

Explanation: While installing a GRPLIST during initialization, or while executing a CEDA CHECK, a CEDA INSTALL, or an EXEC CICS CREATE command, CICS detected a TERMINAL definition (*termdef*) that referenced a nonexistent TYPETERM definition (*termtype*).

System action: The TERMINAL is not installed.

User response: Correct the TERMINAL definition or define the named TYPETERM.

Module: DFHTOR

XMEOUT Parameters: *date, time,applid, termdef, termtype*

Destination: CSMT

DFHTO6002E *date time applid* **The definition for SESSIONs** *sesdef* **refers to an undefined CONNECTION** *condef***.**

Explanation: While installing a GRPLIST during initialization, or while executing a CEDA CHECK, a CEDA INSTALL, or an EXEC CICS CREATE command, CICS detected a SESSIONS definition (*sesdef*) that referenced a nonexistent CONNECTION definition (*condef*).

System action: The SESSIONS definition is not installed.

User response: Correct the SESSIONS definition or define the named CONNECTION.

Module: DFHTOR

XMEOUT Parameters: *date, time,applid, sesdef, condef*

Destination: CSMT

DFHTO6003E *date time applid* **TERMINAL** *termdef* **specifies CONSNAME but refers to TYPETERM** *termtype* **which does not specify DEVICE=CONSOLE.**

Explanation: While installing a GRPLIST during initialization, or while executing a CEDA CHECK, a CEDA INSTALL, or an EXEC CICS CREATE command, CICS detected a TERMINAL definition (*termdef*), specified with CONSNAME=*name*, which referred to a TYPETERM definition (*termtype*) specified without DEVICE=CONSOLE.

System action: The TERMINAL definition is not installed. (The TYPETERM definition is installed and may be referred to by other compatible TERMINAL definitions).

User response: Correct the TERMINAL or TYPETERM definition.

Module: DFHTOR

XMEOUT Parameters: *date, time,applid, termdef, termtype*

Destination: CSMT

DFHTO6004E *date time applid* **TERMINAL** *termdef* **does not specify a CONSNAME but refers to TYPETERM** *termtype* **which specifies DEVICE=CONSOLE.**

Explanation: While installing a GRPLIST during initialization, or while executing a CEDA CHECK, a CEDA INSTALL, or an EXEC CICS CREATE command, CICS detected a TERMINAL definition (*termdef*), without CONSNAME=*name* specified, which referred to a TYPETERM definition (*termtype*) specified with DEVICE=CONSOLE.

System action: The TERMINAL definition is not installed. (The TYPETERM definition is installed and may be referred to by other compatible TERMINAL definitions).

User response: Correct the TERMINAL or TYPETERM definition.

Module: DFHTOR

XMEOUT Parameters: *date, time,applid, termdef, termtype*

Destination: CSMT

DFHTO6005E *date time applid* **PRINTER or ALTPRINTER for TERMINAL** *termdef* **is invalid for the DEVICE specified in TYPETERM** *termtype***.**

Explanation: While installing a GRPLIST during initialization, or while executing a CEDA CHECK, a CEDA INSTALL, or an EXEC CICS CREATE command, CICS detected a TERMINAL definition (*termdef*) specified with PRINTER or ALTPRINTER or both, which referred to a TYPETERM definition (*termtype*) that did not specify one of these DEVICEs 3270, 3275, 3270P, LUTYPE2, or LUTYPE3.

System action: The TERMINAL definition is not installed. (The TYPETERM definition is installed and may be referenced by other compatible TERMINAL definitions).

User response: Correct the TERMINAL or TYPETERM definition.

Module: DFHTOR

XMEOUT Parameters: *date, time,applid, termdef, termtype*

Destination: CSMT

DFHTO6006E *date time applid* **PRINTERCOPY or ALTPRINTCOPY for TERMINAL** *termdef* **is invalid for the DEVICE specified in TYPETERM** *termtype***.**

Explanation: While installing a GRPLIST during initialization, or while executing a CEDA CHECK, a CEDA INSTALL, or an EXEC CICS CREATE command, CICS detected incompatible TERMINAL and TYPETERM definitions. The TERMINAL definition *termdef* specified PRINTERCOPY or ALTPRINTCOPY or both, but referred to a TYPETERM definition *termtype* which specified an LUTYPE2 or LUTYPE3 device.

System action: The TERMINAL definition is not installed. (The TYPETERM definition is installed and may be referenced by other compatible TERMINAL definitions).

User response: Correct the TERMINAL or TYPETERM definition.

Module: DFHTOR

XMEOUT Parameters: *date, time,applid, termdef, termtype*

Destination: CSMT

DFHTO6007E *date time applid* **AUTINSTMODEL YES|ONLY for TERMINAL** *termdef* **is invalid for the DEVICE specified in TYPETERM** *termtype***.**

Explanation: While installing a GRPLIST during initialization, or while executing a CEDA CHECK, a CEDA INSTALL, or an EXEC CICS CREATE command, CICS detected a TERMINAL definition (*termdef*) specified with AUTINSTMODEL=YES|ONLY, which referred to a TYPETERM definition (*termtype*) that specified DEVICE=3614|TLX|TWX, or was a PIPELINE terminal.

System action: The TERMINAL definition is not installed. (The TYPETERM definition is installed and may be referenced by other compatible TERMINAL definitions).

User response: Correct the TERMINAL or TYPETERM definition.

Module: DFHTOR

XMEOUT Parameters: *date, time, applid, termdef, termtype*

Destination: CSMT

DFHTO6009E *date time applid* **The definition for SESSIONs** *sesdef* **refers to CONNECTION** *condef* **which specifies a different PROTOCOL.**

Explanation: While installing a GRPLIST during initialization, or while executing a CEDA CHECK, a CEDA INSTALL, or an EXEC CICS CREATE command, CICS detected a SESSIONS definition (*sesdef*) that referred to a CONNECTION definition (*condef*) that specified a different PROTOCOL.

System action: The SESSIONS definition is not installed.

User response: Correct the SESSIONS or CONNECTION definition.

Module: DFHTOR

XMEOUT Parameters: *date, time,applid, sesdef, condef*

Destination: CSMT

DFHTO6010E *date time applid* **The definition for SESSIONs** *sesdef* **must specify PROTOCOL LU61 as it refers to an MRO CONNECTION** *condef***.**

Explanation: While installing a GRPLIST during initialization, or while executing a CEDA CHECK, a CEDA INSTALL, or an EXEC CICS CREATE command, CICS detected a SESSIONS definition (*sesdef*), specified without LU61, which referred to a CONNECTION definition (*condef*) that specified ACCESSMETHOD={IRC|XM} (MRO).

System action: The SESSIONS definition is not installed.

User response: Correct the SESSIONS or CONNECTION definition.

Module: DFHTOR

XMEOUT Parameters: *date, time,applid, sesdef, condef*

Destination: CSMT

DFHTO6011E *date time applid* **SESSIONs** *sesdef* **must specify both SENDCOUNT and RECEIVECOUNT as it refers to an MRO CONNECTION** *condef***.**

Explanation: While installing a GRPLIST during initialization, or while executing a CEDA CHECK, a CEDA INSTALL, or an EXEC CICS CREATE command, CICS detected a SESSIONS definition (*sesdef*), specified with either SENDCOUNT=0 or RECEIVECOUNT=0, which referred to a CONNECTION definition (*condef*) that specified ACCESSMETHOD={IRC|XM} (MRO).

System action: The SESSIONS definition is not installed.

User response: Correct the SESSIONS or CONNECTION definition.

Module: DFHTOR

XMEOUT Parameters: *date, time,applid, sesdef, condef*

Destination: CSMT

DFHTO6012 *date time applid* **The catalog data set is not available. RDO function is restricted.**

Explanation: During initialization for a cold or initial start, CICS could not find the global catalog data set.

System action: CICS continues, but with the following restrictions to RDO function

- A TYPETERM definition must be in the same group as the TERMINAL definitions that refer to it.
- AUTOINSTALL is not available, because the MODEL definitions cannot be stored.

User response: If you wish to avoid the above restrictions to RDO function in future CICS runs, create a global catalog data set and make it available to CICS in the DFHGCD DD statement of the CICS startup job stream.

Module: DFHTORP

XMEOUT Parameters: *date, time, applid*

Destination: CSMT

DFHTO6013E *date time applid* **No SESSIONs definition refers to CONNECTION** *condef***.**

Explanation: During installation of a GRPLIST at initialization time, during CEDA INSTALL of a GROUP, a CHECK, or an EXEC CICS CREATE command, a CONNECTION definition was detected that had no valid SESSIONS definitions. This is valid only for INDIRECT or REMOTE connections.

System action: The CONNECTION is not installed.

If the reason for the failure is one or more invalid SESSIONS definitions, CICS issues another message which identifies the incorrect definition(s). If the reason was a missing SESSIONS definition, this is the only message.

User response: Correct the CONNECTION definition, create a SESSIONS definition, or correct existing SESSIONS definition(s), as appropriate.

Module: DFHTOR

XMEOUT Parameters: *date, time,applid, condef*

Destination: CSMT

DFHTO6014E *date time applid* **POOL is required for TERMINAL** *termdef* **as it refers to TYPETERM** *typedef* **which specifies SESSIONTYPE=PIPELINE.**

Explanation: An attempt has been made to install a terminal whose TYPETERM specified SESSIONTYPE=PIPELINE, but whose terminal definition did not specify POOL.

System action: CICS initialization continues, but TERMINAL *termdef* is not installed.

User response: Correct the TERMINAL definition, or the TYPETERM definition.

Module: DFHTOR

XMEOUT Parameters: *date, time,applid, termdef, typedef*

Destination: CSMT

DFHTO6015E *date time applid* **TRANSACTION for TERMINAL** *termdef* **is invalid for the DEVICE specified in TYPETERM** *typedef***.**

Explanation: An attempt has been made to install a TERMINAL definition which specified TRANSACTION, but referred to a TYPETERM specifying device APPC.

System action: CICS initialization continues, but TERMINAL *termdef* is not installed.

User response: Correct the TERMINAL definition, or the TYPETERM definition.

Module: DFHTOR

XMEOUT Parameters: *date, time,applid, termdef, typedef*

Destination: CSMT

DFHTO6016E *date time applid* **The MRO CONNECTION** *condef* **is referenced by more than one SESSIONs definition, including** *sesdef***.**

Explanation: When installing a GRPLIST during initialization, or while executing a CEDA CHECK, a CEDA INSTALL, or an EXEC CICS CREATE command, CICS has detected a CONNECTION definition *condef* that specified ACCESSMETHOD=(IRC|XM), which implies that it is an MRO connection. This CONNECTION was then referenced by more than one SESSIONS definition, one of which was *sesdef*. An MRO connection must only have one SESSIONS definition referencing it. Other SESSION definition names that reference this CONNECTION are listed in further occurrences of this message.

System action: The CONNECTION definition is not installed.

User response: Correct the CONNECTION definition or the SESSIONS definitions.

Module: DFHTOR

XMEOUT Parameters: *date, time,applid, condef, sesdef*

Destination: CSMT

DFHTO6017E *date time applid* **REMOTESYSTEM for TERMINAL '***termid***' is invalid for the DEVICE specified in TYPETERM '***typeterm***'.**

Explanation: When installing a GRPLIST during initialization, or while executing a CEDA CHECK, a CEDA INSTALL, or an EXEC CICS CREATE command, CICS detected a CONSOLE that was defined as remote. This is an invalid option.

System action: The CONSOLE is not installed.

User response: Correct the CONSOLE that is defined as remote.

Module: DFHTOR

XMEOUT Parameters: *date, time,applid, termid, typeterm*

Destination: CSMT

DFHTO6018E *date time applid* **TERMINAL '***termid***' refers to TYPETERM '***typeterm***' which has an invalid ALTSCREEN.**

Explanation: A TYPETERM definition includes an invalid ALTSCREEN. ALTSCREEN has two components; width and height. One of these components is zero while the other is nonzero. This is

an invalid combination. CICS has detected this problem in a TERMINAL definition while installing a GRPLIST during initialization, or while executing a CEDA CHECK, a CEDA INSTALL, or an EXEC CICS CREATE command.8

System action: The TERMINAL definition is not installed.

User response: Correct the TYPETERM that is referenced or reference a different TYPETERM in the TERMINAL definition. See the *CICS Resource Definition Guide* for details of valid ALTSCREEN values.

Module: DFHTOR

XMEOUT Parameters: *date, time,applid, termid, typeterm*

Destination: CSMT

DFHTO6019E *date time applid* **User** *userid* **is not authorized to install TERMINAL** *tttt* **with preset security.**

Explanation: User *userid* was attempting to install TERMINAL *tttt* but the userid does not have sufficient authority. This is because the TERMINAL has preset security (the definition for TERMINAL *tttt* specifies a USERID value). Installing a resource with preset security requires special authorization.

System action: Resource security violation messages are logged to the CSCS transient data queue and to the system console. The resource is not installed. CICS continues.

User response: In order to install this resource, do one of the following
- Use the CESN transaction to sign on with a userid that is permitted to install TERMINALs with preset security.
- Ask your security administrator to authorize user *userid* to install terminals with preset security.
- Remove the USERID specification from the resource definition and install the resource without preset security.

Module: DFHTOATM

XMEOUT Parameters: *date, time,applid, userid, tttt*

Destination: CSMT

DFHTO6020E *date time applid* **SESSIONS** *sesdef* **refers to single-session CONNECTION** *condef* **but has an invalid MAXIMUM option specified.**

Explanation: The value specified for the MAXIMUM option in the SESSIONS definition *sesdef* is incompatible with the CONNECTION definition *condef* because *condef* is defined as single-session. This was detected when *sesdef* referred to *condef* during installation of a GRPLIST at initialization, during CEDA INSTALL of a GROUP, or following a CHECK command, or during an EXEC CICS CREATE.

When a SESSION definition refers to a single-session CONNECTION definition, the value of the MAXIMUM option should be *(1,0)*.

System action: The SESSIONS definition is not installed.

User response: There are two ways to solve this problem
- Correct the SESSIONS definition by specifying MAXIMUM(1,0) using either CEDA or the CSD batch update utility DFHCSDUP.
- Redefine the CONNECTION definition so that it is no longer single-session by specifying SINGLESESS=NO.

Module: DFHTOR

XMEOUT Parameters: *date, time,applid, sesdef, condef*

Destination: CSMT

DFHTO6023E *date time applid* **Connection definition @BCH detected. Batch shared database connections are not supported.**

Explanation: While installing a GRPLIST during initialization, or while executing a CEDA CHECK, a CEDA INSTALL, or an EXEC CICS CREATE command, CICS detected a CONNECTION definition named @BCH. In previous releases this connection definition was reserved for use with batch shared database support, and allowed zero send sessions to be defined for an IRC connection. CICS Transaction Server for z/OS, Version 4 Release 2 does not support batch shared database and does not allow the associated sessions definition to specify zero send sessions.

System action: Installation of @BCH sessions fails.

User response: Remove the SESSIONS and CONNECTION definitions for batch shared database.

Module: DFHTOR

XMEOUT Parameters: *date, time, applid*

Destination: CSMT

DFHTO6025E *date time applid* **The definition for LU6.1 SESSIONs** *sesdef* **specifies a send or receive count with no prefix.**

Explanation: While installing a GRPLIST during initialization, or while executing a CEDA CHECK, a CEDA INSTALL, or an EXEC CICS CREATE command, CICS detected an LU6.1 SESSIONS definition (*sesdef*) that specified a send count with no send prefix or a receive count with no receive prefix. Prefixes must be specified for LU6.1.

System action: The SESSIONS definition is not installed.

User response: Correct the definition referred to in the message.

Module: DFHTOR

XMEOUT Parameters: *date, time,applid, sesdef*

Destination: CSMT

DFHTPnnnn messages

DFHTP4101 Cannot reset from temporary paging to autopaging.

Explanation: A terminal requested that it be reset from temporary paging status to autopaging status. However, the terminal is defined as a paging terminal, or the message is marked to state that the operator must purge it.

System action: Other processing continues.

User response: If the terminal is defined as a purging terminal, use the master terminal program to change the status of the terminal.

If the message is so marked, the operator must purge the message. The system then automatically resets the status to autopaging.

Module: DFHTPR

Destination: Terminal End User

DFHTP4102 *nnnn* messages are queued for immediate delivery.

Explanation: The operator requested the *nnnn* messages to be delivered via the page retrieve command queue.

System action: The count of messages queued for this operator or terminal is displayed.

User response: None.

Module: DFHTPR

Destination: Terminal End User

DFHTP4103 Attempting to PURGE, COPY or CHAIN, but no pages are currently connected to this terminal.

Explanation: There are currently no tasks attached to this terminal.

System action: Other processing continues.

User response: None.

Module: DFHTPR

Destination: Terminal End User

DFHTP4104 A paging request was received but there are no pages for display.

Explanation: The CICS paging command (CSPG) or a request for paging was entered from a terminal in transaction status, but there are no pages to be displayed at the terminal.

System action: Other processing continues.

User response: None.

Module: DFHTPR

Destination: Terminal End User

DFHTP4105 The specified message is not recognized.

Explanation: The terminal operator tried to retrieve or purge a specific message using a message identifier (rather than the current or next available message). However, the specified message does not exist, or is not destined for this terminal.

System action: Other processing continues.

User response: None.

Module: DFHTPR

Destination: Terminal End User

DFHTP4106 You are not allowed to RETRIEVE or PURGE this message.

Explanation: The terminal operator tried to retrieve or purge a specific message using a message identifier (rather than the current or next available message). However, the specified message is not destined for this operator identifier.

System action: Other processing continues.

User response: None.

Module: DFHTPR

Destination: Terminal End User

DFHTP4107 Chain value *chain* is less than 1 or greater than the level of chaining allowed.

Explanation: The chain value, *chain*, as indicated by the page retrieval command, is either less than one or is greater than the level of chaining at that terminal.

System action: Other processing continues.

User response: None.

Module: DFHTPR

Destination: Terminal End User

DFHTP4108 Requested page *pageno* does not exist (it is less than 1 or more than the number of pages in the message).

Explanation: The page *pageno*, as indicated by the page retrieval command, is either less than one or is greater than the number of pages in the message. This can be caused, for example, by requesting the previous page after the first page, or the next page after the last page.

System action: Other processing continues.

User response: The paging session can be continued with a valid page value. The last valid page displayed is still the current page. For example, to recall the last valid page displayed, execute the page retrieval command used to get a current page.

Module: DFHTPR

Destination: Terminal End User

DFHTP4109 The requested command *command* was not recognized. Check that you have the correct value.

Explanation: Transaction CSPG was entered at the terminal, but what follows cannot be identified as a paging command. *command* represents the first four nonblank characters after CSPG.

System action: Other processing continues.

User response: None.

Module: DFHTPR

Destination: Terminal End User

DFHTP4110 *function* is not valid. Page RETRIEVE function must be A, C, L, N, P, Q, or a number.

Explanation: The page retrieve function represented by *function* is not one of the following: A, C, L, N, P, Q, or a number that may be preceded by a + (plus) or a – (minus) sign, where

Function	Meaning
A	All logical messages destined for and being displayed on that terminal.
C	The current (level) logical message.
L	The last page.
N	The next page.
P	The previous page.
Q	(Query) display the identifier of all logical messages destined for this terminal. If the message is security protected, its identifier is displayed only if the operator identifier and class for the signed-on operator match those in the message. The identifier consists of 1-to-6-digit hexadecimal number, and optionally, a message title.

System action: Other processing continues.

User response: Use a valid page retrieve function.

Module: DFHTPR

Destination: Terminal End User

DFHTP4111 *function* is not valid. Page PURGE function must be A, B, C, H, or R.

Explanation: The page purge function represented by *function* is not A, B, C, H, or R. The functions have the following meanings.

Function	Meaning
A	All logical messages destined for and being displayed on that terminal.
B	The logical message being displayed on that terminal and all logical messages chained to it.
C	The current (level) logical message.
H	All logical messages chained to the base logical message being displayed on that terminal.
R	All logical messages queued for immediate delivery (routed) to the terminal.

System action: Other processing continues.

User response: Use a valid page purge function.

Module: DFHTPR

Destination: Terminal End User

DFHTP4112 The terminal identifier *termid* is unknown or is not supported.

Explanation: The terminal identifier represented by *termid* does not exist or is not supported under basic mapping support (BMS).

System action: Other processing continues.

User response: Use a valid terminal identifier.

Module: DFHTPR

Destination: Terminal End User

DFHTP4113 *date time applid msgno termtype pageno* I/O error on MCR or Page (MODULE NAME: *modname*).

Explanation: While attempting to retrieve a message control record (MCR) or page of a message, a temporary storage I/O error occurred. *msgno* represents the message number in hexadecimal; *termtype* is the terminal type; *pageno* is zero if the error occurred for

the MCR, or is the page number. The message or page noted may be lost for this and/or other terminals.

System action: If pages are being displayed at an autopaging terminal, the next page if any is displayed. Otherwise no action takes place.

User response: None.

Module: DFHTPQ

XMEOUT Parameters: *date, time,applid, msgno, termtype, pageno, modname*

Destination: CSMT

DFHTP4114 You must purge messages from the terminal before issuing a new transaction.

Explanation: While messages were being displayed at the terminal, the operator entered data that was not a paging command, either in error or to initiate a new transaction. However, at least one of the messages on the terminal is marked that the operator must specifically purge it before initiating a new transaction.

System action: Other processing continues.

User response: Purge all messages being displayed at this terminal (T/A), or chain the desired transaction using the chaining command.

Module: DFHTPR

Destination: Terminal End User

DFHTP4115 You must purge the message from your terminal to continue.

Explanation: A transaction is displaying pages at the terminal. Before the operator can continue with the transaction, the message must be purged.

System action: Other processing continues.

User response: Purge the current message (T/C).

Module: DFHTPR

Destination: Terminal End User

DFHTP4116 Your message request cannot be done while another message is being displayed.

Explanation: While viewing a message, the operator entered a request for a specific message (for example, P/1,*xxx*) or requested the message identifiers of messages waiting to be displayed (P/Q). CICS cannot service this request while another message is being displayed. *xxx* is the message identifier of one of the messages waiting to be displayed.

System action: Other processing continues.

User response: If desired, reenter the request when there are no messages being displayed at the terminal.

Module: DFHTPR

Destination: Terminal End User

DFHTP4117 Purge display % after viewing.

Explanation: The operator at a 3270 has requested a display of message identifiers waiting to be displayed. The reply is constructed as one or more pages stored in temporary storage and can be viewed like any page message. % is the page number indicator.

System action: Other processing continues.

User response: Purge the message when viewing is complete.

Module: DFHTPR

Destination: Terminal End User

DFHTP4118 An ID error occurred while retrieving a Message Control Record (MCR) or Message Page. Message *bmsid***, terminal type** *termtype***, page** *pageno***.**

Explanation: CICS was trying to retrieve page *pageno* of a message from temporary storage when an identifier error was received.

Alternatively, if page *pageno* is equal to zero, CICS could have been trying to retrieve a message control record (MCR) when the identifier error was received. The probable cause of the error is that temporary storage was cold started after the message was scheduled or after the message was saved. Otherwise the message had already been purged.

The insert *bmsid* is the BMS logical message identifier, which is a unique hexadecimal identifier used in the generation of a TS key for saving this page or message. The insert *termtype* identifies the terminal type.

System action: The message or page may be lost. Other processing continues.

User response: None.

Module: DFHTPR

Destination: Terminal End User

DFHTP4119 An invalid request on Message Control Record (MCR) or Page Retrieval has occurred. Message *bmsid***, terminal type** *termtype***, page** *pageno***.**

Explanation: CICS was trying to store or retrieve page *pageno* of a message when a temporary storage invalid request occurred. Alternatively, CICS could have been trying to store or retrieve a message control record (MCR) if the page *pageno* equaled zero when the temporary storage invalid error was received.

The message or page may be lost. The probable cause is that temporary storage was not loaded. *bmsid* is the

BMS logical message identifier, which is a unique hexadecimal identifier used in the generation of a TS key for saving this page or message. *termtype* is the terminal type.

System action: Other processing continues.

User response: Ensure that the temporary storage program is loaded.

Module: DFHTPR

Destination: Terminal End User

DFHTP4120 Unable to interpret input. Please try again.

Explanation: The operator entered data that could not be interpreted.

System action: Input is discarded.

User response: Verify that input is valid under existing conditions.

Module: DFHTPR

Destination: Terminal End User

DFHTP4121 An I/O error occurred while retrieving a message control record or message page. Message *bmsid***, terminal type** *termtype*, **page** *pageno*.

Explanation: CICS was trying to retrieve page *pageno* of a message when a temporary storage I/O error occurred. Alternatively, CICS could have been trying to store or retrieve a message control record (MCR) if the page *pageno* equaled zero when the temporary storage I/O error occurred.

The message or page may be lost. *bmsid* is the BMS logical message identifier, which is a unique hexadecimal identifier used in the generation of a TS key for saving this page or message. *termtype* is the terminal type.

System action: If pages are being displayed at an autopaging terminal, the next page, if any, is displayed. Otherwise no action takes place.

User response: None.

Module: DFHTPR

Destination: Terminal End User

DFHTP4122 Requested purge completed successfully.

Explanation: CICS has completed a page purge function requested from the terminal.

System action: Processing continues.

User response: None.

Module: DFHTPR

Destination: Terminal End User

DFHTP4123 Terminal is now Autopaging.

Explanation: The terminal operator has requested that CICS reset a terminal that is temporarily in paging status, to autopaging status.

System action: The rest of the pages in the message are displayed. If there are none left and the message can be purged automatically, it is purged.

User response: None.

Module: DFHTPR

Destination: Terminal End User

DFHTP4124 Page copied from terminal *termid* **(Message number** *msgno*).

Explanation: This message appears in the display of messages waiting to be displayed (P/Q) and identifies a copied page. *msgno* is the message number of the copied page and *termid* is the terminal for which it is queued.

System action: Processing continues.

User response: None.

Module: DFHTPR

Destination: Terminal End User

DFHTP4126 *msgno* **has been copied.**

Explanation: This message is issued in response to a request to copy to another terminal. *msgno* is the message number of the message being displayed.

System action: Processing continues.

User response: None.

Module: DFHTPR

Destination: Terminal End User

DFHTP4127 *nnnn* **must be a number. Please try again.**

Explanation: The characters *nnnn* are not valid. The system expected a decimal value for a page or chain number, or a hexadecimal value for a message number.

System action: Other processing continues.

User response: Reenter the paging command. Use a valid number.

Module: DFHTPR

Destination: Terminal End User

DFHTP4128 *command* **is undefined for page retrieval.**

Explanation: After a page retrieval (PR) session had been started, the operator pressed a PA or PF key for which no PR command had been defined in the SIT.

System action: The command is ignored. The display status bit is not altered.

User response: Ensure that the PR command in question is defined in the SIT.

Module: DFHTPR

Destination: Terminal End User

DFHTP4130 You have used an unrecognized logical device. The valid names are *xxx,yyy***.**

Explanation: A paging command containing an invalid logical device mnemonic was entered. *xxx,yyy,...* indicates the valid logical device mnemonics for the requested logical message.

System action: Input is discarded and other processing continues.

User response: Reenter the paging command with a logical device mnemonic chosen from those listed in the message.

Module: DFHTPR

Destination: Terminal End User

DFHTP4131 Requested page cannot be copied to that terminal.

Explanation: The operator has tried to copy a page that refers to an outboard format

- To a terminal that does not support outboard formats, or
- To a terminal that does support outboard formats, but which has a different page width or a smaller page depth than the source terminal.

System action: The paging request is ignored.

User response: Carry out whichever one of the following is appropriate

- Copy the offending page to a terminal that supports outboard formatting
- Make the referenced format nonoutboard
- Copy the offending page to a terminal that does support outboard formatting and which has a page size the same as that of the source terminal.

Module: DFHTPR

Destination: Terminal End User

DFHTP4132 No pages have been built for this partition.

Explanation: This an information message issued during a page retrieval session. It appears in a screen partition for which no pages have been built.

System action: Processing continues.

User response: None, unless a display was expected in the affected partition. In this case, check for an operator or application error.

Module: DFHTPR

Destination: Terminal End User

DFHTP4133 *date time applid bmsid termtype pageno* **ID error on MCR or page.**

Explanation: CICS was trying to retrieve page *pageno* of a message when an identifier error was received. Alternatively, CICS could have been trying retrieve a message control record (MCR) if the page *pageno* equaled zero when the identifier error was received. The message or page may be lost.

The probable cause is that temporary storage was cold-started after the message was scheduled or saved, or the message has already been purged.

bmsid is the BMS logical message identifier, which is a unique hexadecimal identifier used in the generation of a TS key for saving this page/message. *termtype* is the terminal type.

System action: Other processing continues.

User response: None.

Module: DFHTPQ

XMEOUT Parameters: *date, time,applid, bmsid, termtype, pageno*

Destination: CSMT

DFHTP4134 *date time applid bmsid termtype pageno* **Invalid request on MCR or page.**

Explanation: CICS was trying to store or retrieve page *pageno* of a message when a temporary storage invalid request error occurred. Alternatively, CICS could have been trying to store or retrieve a message control record (MCR) if the page *pageno* equaled zero when the temporary storage invalid request error occurred. The message or page may be lost.

The probable cause is that temporary storage was not loaded.

bmsid is the BMS logical message identifier, which is a unique hexadecimal identifier used in the generation of a TS key for saving this page/message. *termtype* is the terminal type.

System action: Other processing continues.

User response: Ensure that the temporary storage program is loaded.

Module: DFHTPQ

XMEOUT Parameters: *date, time,applid, bmsid, termtype, pageno*

Destination: CSMT

DFHTP4150 *date time applid* **ID error on MCR.**

Explanation: During processing of a delayed delivery message a temporary storage identification error occurred. The message is lost for all destination terminals. Temporary storage was probably cold started after the message was originally scheduled.

System action: Other processing continues.

User response: None.

Module: DFHTPS

XMEOUT Parameters: *date, time,applid*

Destination: CSMT

DFHTP4151 *date time applid* **I/O error on MCR.**

Explanation: During processing of a delayed delivery message a temporary storage I/O error occurred. The message is lost for all destination terminals.

System action: Other processing continues.

User response: None.

Module: DFHTPS

XMEOUT Parameters: *date, time,applid*

Destination: CSMT

DFHTP4152 *date time applid* **Invalid request on MCR.**

Explanation: During processing of a delayed delivery message, a temporary storage invalid request error occurred. The message is lost for all destination terminals. The system was probably initialized without temporary storage.

System action: Other processing continues.

User response: Ensure that the system is initialized with temporary storage.

Module: DFHTPS

XMEOUT Parameters: *date, time,applid*

Destination: CSMT

DFHTP4160 *date time applid* **Message** *msgno* **purged as undeliverable from** *nnnn* **terminal(s).**

Explanation: The message numbered *msgno* has been waiting for display at a terminal, but *nnnn* of these terminals are unable to display the message because they are out of service. This message is sent to the master terminal operator.

System action: To avoid affecting system performance, messages waiting longer than a time specified by the installation are purged.

User response: None.

Module: DFHTPQ

XMEOUT Parameters: *date, time,applid, msgno, nnnn*

Destination: CSMT

DFHTP4161 **Message** *msgno* **was not delivered. It was purged from terminal(s)** *termid***. Message title was** *title***.**

Explanation: The message numbered *msgno* has been purged because it was not delivered within the system-defined time limit.

title is the title of message *msgno* and appears in this message only if one exists. *termid* is the terminal from which the message was purged.

System action: The message is purged from the system. No further attempt is made to deliver the message.

User response: None.

Module: DFHTPQ

Destination: Terminal End User

DFHTP4162 *date time applid nnnn* **BMS system messages purged as undeliverable from error notification terminal.**

Explanation: Basic mapping support (BMS) system messages (for example, DFHTP4161) have been waiting to be displayed at the error notification terminal, but the terminal is unable to display them because its status is not consistent with their status, or because traffic is too heavy.

nnnn is the number of BMS system messages purged and *termid* is the error notification terminal's identifier.

System action: To avoid affecting system performance, messages waiting longer than a time specified by the installation, are purged.

User response: Either alter the status of the terminal to allow messages to be displayed or increase purge delay time at CICS system initialization.

Module: DFHTPQ

XMEOUT Parameters: *date, time,applid, nnnn*

Destination: CSMT

DFHTP4164 *date time applid termid* **cannot accept message DFHTP4161. It is undefined or does not support paging.**

Explanation: *termid* is the identifier of a terminal specified to receive notification if a message could not be delivered. However, *termid* is not now in the TCT or is not defined as a terminal supported by BMS. This message is followed by DFHTP4161, which contains the error notification.

System action: Other processing continues.

User response: Notify terminal *termid* of the contents of message DFHTP4161, which is issued following this message.

Module: DFHTPQ

XMEOUT Parameters: *date, time,applid, termid*

Destination: CSMT

DFHTP4165 Undeliverable messages are being purged. The terminal is available for use.

Explanation: This message is sent to destination CSMT. It is also sent to the originating terminal if transaction CSPQ is entered from the terminal. Program DFHTPQ has been time-initiated to purge any messages that are considered undeliverable.

System action: A non-terminal task is initiated to purge undeliverable messages.

User response: None. The message is displayed at the terminal to indicate that the terminal is available for use.

Module: DFHTPQ

Destination: Terminal End User

DFHTP4166 *date time applid* **BMS has received an error return code** *retcode* **from CICS macro** *{TS PURGE | BMS TEXTBLD | BMS PAGEOUT | TS PUT}***.**

Explanation: BMS received an error return code after issuing a CICS system macro request. *retcode* is the return code and *macro* is the macro request.

System action: Message DFHME0116 should be produced containing the symptom string for this problem.

User response: You need further assistance from IBM to resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHTPQ

XMEOUT Parameters: *date, time,applid, retcode, {1=TS PURGE,2=BMS TEXTBLD, 3=BMS PAGEOUT, 4=TS PUT}*

Destination: CSMT

DFHTP4170 *date time applid* **Request from system** *sysid* **to route message number** *msgno* **to terminal** *termid* **was not executed.**

Explanation: BMS received a request from system *sysid* to route message *msgno* to terminal *termid*. The request could not be executed.

System action: Processing continues.

User response: Ensure that the resource definitions relating to the terminal in the two systems are consistent.

Module: DFHTPS

XMEOUT Parameters: *date, time,applid, sysid, msgno, termid*

Destination: CSMT

DFHTP4171 *date time applid* **Request from system** *sysid* **to route message number** *msgno* **to terminal** *termid* **was not executed. Terminal not valid.**

Explanation: BMS received a request from system *sysid* to route message *msgno* to terminal *termid*. The request could not be executed because terminal *termid* is not defined on this system.

System action: Processing continues.

User response: Ensure that the resource definitions relating to the terminal in the two systems are consistent.

Module: DFHTPS

XMEOUT Parameters: *date, time,applid, sysid, msgno, termid*

Destination: CSMT

DFHTP4172 *date time applid* **Request from system** *sysid* **to route message number** *msgno* **to terminal** *termid* **was not executed. Terminal not supported by BMS.**

Explanation: BMS received a request from system *sysid* to route message *msgno* to terminal *termid*. The request could not be executed because terminal *termid* is of a type not supported by BMS.

System action: Processing continues.

User response: Ensure that the resource definitions relating to the terminal in the two systems are consistent.

Module: DFHTPS

XMEOUT Parameters: *date, time,applid, sysid, msgno, termid*

Destination: CSMT

DFHTP4173 *date time applid* **Request from system** *sysid* **to route message number** *msgno* **to terminal** *termid* **was not executed. Invalid LDC specified.**

Explanation: BMS has received a request from system *sysid* to route message *msgno* to terminal *termid*. The request could not be executed because the LDC specification was invalid.

System action: Processing continues.

User response: Ensure that the resource definitions relating to the terminal in the two systems are consistent.

Module: DFHTPS

XMEOUT Parameters: *date, time,applid, sysid, msgno, termid*

Destination: CSMT

DFHTP4174 *date time applid* **Message routing has failed for terminal** *termid***. The termid was invalid or could not be located.**

Explanation: BMS has received a request to route a message to terminal *termid*. The request could not be executed because *termid* is invalid or could not be located.

This message is produced if an attempt is made to route to some of the terminals for which CICS supplies default or sample definitions, perhaps by using the ALL option on CMSG. An example of this is the default 3270 bridge template terminal CBRF, which fails for routing because it is defined with REMOTESYSTEM(CBR), for which no definition is supplied.

System action: Processing continues.

User response: There are several possible courses of action, depending on the cause of the message.

- Remove or correct the terminal definition.
- Remove the terminal from the routing list.
- Ignore the message if the terminal is a sample or default definition.

Module: DFHTPS

XMEOUT Parameters: *date, time,applid, termid*

Destination: CSMT

DFHTP4180 *date time applid* **Terminal** *termid* **specified as error terminal for message** *msgno* **from system** *sysid* **invalid and ignored.**

Explanation: BMS has received a request from system *sysid* to route message *msgno*, specifying terminal *termid* to be notified in the event of the message not being delivered. Terminal *termid* is not defined in the terminal control table.

System action: Processing continues.

User response: Ensure that the resource definitions relating to the terminal in the two systems are consistent.

Module: DFHTPS

XMEOUT Parameters: *date, time,applid, termid, msgno, sysid*

Destination: CSMT

DFHTP4190 Please enter your data again in the partition containing the cursor.

Explanation: The terminal operator entered data from a partition other than the expected input partition. The expected input partition is activated (that is, the cursor is moved into it), and the terminal operator should reenter data in this partition.

System action: Processing continues.

User response: Ensure that the terminal operator enters data in the correct partition.

Module: DFHPHP

Destination: Terminal End User

DFHTRnnnn messages

DFHTR0001 *applid* **An abend (code** *abcode***) has occurred at offset** *X'offset'* **in module** *modname***.**

Explanation: An abnormal end (abend) or program check has occurred in module *modname*. This implies that there may be an error in CICS code.

Alternatively, unexpected data has been input, or storage has been overwritten.

The code *abcode* is a 3-digit hexadecimal MVS code (if applicable), followed by a 4-digit alphanumeric CICS code. The MVS code is a system completion code (for example, 0C1 or D37). If an MVS code is not applicable, this field is filled with three hyphens. The CICS code is an abend code or a number referring to a CICS message (for example, AKEA is a CICS abend code; 1310 refers to message DFHTS1310).

System action: An exception entry is made in the trace table. A system dump is taken, unless you have specifically suppressed dumps in the dump table.

CICS continues unless you have specified in the dump table that CICS should terminate.

Message DFHME0116 should be produced containing the symptom string for this problem.

User response: If CICS is still running, it is necessary

to decide whether to terminate CICS.

Look up the MVS code, if there is one, in the relevant MVS codes manual which is detailed in the book list in the front of this manual.

Next, look up the CICS alphanumeric code in this manual. This tells you, for example, whether the error was a program check, an abend, or a runaway, and may give you some guidance concerning user response.

If module *modname* is not crucial to the running of your CICS system, you may decide to continue to run and bring CICS down at a convenient time to resolve the problem.

If you cannot run without the full use of module *modname* you should bring CICS down in a controlled shutdown.

You need further assistance from IBM to resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHTRSR, DFHTRPT, DFHTRDM , DFHTRFT

XMEOUT Parameters: *applid, abcode,X'offset', modname*

Destination: Console

DFHTR0002 *applid* **A severe error (code** *X'code'***) has occurred in module** *modname***.**

Explanation: An error has been detected in module *modname*. The code X'*code* is the exception trace point id which uniquely identifies what the error is and where the error was detected. For further information about CICS exception trace entries, refer to the *CICS Problem Determination Guide*.

System action: An exception entry (code X'*code*) is made in the trace table. A system dump is taken, unless you have specifically suppressed dumps in the dump table.

CICS continues unless you have specified in the dump table that CICS should terminate. If appropriate, an error return code is sent to the caller of this domain. In this case, CICS could be terminated by the caller (for example, the domain manager, DFHDMDM). A message is issued to this effect.

Message DFHME0116 should be produced containing the symptom string for this problem.

User response: There may be an error in CICS code. The severity of its impact depends on the importance of the function being executed at the time of the error.

CICS may not have been terminated.

If the message occurs once and module *modname* is not crucial to the running of your CICS system, you may decide to continue to run and bring CICS down at a convenient time to resolve the problem.

If the message recurs or if you cannot run without the full use of module *modname* you should bring CICS down in a controlled shutdown.

You need further assistance from IBM to resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHTRSR

XMEOUT Parameters: *applid, X'code',modname*

Destination: Console

DFHTR0004 *applid* **A possible loop has been detected at offset** *X'offset'* **in module** *modname***.**

Explanation: A CICS function is taking more time to process than CICS expects. A possible loop has been detected in module *modname* at offset X'*offset*. This is the offset of the instruction which was executing at the time the error was detected.

System action: An exception entry is made in the trace table. A system dump is taken, unless you have specifically suppressed dumps in the dump table.

CICS continues unless you have specified in the dump table that CICS should terminate.

Message DFHME0116 should be produced containing the symptom string for this problem.

User response: If CICS has not been terminated, it is necessary to decide whether the problem is serious enough to bring CICS down.

Since some CICS functions can use a lot of processor time, this message may have been caused by a long-running function. So there may not be an error here. Usually, CICS purges a CICS function which exceeds the runaway task time interval which you have specified in the SIT (this is the ICVR which is measured in milliseconds). This means that module *modname* is terminated and CICS continues.

But if you have declared ICVR=0 in the SIT and you consider that module *modname* has gone into a loop, you have to terminate CICS in order to terminate the runaway function.

If CICS has terminated module *modname* and you consider that it was not a runaway, you should increase the ICVR time interval in the SIT. You have to bring CICS down at a suitable time to do this permanently. But you can change the ICVR time interval temporarily online, using the CEMT transaction.

If raising the ICVR time does not solve the problem, you will need further assistance from IBM. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHTRSR, DFHTRPT, DFHTRDM, DFHTRFT

XMEOUT Parameters: *applid, X'offset', modname*

Destination: Console

DFHTR0101 STORAGE FOR INTERNAL TRACE TABLE NOT AVAILABLE -TRACE INOPERATIVE.

Explanation: During CICS initialization, there was insufficient storage for even the minimum allowable internal trace table size (16KB).

System action: CICS terminates with a system dump.

User response: The failure to get even 16KB from MVS at this early stage of initialization almost certainly means that other areas of CICS and other system functions will not be able to acquire the storage they require to operate, so the system is unlikely to initialize completely. A possible solution is to increase the value for the REGION keyword on the EXEC statement for the CICS job.

Module: DFHTRDM

Destination: Console

DFHTR0102 REQUESTED TRACE TABLE SIZE NOT AVAILABLE.

Explanation: CICS issues a variable-type GETMAIN to MVS for the internal trace table storage. This message indicates that the upper limit specified (on the TRTABSZ keyword) was not available, but that at least the lower limit of 16K was obtained.

Message DFHTR0103 which follows this message gives the actual size acquired.

System action: CICS continues with an internal trace table of the size given by message DFHTR0103.

User response: There are three possible courses of action
- Allow CICS to run with the decreased table size if this is thought to be adequate.
- Terminate the system and reinitialize after increasing the region size available to CICS.
- Once the system is initialized, use CETR to increase the table size to the required value.

Module: DFHTRDM

Destination: Console

DFHTR0103 TRACE TABLE SIZE IS *nn*K.

Explanation: The internal trace table acquired during CICS initialization has a table size *nn*KB.

This is either the same as that specified on the TRTABSZ keyword of the SIT or message DFHTR0101 or DFHTR0102 has preceded this on the console.

System action: CICS continues.

User response: None.

Module: DFHTRDM

Destination: Console

DFHTR0104 *applid* **No buffer storage available for auxiliary trace data set. Auxiliary trace is inoperative.**

Explanation: An attempt to start auxiliary trace failed because there was insufficient storage available from MVS for the 4KB output buffer.

System action: A CICS system dump with dump code TR0104 is taken. CICS then continues with auxiliary trace inactive.

User response: Determine why so little MVS storage above 16MB is available and retry if possible.

Module: DFHTRSR

XMEOUT Parameter: *applid*

Destination: Console

DFHTR0105 AUXILIARY TRACE DATA SET *dataset* **COULD NOT BE OPENED - AUXILIARY TRACE INOPERATIVE.**

Explanation: An attempt to start auxiliary trace or to switch auxiliary trace extents has failed because the request to BSAM to open data set *dataset* failed.

System action: There are two cases
- If the error occurs after an explicit request to start auxiliary trace (as opposed to switching extents), a CICS system dump with dump code TR0105 is taken. CICS then continues with auxiliary trace inactive.
- If the error occurs when auxiliary trace is already active, that is, an explicit switch request when auxiliary trace starts or an end-of-extent with autoswitching active, an SDUMP with dump code KERNDUMP is taken. This type of dump is not subject to suppression or modification by use of the dump table.

User response: Check that the DD statement for data set *dataset* is present.

If it is, format the system dump and examine the TR domain information. The DCB for the auxiliary trace data set should be present. Use this to determine the reason for the open failure.

Module: DFHTRSR, DFHTRSU

Destination: Console

DFHTR0106 *applid* **DFHTRAO could not be loaded. Auxiliary trace is inoperative.**

Explanation: An attempt to start auxiliary trace failed because the CICS module, DFHTRAO, which is used to write to the auxiliary trace data set, could not be loaded.

System action: The loader domain (LD) will have issued messages and dumps as necessary. CICS continues with auxiliary trace inactive.

User response: Refer to the associated loader domain messages for further information and guidance.

Module: DFHTRSR

XMEOUT Parameter: *applid*

Destination: Console

DFHTR0107 ABEND *X'abcode'* ON AUXILIARY TRACE DATA SET *dataset* - AUXILIARY TRACE STOPPED.

Explanation: The DCB abend exit for named auxiliary trace data set *dataset* was driven after a request to BSAM.

The 3-digit abend code is indicated as *X'abcode*

System action: CICS continues with auxiliary trace inactive.

User response: Refer to the *z/OS MVS Programming: Sysplex Services Guide* manual for an explanation of the abend code, *X'abcode*.

Module: DFHTRAO

Destination: Console

DFHTR0108 I/O ERROR ON AUXILIARY TRACE DATA SET *dataset* - AUXILIARY TRACE STOPPED.

Explanation: The SYNAD exit for the auxiliary trace data set *dataset* was driven after a request to BSAM.

System action: CICS will continue with auxiliary trace inactive.

User response: Use this message and any BSAM messages to determine the source of the error.

Module: DFHTRAO

Destination: Console

DFHTR0109 AUXILIARY TRACE DATA SET *dataset* FULL -AUXILIARY TRACE HAS BEEN STOPPED.

Explanation: The auxiliary trace data set *dataset* is full. Auxiliary trace has been stopped because autoswitch is not active.

System action: CICS continues with auxiliary trace inactive.

User response: The auxiliary trace data set *dataset* can now be processed by the print routine DFHTU670.

Module: DFHTRSU

Destination: Console

DFHTR0110 AUXILIARY TRACE DATA SET *dataset1* FULL - SWITCHING TO *dataset2*.

Explanation: The auxiliary trace data set *dataset1* is full. Auxiliary trace is continuing on data set *dataset2* because autoswitching was requested.

System action: CICS continues with auxiliary trace active on the data set *dataset2*.

User response: Process the full data set if required.

Module: DFHTRSU

Destination: Console

DFHTR0111 *applid* Unable to acquire storage for GTF buffer - GTF trace inoperative.

Explanation: An attempt to start CICS tracing to the MVS Generalized Trace Facility (GTF) failed because there was insufficient storage available from MVS for the 256-byte buffer required.

This message can be issued by DFHTRDM during CICS initialization if GTFTR=ON is specified on the SIT or start-up overrides, or by DFHTRSU if the request to start GTF was made after CICS was up and running.

System action: CICS continues with GTF tracing inactive.

User response: The failure to acquire even 256 bytes of storage indicates that the CICS region is probably in a stall condition. This can only be relieved by removing some of the users of MVS storage or by restarting CICS, possibly with a larger region size.

Module: DFHTRDM, DFHTRSU

XMEOUT Parameter: *applid*

Destination: Console

DFHTR0112 *applid* Bad data passed for tracing to module *modname*.

Explanation: Some data passed to the trace (TR) domain for addition to the internal trace table, auxiliary trace data set or GTF trace caused a program check when an attempt was made to access it.

This could either be as a result of a request made by CICS system code or a request made by a user program through the API or XPI.

If transaction isolation is active, this message can be issued if a transaction passes another transaction's storage to CICS. A program check occurs when CICS attempts to trace this storage because the storage is fetch protected.

System action: A system dump with dump code TR0112 is taken.

If the message was issued by DFHTRPT the dump contains an exception trace entry (point ID TR0102) that

includes the erroneous parameter list passed to DFHTRPT.

If the message was issued by DFHTRFT the dump contains an exception trace entry (point ID TR0402) that includes the erroneous parameter list passed to DFHTRFT.

Message DFHME0116 should be produced containing the symptom string for this problem.

User response: Examine the interpreted exception trace entry to determine the domain that issued the call and the ID of the entry. Then look at the specified addresses and lengths in the data*n* fields to see if they contain reasonable values. The fault is in the module that set up these fields for the trace call.

If transaction isolation is active, examine the calling domain's parameter list, data2, for storage that belongs to another transaction. Correct the offending application program. It should not be passing another transaction's storage. Alternatively, alter the definition of the application so that it can validly access another transaction's storage. See the *CICS Resource Definition Guide* for more information on how to alter the definition.

Module: DFHTRPT, DFHTRFT

XMEOUT Parameters: *applid, modname*

Destination: Console

DFHTR0113 *applid* **Auxiliary trace is being started on data set** *dataset***.**

Explanation: A request to start auxiliary trace has been successfully processed. The trace records are being written to data set *dataset*.

System action: CICS continues with auxiliary trace active.

User response: None.

Module: DFHTRSR

XMEOUT Parameters: *applid, dataset*

Destination: Console

DFHTR0114 AN ABEND HAS OCCURRED DURING INITIALIZATION OF TRACE IN MODULE *modname***.**

Explanation: Module *modname*'s recovery routine received control during pre-initialization of the trace (TR) domain. This indicates that a program check has occurred in module *modname*.

There are three possible causes of this condition.
1. The module has been overwritten in main storage.
2. The module is at an incompatible level with the rest of the CICS modules.
3. There is an error in the module.

System action: A system dump with dump code KERNDUMP is taken.

User response: Inform the system programmer.

There may be an error in CICS code. The severity of its impact will depend on the importance of the function being executed at the time of the error.

CICS may not have been terminated.

If the message occurs once and module *modname* is not crucial to the running of your CICS system, you may decide to continue to run and bring CICS down at a convenient time to resolve the problem.

If the message recurs or if you cannot run without the full use of module *modname* you should bring CICS down in a controlled shutdown.

Use the dump to determine the cause of the condition.

Module: DFHTRDM , DFHTRSR

Destination: Console

DFHTR0115 AN ABEND HAS OCCURRED IN THE AUXILIARY TRACE MODULE DFHTRAO.

Explanation: Module DFHTRAO's recovery routine has received control.

This indicates a program check or MVS abend has occurred in DFHTRAO.

There are three possible causes of this condition
- DFHTRAO has been overwritten in main storage
- DFHTRAO is at an incompatible level with the rest of the CICS modules
- There is an error in DFHTRAO.

System action: A system dump with dump code KERNDUMP is taken.

User response: There may be an error in CICS code. The severity of its impact depends on the importance of the function being executed at the time of the error.

CICS may not have been terminated.

If the message occurs once and module DFHTRAO is not crucial to the running of your CICS system, you may decide to continue to run and bring CICS down at a convenient time to resolve the problem.

If the message recurs or if you cannot run without the full use of module DFHTRAO, you should bring CICS down in a controlled shutdown.

Use the dump to determine the cause of the condition.

Module: DFHTRAO

Destination: Console

DFHTR0116 AN ABEND HAS OCCURRED IN THE TRACE SUBROUTINES MODULE DFHTRSU.

Explanation: The recovery routine belonging to the trace domain module DFHTRSU has received control.

This indicates a program check or MVS abend has occurred in that module.

There are three possible causes of this condition
- DFHTRSU has been overwritten in main storage.
- DFHTRSU is at an incompatible level with the rest of the CICS modules.
- There is an error in DFHTRSU.

System action: A system dump with dump code KERNDUMP is taken.

User response: There may be an error in CICS code. The severity of its impact depends on the importance of the function being executed at the time of the error.

CICS may not have been terminated.

If the message occurs once and module DFHTRSU is not crucial to the running of your CICS system, you may decide to continue to run and bring CICS down at a convenient time to resolve the problem.

If the message recurs or if you cannot run without the full use of module DFHTRSU, bring CICS down in a controlled shutdown.

Use the dump to determine the cause of the condition.

Module: DFHTRSU

Destination: Console

DFHTR0117 *applid* **Auxiliary trace on data set** *dataset* **has been stopped.**

Explanation: An operator or application program request, to stop CICS tracing to the auxiliary trace data set *dataset*, has been successfully processed.

System action: CICS continues with auxiliary trace inactive.

User response: The auxiliary trace data set *dataset* can now be processed by the print routine DFHTU670.

Module: DFHTRSR

XMEOUT Parameters: *applid, dataset*

Destination: Console

DFHTR0118 *applid* **Auxiliary trace is being switched from** *dataset1* **to** *dataset2***.**

Explanation: An operator or application program request to switch extents on the auxiliary trace data set while auxiliary trace is active is being processed.

System action: CICS stops tracing on the first named data set *dataset1*, and resumes tracing on the second named data set *dataset2*.

User response: The first named auxiliary trace data set *dataset1* can now be processed by the print routine DFHTU670.

Module: DFHTRSR

XMEOUT Parameters: *applid, dataset1, dataset2*

Destination: Console

DFHTR0119 *applid* **No DCB storage available for auxiliary trace data set. Auxiliary trace is inoperative.**

Explanation: An attempt to start auxiliary trace failed because there was insufficient storage available from MVS for the auxiliary trace data set DCB.

System action: A CICS system dump with dump code TR0119 is taken. CICS then continues with auxiliary trace inactive.

User response: Determine why so little MVS storage below 16 MB is available and retry if possible.

Module: DFHTRSR

XMEOUT Parameter: *applid*

Destination: Console

DFHTR0122 STORAGE FOR INTERNAL TRACE TABLE NOT AVAILABLE -TRACE INOPERATIVE.

Explanation: During CICS initialization, there was insufficient storage available to allocate even the minimum size (1 MB) of above the bar storage for the internal trace table.

System action: CICS terminates with a system dump.

User response: The failure to allocate even 1 MB of above the bar storage at this stage of initialization almost certainly means that other areas of CICS and other system functions will not be able to acquire the storage they require to operate, so the system is unlikely to initialize completely. A possible solution is to increase the value of the MEMLIMIT parameter.

Module: DFHTRDM

Destination: Console

DFHTR0123 REQUESTED TRACE TABLE SIZE NOT AVAILABLE.

Explanation: CICS issues a GETSTOR request to MVS for the internal trace table storage. This message indicates that there is insufficient above the bar storage available to allocate the size of trace table specified on the TRTABSZ paremeter, but a subsequent request for the minimum possible size of 1 MB succeeded.

Message DFHTR0103 which follows this message gives the actual size of the trace table that will be used.

System action: CICS continues with an internal trace table of the size given by message DFHTR0103.

User response: There are three possible courses of action
- Allow CICS to run with the decreased table size if this is thought to be adequate.
- Terminate the system and reinitialize after increasing the MEMLIMIT parameter for 64-bit storage available to CICS.
- Once the system is initialized, use CETR to increase the table size to the required value.

Module: DFHTRDM

Destination: Console

DFHTR0124 *applid* **UNABLE TO BUILD TRACE CELL POOL IN 64-BIT STORAGE.**

Explanation: An attempt to allocate the cell pool for trace failed because there was insufficient 64-bit storage available. This cell pool is used to allocate working storage for the global trap trace exit , DFHTRAP, and the buffer for GTF trace. Therefore, neither of these facilities can be used.

System action: CICS continues but DFHTRAP cannot be activated and GTF trace is disabled.

User response: There are two possible courses of action 1. If neither DFHTRAP nor GTF trace are required, allow CICS to continue 2. If DFHTRAP or GTF trace is required, increase the MEMLIMIT parameter to allow CICS access to more 64-bit storage. Then restart CICS.

Module: DFHTRDM

Destination: Console

DFHTR1000 *applid* **CICS abend requested by global trap exit DFHTRAP in module** *modname***.**

Explanation: The field engineering global trap exit program (DFHTRAP) requested termination of CICS.

System action: CICS disables the trap exit so that it will not be reentered, and terminates CICS.

User response: Determine why DFHTRAP has requested system termination and act accordingly. Use the global trap exit only in consultation with IBM support.

Module: DFHTRPT, DFHTRFT

XMEOUT Parameters: *applid, modname*

Destination: Console

DFHTR1001 *applid* **Program check occurred within global trap exit - DFHTRAP now marked unusable by module** *modname***.**

Explanation: After making a trace entry, the CICS trace domain (TR) called the field engineering global trap exit program (DFHTRAP). A program check occurred during execution of DFHTRAP.

System action: CICS marks the currently active version of DFHTRAP unusable, and will ignore it on future calls to TR domain. CICS then takes a dump with system dump code TR1001, and continues execution.

User response: Use the dump to find the cause of the program check. To replace the currently active but unusable DFHTRAP by a new version in the CICS program library, issue the following commands in the sequence shown

CSFE DEBUG,TRAP=OFF (to deactivate the current trap)
CEMT SET PROGRAM(DFHTRAP) NEWCOPY (to update the trap disk address known to CICS)
CSFE DEBUG,TRAP=ON (to activate the new version of the trap)

Use the global trap exit only in consultation with IBM support.

Module: DFHTRPT, DFHTRFT

XMEOUT Parameters: *applid, modname*

Destination: Console

DFHTR1002 *applid* **Program DFHTRAP is not available - global trap not activated**

Explanation: CICS could not activate the field engineering global trap exit program, DFHTRAP, during processing of the TRAP=ON SIT keyword or override in CICS initialization. This is almost certainly because DFHTRAP is not present in the program library.

System action: CICS takes a system dump with dump code TR1002 and continues with the global trap not activated.

User response: Ensure that DFHTRAP is defined to RDO and made available in the program library.

Use the global trap exit only in consultation with IBM support.

Module: DFHTRDM

XMEOUT Parameter: *applid*

Destination: Console

DFHTR1003 *applid* **CICS system dump requested by global trap exit DFHTRAP in module** *modname***.**

Explanation: The user-coded global trap exit program (DFHTRAP) has requested a system dump in its return action settings.

System action: CICS takes a system dump with dump code TR1003 and continues with the global trap still active.

User response: Analyze the requested dump.

Use the global trap exit only in consultation with IBM support.

Module: DFHTRPT, DFHTRFT

XMEOUT Parameters: *applid, modname*

Destination: Console

DFHTR1004 *applid* **CICS system dump requested by global trap exit DFHTRAP in module** *modname***. The dump will be taken whilst holding the trace lock.**

Explanation: The user-coded global trap exit program (DFHTRAP) has requested in its return action settings that a system dump is taken while holding the trace lock.

System action: CICS takes a system dump with dump code TR1004 and continues with the global trap still active.

User response: Analyze the requested dump.

Use the global trap exit only in consultation with IBM support.

Module: XMEOUT Parameters: *applid, modname*

Destination: Console

DFHTR2000 INCOMPLETE ENTRY IGNORED.

Explanation: CICS trace entries longer than 256 bytes have to be split into multiple Generalized Trace Facility (GTF) entries because of GTF's length restriction. The CICS entry becomes a header entry followed by one or more continuation entries. This message in the GTF printout indicates that a CICS entry on GTF longer than 256 bytes has not been printed because a new header entry from the same MVS TCB was encountered before all of the continuation entries from a previous split entry were received.

System action: The incomplete entry is ignored.

User response: This situation can arise in one of two ways

- The MVS TCB making the first split trace entry abnormally terminated while writing the continuation entries.

  This results in messages and a system dump during the CICS run.

  Refer to the associated messages for further information and guidance. Use the dump to determine and solve the problem.
- GTF has failed to record one or more of the continuation entries because of an internal error. You need further assistance from IBM to resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHTRPRG

Destination: SYSPRINT

DFHTR2001 INSUFFICIENT STORAGE FOR RECONSTRUCTION BUFFER.

Explanation: A CICS entry longer than 256 bytes has been split into a header record and one or more continuation records on the generalized trace facility (GTF). It cannot be formatted because MVS could not allocate sufficient working storage for a buffer to allow reconstruction of the segmented entry.

System action: The entry is printed in hexadecimal and the print job continues.

User response: Rerun the GTF print job with a larger region size.

Module: DFHTRPRG

Destination: SYSPRINT

DFHTR2002 INVALID ENTRY PASSED FOR FORMATTING.

Explanation: A GTF entry with the CICS format identifier (X'EF) has been passed to the CICS GTF print routine but the data it contains is not part of a valid CICS trace entry.

System action: The invalid entry is printed in hexadecimal and the print job continues.

User response: Examine the entry for clues to its origin.

Module: DFHTRPRG

Destination: SYSPRINT

DFHTR2003 UNEXPECTED CONTINUATION ENTRY ENCOUNTERED.

Explanation: CICS trace entries longer than 256 bytes have to be split into multiple GTF entries because of GTF's length restriction. The CICS entry becomes a header entry followed by one or more continuation entries. This message in the GTF printout indicates that a GTF entry has been passed to the CICS GTF print routine that is not the start of a CICS segmented entry and the entry type is not one for which a continuation is currently expected.

System action: The invalid entry is printed in hexadecimal and the print job continues.

User response: This situation could arise if the header record for a segmented entry is overwritten because of GTF's normal cyclic re-use of space in its data set. In this case the invalid entries would be very close to the start of the printout.

If this is not so, examine the entry for clues to its origin.

Module: DFHTRPRG

Destination: SYSPRINT

DFHTR2004 THE MAXIMUM NUMBER OF BUFFERS (*nn*) HAVE BEEN ALLOCATED. NONE ARE FREE FOR REUSE.

Explanation: A CICS trace entry longer than 256 bytes has been split into a header record and one or more continuation records on the generalized trace facility (GTF). However, it cannot be formatted because the maximum number of buffers allowed for reconstruction of segmented entries for a specific type has been reached. This maximum is currently set to *nn*. The number of buffers for a specific type relates directly to the number of regions or systems writing trace entries to the GTF trace data set. During writing, the segmented entries for some of the different regions or systems could become interleaved in the data set. To ensure that the entries are formatted completely and correctly, it is necessary to have a buffer available for each region or system whose trace entries have become interleaved in this way. For further information on trace types and segmented entries see the section on trace formatting in the *CICS Diagnosis Reference*.

System action: The entry is printed in hexadecimal and the print job continues.

User response: None, but if the situation occurs regularly, contact your IBM Support Center to discuss whether the maximum value set is too low.

Module: DFHTRPRG

Destination: SYSPRINT

DFHTR2005 THE LOAD FAILED FOR LOAD MODULE *modname*. PLACE MODULE IN THE LINK LIST AND TRY AGAIN.

Explanation: The generalized trace facility (GTF) trace formatter tried to load the correct release of trace formatter for the trace entry being processed.

System action: The job continues printing trace entries in hexadecimal only.

User response: Place the named trace formatter load module into the link list and rerun the job. If the named trace formatter is not available, you will need further assistance from IBM. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHTRPRG

Destination: SYSPRINT

DFHTR2006 UNKNOWN ENTRY PASSED FOR FORMATTING.

Explanation: An unknown CICS GTF trace entry has been passed to the CICS GTF print routine. The probable reason for this is that the CICS GTF formatting routine being used is from a previous CICS release and therefore does not recognize entries from the current release.

System action: The unknown entry is printed in hexadecimal and the print job continues.

User response: Examine the entry for clues to its origin. Ensure you are running GTF formatting routine DFHTGxxx where xxx is the current CICS release level.

Module: DFHTRPRG

Destination: SYSPRINT

DFHTR3001 ERROR IN OPENING DFHAXPRT FILE.

Explanation: The auxiliary trace print program DFHTU670 could not open the data set defined to receive the print output.

System action: The print job terminates with a return code of 8.

User response: Ensure that the DD statement for DFHAXPRT is present and correct in the DFHTU670 job.

Module: DFHTRPRA

Destination: Console

DFHTR3002 ERROR IN OPENING DFHAUXT FILE.

Explanation: The auxiliary trace print program DFHTU670 could not open the auxiliary trace data set to be processed.

System action: The print job terminates with a return code of 8.

User response: Ensure that the DD statement for DFHAUXT is present and correct in the DFHTU670 job.

Module: DFHTRPRA

Destination: Console

DFHTR3003 ERROR IN OPENING DFHAXPRM FILE.

Explanation: The auxiliary trace print program DFHTU670 could not open the parameter input data set DFHAXPRM.

System action: The print job terminates with a return code of 8.

User response: Ensure that the DD statement for DFHAXPRM is present and correct in the DFHTU670 job, or specify your input parameters on the PARM keyword of the EXEC statement.

Module: DFHTRPRA

Destination: Console

DFHTR3010 ERROR IN TRACE DATA - ENTRIES MAY HAVE BEEN LOST.

Explanation: The trace block being formatted contains invalid length and/or pointer fields. This can happen if the trace table is accidentally overwritten.

System action: The trace formatting code scans the block to try and find valid entries. Any that are found are printed. The rest of the data is ignored.

User response: Try and determine what caused the overwriting of the internal trace table.

The trace entries immediately before and after this message in the print out should be viewed with suspicion. They may contain incorrect data, or there may be one or more entries missing altogether at this point.

Module: DFHTRFPB

Destination: SYSPRINT

DFHTR4001 Pos *position*, Blank record.

Explanation: The trace selection parameters for either the auxiliary trace print program DFHTU670, the system dump print program DFHPD670, or the GTF trace print program DFHTR670 are not correctly specified. There were no valid selective trace print parameters found.

System action: The print job terminates with a return code of 8.

User response: Ensure that the DD statement for DFHAXPRM is present and correct in the print job, or specify your input parameters on the PARM keyword of the EXEC statement. A blank line has been found as input on a job control statement. Specify at least one valid selection parameter on this job control statement and rerun the print job. Please refer to the *CICS Operations and Utilities Guide*. for a list of valid trace print selection parameters.

Module: DFHTRFPP

Destination: SYSPRINT

DFHTR4002 Pos *position*, Invalid keyword.

Explanation: The trace selection parameters for either the auxiliary trace print program DFHTU670, the system dump print program DFHPD670, or the GTF trace print program DFHTR670 are not correctly specified. The keyword found in *position* of the control statement is not a valid trace selection parameter or has been specified incorrectly.

System action: The print job terminates with a return code of 8.

User response: Specify a valid selective trace print parameter and rerun the job. Please refer to the *CICS Operations and Utilities Guide* for a list of valid trace print selection parameters. DFHTRFPP

DFHTR4003 Pos *position*, Unexpected end of data.

Explanation: The trace selection parameters for either the auxiliary trace print program DFHTU670, the system dump print program DFHPD670, or the GTF trace print program DFHTR670 are not correctly specified. An unexpected end of data has been encountered.

System action: The print job terminates with a return code of 8.

User response: Ensure that the DD statement for DFHAXPRM is present and correct in the print job, or specify your input parameters on the PARM keyword of the EXEC statement. Specify the trace selection parameters correctly. Refer to the *CICS Operations and Utilities Guide* for further information on how to do this.

Module: DFHTRFPP

Destination: SYSPRINT

DFHTR4004 Pos *position*, Missing parenthesis.

Explanation: The trace selection parameters for either the auxiliary trace print program DFHTU670, the system dump print program DFHPD670, or the GTF trace print program DFHTR670 are not correctly specified. Keywords have been specified which need matching parentheses and one of these is missing.

System action: The print job terminates with a return code of 8.

User response: To specify more than one entry for a selection, you must put the list of entries in parentheses. For example, to select tranids ABRQ, AORD, and MYTR, specify TRANID=(ABRQ,AORD,MYTR). Ensure you have specified matching pairs of parentheses as required.

Module: DFHTRFPP

Destination: SYSPRINT

DFHTR4005 Pos *position*, Null data.

Explanation: The trace selection parameters for either the auxiliary trace print program DFHTU670, the system dump print program DFHPD670, or the GTF trace print program DFHTR670 are not correctly specified. Null data has been found at *position* in the trace selection parameter statement.

System action: The print job terminates with a return code of 8.

User response: Ensure you put valid data in the trace selection parameters. Please refer to the *CICS Operations and Utilities Guide* for guidance on valid trace print selection parameters.

Module: DFHTRFPP

Destination: SYSPRINT

DFHTR4007 Pos *position*, Invalid separator.

Explanation: The trace selection parameters for either the auxiliary trace print program DFHTU670, the system dump print program DFHPD670, or the GTF trace print program DFHTR670 are not correctly specified. An invalid separator has been found at *position*.

System action: The print job terminates with a return code of 8.

User response: You must use commas to separate keywords and entries in a list.

Module: DFHTRFPP

Destination: SYSPRINT

DFHTR4008 Pos *position*, Parameter length invalid.

Explanation: The trace selection parameters for the auxiliary trace print program DFHTU670 the system dump print program DFHPD670, or the GTF trace print program DFHTR670 are not correctly specified. A trace selection parameter has been specified with an incorrect length.

System action: The print job terminates with a return code of 8.

User response: Ensure that the length of the specified trace selection parameter is correct.

Module: DFHTRFPP

Destination: SYSPRINT

DFHTR4009 Pos *position*, Parameter value invalid.

Explanation: The trace selection parameters for either the auxiliary trace print program DFHTU670, the system dump print program DFHPD670, or the GTF trace print program DFHTR670 are not correctly specified. A trace selection parameter has been specified with an invalid value at *position*.

System action: The print job terminates with a return code of 8.

User response: Correct the incorrect parameter value. Refer to the *CICS Operations and Utilities Guide* for guidance on valid trace print selection parameters.

Module: DFHTRFPP

Destination: SYSPRINT

DFHTR4010 Pos *position*, Parameter range invalid.

Explanation: The trace selection parameters for either the auxiliary trace print program DFHTU670, the system dump print program DFHPD670, or the GTF trace print program DFHTR670 are not correctly specified. A value has been specified at *postion* which is outside the valid range for this parameter.

System action: The print job terminates with a return code of 8.

User response: Ensure that the value specified is in the correct range for this selection parameter. Refer to the *CICS Operations and Utilities Guide* for guidance on valid trace print selection parameters.

Module: DFHTRFPP

Destination: SYSPRINT

DFHTR4011 Pos *position*, Invalid page size range.

Explanation: The trace selection parameters for either the auxiliary trace print program DFHTU670, or the system dump print program DFHPD670 are not correctly specified. The value specified at *position* for the PAGESIZE=(value) selection parameter is outside the valid range allowed.

System action: The print job terminates with a return code of 8.

User response: Specify a value for PAGESIZE=(value) in the range 20 through 9999 lines per page.

Module: DFHTRFPP

Destination: SYSPRINT

DFHTR4012 Pos *position*, Invalid combination of FULL, ABBREV and SHORT trace.

Explanation: The trace selection parameters for either the auxiliary trace print program DFHTU670, the system dump print program DFHPD670, or the GTF

trace print program DFHTR670 are not correctly specified. Two or more of the selection parameters ABBREV, SHORT, or FULL have been specified together. These parameters are mutually exclusive.

System action: The print job terminates with a return code of 8.

User response: Specify either ABBREV or SHORT or FULL and rerun the print job.

Module: DFHTRFPP

Destination: SYSPRINT

DFHTR5001 THE LOAD FOR A FEATURE PROGRAM HAS FAILED.

Explanation: The load for a feature formatting program has failed. This can happen if the program text is not included in one of the named data sets for the job.

System action: The trace formatting continues without feature tracing.

User response: Try and determine what caused the load error.

Module: DFHTRFFE

Destination: SYSPRINT

DFHTR5002 FEATURE FORMATTING PROGRAM HAS FAILED.

Explanation: A feature formatting program has failed.

System action: The trace formatting continues without feature tracing.

User response: Refer to the documentation provided with your feature.

Module: DFHTRFFE

Destination: SYSPRINT

DFHTSnnnn messages

DFHTS0001 *applid* **An abend (code** *aaa/bbbb***) has occurred at offset** *X'offset'* **in module** *modname***.**

Explanation: An abnormal end (abend) or program check has occurred in module *modname*. This implies that there may be an error in the CICS code. Alternatively, unexpected data has been input, or storage has been overwritten.

The code *aaa/bbbb* is a 3-digit hexadecimal MVS code (if applicable), followed by a 4-digit alphanumeric CICS code. The MVS code is a system completion code (for example, 0C1 or D37). If an MVS code is not applicable, this field is filled with three hyphens. The CICS code is an abend code or a number referring to a CICS message (for example, AKEA is a CICS abend code; 1310 refers to message DFHTS1310).

System action: An exception entry is made in the trace table. A system dump is taken, unless you have specifically suppressed dumps in the dump table.

CICS continues unless you have specified in the dump table that CICS should terminate. If appropriate, an error return code is sent to the caller of this domain. In this case CICS could be terminated by the caller (for example, the domain manager, DFHDMDM). A message is issued to this effect.

Message DFHME0116 should be produced containing the symptom string for this problem.

User response: Notify the system programmer. If CICS is still running, it is necessary to decide whether to terminate CICS.

Look up the MVS code, if there is one, in the relevant MVS codes manual.

Next, look up the CICS alphanumeric code. This tells you, for example, whether the error was a program check, an abend, or a runaway, and may give you some guidance concerning user response.

If module *modname* is not crucial to the running of your CICS system, you may decide to continue to run and bring CICS down at a convenient time to resolve the problem.

If you cannot run without the full use of module *modname* you should bring CICS down in a controlled shutdown.

You need further assistance from IBM to resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHTSAM, DFHTSBR, DFHTSDM, DFHTSPT, DFHTSQR, DFHTSRM, DFHTSSH, DFHTSSR, DFHTSST, DFHTSWQ.

XMEOUT Parameters: *applid, aaa/bbbb, X'offset', modname*

Destination: Console

DFHTS0002 *applid* **A severe error (code** *X'code'***) has occurred in module** *modname***.**

Explanation: An error has been detected in module *modname*. The code X'*code* is the exception trace point ID which uniquely identifies what the error is and where the error was detected.

System action: An exception entry (code X'*code* in the

message) is made in the trace table. A system dump is taken, unless you have specifically suppressed dumps in the dump table.

CICS continues unless you have specified in the dump table that CICS should terminate. If appropriate, an error return code is sent to the caller of this domain. In this case, CICS could be terminated by the caller (for example, the domain manager, DFHDMDM). A message is issued to this effect.

Message DFHME0116 should be produced containing the symptom string for this problem.

User response: This indicates a possible error in CICS code. The severity of its impact depends on the importance of the function being executed at the time of the error.

CICS may not have been terminated. If the message occurs once and module *modname* is not crucial to the running of your CICS system, you may decide to continue to run and bring CICS down at a convenient time to resolve the problem.

If the message recurs or if you cannot run without the full use of module *modname*, you should bring CICS down in a controlled shutdown.

You need further assistance from IBM to resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHTSAM, DFHTSBR, DFHTSDM, DFHTSPT, DFHTSQR, DFHTSRM, DFHTSSH, DFHTSSR, DFHTSST, DFHTSWQ.

XMEOUT Parameters: *applid, X'code',modname*

Destination: Console

DFHTS0100I *applid* **Temporary Storage initialization has started.**

Explanation: This is an informational message indicating the start of temporary storage domain initialization.

System action: Initialization continues.

User response: None. You can suppress this message with the system initialization parameter, MSGLVL=0.

Module: DFHTSDM

XMEOUT Parameter: *applid*

Destination: Console

DFHTS0101I *applid* **Temporary Storage initialization has ended.**

Explanation: Temporary storage domain initialization has completed successfully

System action: Initialization continues.

User response: None. You can suppress this message with the system initialization parameter, MSGLVL=0.

Module: DFHTSDM

XMEOUT Parameter: *applid*

Destination: Console

DFHTS0102I *applid* **About to format the temporary storage data set (***numcis* **control intervals).**

Explanation: Temporary storage has been cold-started with a new data set. This message is issued when formatting of the data set commences, and indicates the number *numcis* of control intervals which will be formatted.

System action: CICS continues. Message DFHTS0101 is issued when temporary storage initialization has been completed. Note that formatting can take a significant time if the data set is large.

User response: None. You can suppress this message with the message level system initialization parameter, MSGLVL=0.

Module: DFHTSDM.

XMEOUT Parameters: *applid, numcis*

Destination: Console

DFHTS0103 *applid* **Invalid attempt to switch between a TST and RDO for Temporary Storage. The attempt is ignored.**

Explanation: Temporary storage has detected an implicit attempt to switch between using a TST and RDO for TS queues, but CICS has not been COLD started.

Switching from using a TST to RDO for TS (or vice versa) is permitted only on a COLD or INITIAL start of CICS.

System action: CICS continues. The attempt to switch is ignored. CICS will use a TST (if specified) or RDO models for TS queues, as for the previous CICS run.

User response: You may wish to restart CICS specifying an INITIAL or COLD start in order to complete the switch.

Module: DFHTSAD

XMEOUT Parameter: *applid*

Destination: Console

DFHTS0104 *date time applid terminal userid tranid* **TSMODEL entry for** *tsmodelname* **has been added.**

Explanation: This is an audit log message indicating that temporary storage model *tsmodelname* has been

added to the system using the INSTALL command Where

- *terminal* is the netname or termid of the terminal associated with the transaction issuing the message. If there is no terminal associated with the transaction, the terminal name is suppressed.
- *userid* is the user identifier of the user associated with the transaction issuing the message.
- *tranid* is the transaction issuing the message.

System action: The system continues normally.

User response: None.

Module: DFHTSAD

XMEOUT Parameters: *date, time,applid, terminal, userid, tranid, tsmodelname*

Destination: CSMT

DFHTS0105 *date time applid terminal userid tranid* **TSMODEL entry for** *tsmodelname* **has been replaced.**

Explanation: This is an audit log message indicating that temporary storage model entry *tsmodelname* has been replaced in the system using the INSTALL command. Where

- *terminal* is the netname or termid of the terminal associated with the transaction issuing the message. If there is no terminal associated with the transaction, the terminal name is suppressed.
- *userid* is the user identifier of the user associated with the transaction issuing the message.
- *tranid* is the transaction issuing the message.

System action: The system continues normally.

User response: None.

Module: DFHTSAD

XMEOUT Parameters: *date, time,applid, terminal, userid, tranid, tsmodelname*

Destination: CSMT

DFHTS0106 *date time applid terminal userid tranid* **TSMODEL entry for** *tsmodelname* **has been discarded.**

Explanation: This is an audit log message indicating that temporary storage model *tsmodelname* has been deleted from the system using the DISCARD command Where

- *terminal* is the netname or termid of the terminal associated with the transaction issuing the message. If there is no terminal associated with the transaction, the terminal name is suppressed.
- *userid* is the user identifier of the user associated with the transaction issuing the message.
- *tranid* is the transaction issuing the message.

System action: The system continues normally.

User response: None.

Module: DFHTSAD

XMEOUT Parameters: *date, time,applid, terminal, userid, tranid, tsmodelname*

Destination: CSMT

DFHTS1301 *applid {READ | WRITE}* **Error detected by temporary storage. RPL feedback area is** *X'yyyyy'*.

Explanation: An I/O error has been detected by temporary storage. Either

- A hardware error occurred while a task was accessing the temporary storage data set, or
- VSAM detected a logic error in the request. The most likely cause of this is that the data set was defined incorrectly.

System action: An abend ATSD or ATSU is returned to the application program.

Message DFHME0116 should be produced containing the symptom string for this problem.

User response: Ensure that the definition of the temporary storage data set is correct. For logic errors see the *z/OS DFSMS Macro Instructions for Data Sets* manual for assistance in interpreting RPL feedback codes.

See the *CICS Problem Determination Guide* for more guidance in dealing with temporary storage problems.

Module: DFHTSAM

XMEOUT Parameters: *applid, {1=READ, 2=WRITE}, X'yyyyy'*

Destination: Console

DFHTS1310 *applid* **Temporary storage data set does not match bit map**

Explanation: The temporary storage domain has detected an inconsistency between its control blocks. The inconsistency was detected either during compression of an I/O buffer or by the TS control block checking which is enabled via TS trace level 3.

Possible causes of the inconsistency are

- An incorrect temporary storage data set (DFHTEMP) was used.
- The control interval size (CISIZE) of the temporary storage data set was changed between CICS runs.
- A storage overlay has occurred.
- An internal error has occurred within the TS domain.

System action: CICS is abnormally terminated with a dump.

Message DFHME0116 should be produced containing

the symptom string for this problem.

User response: To determine the cause of the error, check that

- The correct data set was used.
- The CISIZE of DFHTEMP was not altered between CICS runs (if CISIZE **was** altered, temporary storage should have been cold started).

Whatever the cause of the error, temporary storage must now be cold started.

See the *CICS Problem Determination Guide* for more guidance in dealing with temporary storage problems. If an overlay has occurred, you will need further assistance from IBM.

See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHTSAM

XMEOUT Parameter: *applid*

Destination: Console

DFHTS1311 *applid* **Temporary storage data set is full and cannot be extended**

Explanation: The temporary storage data set is full. CICS has failed in an attempt to extend it.

System action: Processing continues.

User response: Consider whether you need to increase the space allocation for the temporary storage data set.

Module: DFHTSAM

XMEOUT Parameter: *applid*

Destination: Console

DFHTS1315 *applid* **The temporary storage data set has exceeded the maximum number of control intervals supported.**

Explanation: During a temporary storage write request, an attempt has been made to add a new control interval to the temporary storage data set. The temporary storage data set already contains the maximum number of supported control intervals and cannot be extended.

System action: Processing continues.

User response: Consider whether you need to increase the control interval size for the temporary storage data set. See the *CICS System Definition Guide* for guidance on defining the temporary storage data set.

Module: DFHTSAM

XMEOUT Parameter: *applid*

Destination: Console

DFHTS1340 *applid* **No DD statement provided for temporary storage data set.**

Explanation: CICS is unable to open the auxiliary temporary storage data set because no DD statement has been provided.

System action: A dump is provided and CICS is terminated.

User response: Correct the error and restart CICS.

Module: DFHTSDM

XMEOUT Parameter: *applid*

Destination: Console

DFHTS1341 *applid* **VSAM error processing SHOWCAT for temporary storage data set.**

Explanation: VSAM has detected an error during SHOWCAT processing for the auxiliary temporary storage data set.

System action: A dump is provided and CICS is terminated.

User response: Correct the error and restart CICS.

Module: DFHTSDM

XMEOUT Parameter: *applid*

Destination: Console

DFHTS1342 *applid* **Invalid VSAM definition for temporary storage data set.**

Explanation: CICS is unable to open the auxiliary temporary storage data set because it is not defined as VSAM ESDS.

System action: A dump is provided and CICS is terminated.

User response: Correct the error and restart CICS.

Module: DFHTSDM

XMEOUT Parameter: *applid*

Destination: Console

DFHTS1362 *applid* **Temporary storage data set not formatted**

Explanation: The auxiliary temporary storage data set is not formatted. It is empty. If initial formatting is necessary, it is performed when temporary storage is cold started.

System action: The temporary storage initialization task is abnormally terminated.

User response: Correct the error and restart CICS.

Module: DFHTSDM

XMEOUT Parameter: *applid*

Destination: Console

DFHTS1363 *applid* **Invalid control record for temporary storage data set**

Explanation: The auxiliary temporary storage data set was not initialized for temporary storage.

System action: The temporary storage initialization task is abnormally terminated.

User response: Correct the error and restart CICS.

Module: DFHTSDM

XMEOUT Parameter: *applid*

Destination: Console

DFHTS1371 *applid* **VSAM error processing SHOWCB for temporary storage data set, RC=***X'retcode'*

Explanation: VSAM has detected an error during SHOWCB processing for the auxiliary temporary storage data set.

System action: The temporary storage initialization task is abnormally terminated.

Message DFHME0116 should be produced containing the symptom string for this problem.

User response: Check the return code in the appropriate VSAM publication.

Module: DFHTSDM

XMEOUT Parameters: *applid, X'retcode'*

Destination: Console

DFHTS1372 *applid* **VSAM error processing OPEN for temporary storage data set, R15=***X'retcode'***, RC=***X'errorcode'*

Explanation: VSAM has detected an error during OPEN processing for the auxiliary temporary storage data set. The inserts identify the return code and the error code.

System action: The temporary storage initialization task is abnormally terminated.

Message DFHME0116 should be produced containing the symptom string for this problem.

User response: Check the return code and error code in the appropriate VSAM publication.

Module: DFHTSDM

XMEOUT Parameters: *applid, X'retcode', X'errorcode'*

Destination: Console

DFHTS1373 *applid* **VSAM error processing CLOSE for temporary storage data set, R15=***X'retcode'***, RC=***X'errorcode'*

Explanation: VSAM has detected an error during CLOSE processing for the auxiliary temporary storage data set. The inserts identify the return code and the error code.

System action: The temporary storage initialization task is abnormally terminated.

Message DFHME0116 should be produced containing the symptom string for this problem.

User response: Check the return code and error code in the appropriate VSAM publication.

Module: DFHTSDM

XMEOUT Parameters: *applid, X'retcode', X'errorcode'*

Destination: Console

DFHTS1374 *applid* **VSAM error processing PUT for temporary storage data set, R15=***X'retcode'***, RC=***X'errorcode'*

Explanation: VSAM has detected an error during PUT processing for the auxiliary temporary storage data set. The inserts identify the return code and the error code.

System action: The temporary storage initialization task is abnormally terminated.

Message DFHME0116 should be produced containing the symptom string for this problem.

User response: Check the return code and error code in the appropriate VSAM publication.

Module: DFHTSDM

XMEOUT Parameters: *applid, X'retcode', X'errorcode'*

Destination: Console

DFHTS1375 *applid* **VSAM error processing GET for temporary storage data set, R15=***X'retcode'***, RC=***X'errorcode'*

Explanation: VSAM has detected an error during GET processing for the auxiliary temporary storage data set. The inserts identify the return code and the error code.

System action: The temporary storage initialization task is abnormally terminated.

Message DFHME0116 should be produced containing the symptom string for this problem.

User response: Check the return code and error code in the appropriate VSAM publication.

Module: DFHTSDM

XMEOUT Parameters: *applid, X'retcode', X'errorcode'*

Destination: Console

DFHTS1376 *applid* **VSAM error processing MODCB for temporary storage data set, R15=***X'retcode'*

Explanation: VSAM has detected an error during MODCB processing for the auxiliary temporary storage data set. The insert identifies the return code.

System action: The temporary storage initialization task is abnormally terminated.

Message DFHME0116 should be produced containing the symptom string for this problem.

User response: Check the return code and error code in the appropriate VSAM publication.

Module: DFHTSDM

XMEOUT Parameters: *applid, X'retcode'*

Destination: Console

DFHTS1390 *date time applid* **TSQUEUE** *name* **(***X'hexval'***) not recovered. Time last referenced** *hh:mm:ss mm/dd/yy***. TSAGE:** *tsage*

Explanation: During an emergency start, the recoverable temporary storage queue (TSQUEUE) *name* was not recovered. This is because the time elapsed since it was last referenced exceeded the aging limit of temporary storage data as specified in the value of TSAGE *tsage* in the DFHTST macro.

System action: The queue is not recovered and processing continues.

User response: Ensure that the value of TSAGE specified in the DFHTST macro is adequate.

Module: DFHTSRM

XMEOUT Parameters: *date, time,applid, name, X'hexval', hh:mm:ss, mm/dd/yy, tsage*

Destination: CSMT

DFHTS1576 *applid* **Temporary storage format error**

Explanation: A nonzero return code was received from the VSAM macro GENCB when CICS was attempting to build a VSAM request parameter list (RPL).

System action: CICS terminates abnormally with a system dump. Message DFHME0116 should be produced containing the symptom string for this problem.

User response: You need further assistance from IBM to resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHTSDM

XMEOUT Parameter: *applid*

Destination: Console

DFHTS1599 *applid* **Region/Partition size insufficient to initialize CICS.**

Explanation: The temporary storage domain has been unable to GETMAIN sufficient storage for its own control blocks during initialization.

System action: CICS terminates with a system dump.

User response: Increase the region/partition size and retry. You can get information about the size and number of occurrences of relevant control blocks by using the *CICS Data Areas* in conjunction with the system dump.

Module: DFHTSDM

XMEOUT Parameter: *applid*

Destination: Console

DFHTS1601 *date time applid* **Main temporary storage usage has reached** *xx***% of TSMAINLIMIT storage.**

Explanation: The amount of main storage used by temporary storage queues above the bar has reached the percentage shown in the message of the maximum allowed storage use, which is specified by the TSMAINLIMIT setting.

System action: Processing continues.

User response: Consider whether it is possible to delete some temporary storage queues which have not been accessed for a long time or whether to increase TSMAINLIMIT.

Module: DFHTSMN

XMEOUT Parameters: *date, time, applid, xx*

Destination: CSMT

DFHTS1602 *date time applid* **Main temporary storage has attempted to exceed the TSMAINLIMIT storage limit.**

Explanation: An attempt has been made to exceed the TSMAINLIMIT storage limit. This specifies the maximum amount of above the bar storage which can be used by main temporary storage queues.

System action: Attempts to write to temporary storage queues in main storage fail until storage becomes available.

User response: Consider whether it is possible to delete some temporary storage queues which have not been accessed for a long time or whether to increase TSMAINLIMIT.

Module: DFHTSMN

XMEOUT Parameters: *date, time, applid*

Destination: CSMT

DFHTS1603 *date time applid* **The TSMAINLIMIT storage limit has been changed from** *xxxx* **Mb to** *yyyy* **Mb.**

Explanation: The TSMAINLIMIT setting has been changed. If you requested a decrease in TSMAINLIMIT, the new value will be one of the following: the value requested or the current utilization plus 25%. If the value you requested would not leave 25% of the current utilization free, CICS will change the value so as to leave 25% of current utilization as a buffer, subject to not increasing the TSMAINLIMIT. TSMAINLIMIT will not increase if you request a decrease. If you requested an increase in TSMAINLIMIT, the new value will be the requested value, assuming that a valid value was requested.

System action: Processing continues.

User response: If CICS has set the new value higher than the value you requested when you reduced the limit, consider deleting some temporary storage queues and re-issuing the command to lower the TSMAINLIMIT.

Module: DFHTSMN

XMEOUT Parameters: *date, time, applid, xxxx, yyyy*

Destination: CSMT

DFHTS1604 *date time applid* **Main temporary storage usage has fallen below 70% of TSMAINLIMIT.**

Explanation: The current utilization of 64 bit storage by main temporary storage queues has fallen below 70% of the TSMAINLIMIT setting.

System action: Processing continues.

User response: None.

Module: DFHTSMN, DFHTSSR

XMEOUT Parameters: *date, time, applid*

Destination: CSMT

DFHTS1605 *date time applid* **Scan of local temporary storage queues completed.** *XXXX* **local temporary storage queues were scanned and** *YYYY* **were deleted.**

Explanation: A scan of local temporary storage queues has been performed and zero or more have been deleted. The decision to delete or not is based on the last used time.

System action: Processing continues.

User response: None.

Module: DFHTSCL

XMEOUT Parameters: *date, time, applid, XXXX, YYYY*

Destination: CSMT

DFHTS1606 *date time applid* **The TSMAINLIMIT has been left unchanged at** *xxxx* **Mb.**

Explanation: An attempt has been made to decrease the TSMAINLIMIT setting. The requested value would not have left at least 25% of the currently used amount of storage as a buffer for future use. CICS will not reduce the limit below this level so as to avoid temporary storage write requests immediately causing the TSMAINLIMIT to be reached. The TSMAINLIMIT is left unchanged.

System action: Processing continues.

User response: Consider deleting some temporary storage queues and re-issuing the command to lower the TSMAINLIMIT.

Module: DFHTSSR

XMEOUT Parameters: *date, time, applid, xxxx*

Destination: CSMT

DFHTS1607 *date time applid* **An attempt to increase TSMAINLIMIT has failed. The TSMAINLIMIT setting has been left unchanged.**

Explanation: An attempt to increase the TSMAINLIMIT setting has failed. This is because the requested value would have exceeded 25% of the MEMLIMIT setting. This is not allowed.

System action: The TSMAINLIMIT has not been changed.

User response: It is only possible to increase TSMAINLIMIT to a value less than or equal to 25% of MEMLIMIT. If an increase of TSMAINLIMIT is required, calculate the upper limit allowed and try again.

Module: DFHTSSR

XMEOUT Parameters: *date, time, applid*

Destination: CSMT

DFHTS1608 *applid* **TS domain initialization has failed because an attempt was made to set TSMAINLIMIT to a value greater than 25% of MEMLIMIT.**

Explanation: An attempt to set the TSMAINLIMIT value has failed. This is because the requested value would have exceeded 25% of the MEMLIMIT setting. This is not allowed.

System action: TS domain initialization has failed. This causes CICS initialization to be terminated.

User response: It is only possible to set

| TSMAINLIMIT to a value less than or equal to 25% of MEMLIMIT. Check the SIT override setting for TSMAINLIMIT and the value of MEMLIMIT for your region.

| **Module:** DFHTSSR

| **XMEOUT Parameter:** *applid*

| **Destination:** Console

DFHUPnnnn messages

DFHUP0201 *applid* **ANOTHER PRODUCT HAS ALREADY REGISTERED FOR THIS DOMAIN. IFAUSAGE RC 4 HAS BEEN ISSUED. MODULE** *module*

Explanation: A return code of 4 has been issued in response to an IFAUSAGE macro call. Another product has already registered for this domain.

System action: The current request is accepted but there is duplicate recording of data for both products.

User response: Examine the type 89 records to determine which product is causing the duplicate registration to the domain.

See the *MVS/ESA Support for Measured Usage License Charges* manual for an explanation of the return code.

Module: DFHCSDUP, DFHDRPA, DFHDUP, DFHEXP1, DFHJUP, DFHKETCB, DFHMNDUP, DFHMSCAN, DFHSTUP, DFHTUP, DFHWOS

Destination: Console

DFHUP0202 *applid* **THE UNAUTHORIZED REQUEST LIMIT HAS BEEN EXCEEDED. IFAUSAGE RC 8 HAS BEEN ISSUED. MODULE** *module*

Explanation: A return code of 8 has been issued in response to an IFAUSAGE macro call. This unauthorized request would cause the number of such requests to exceed the unauthorized request limit.

System action: Processing continues.

User response: See the *MVS/ESA Support for Measured Usage License Charges* manual for an explanation of the return code.

You may need further assistance from IBM to resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHCSDUP, DFHDRPA, DFHDUP, DFHEXP1, DFHJUP, DFHKETCB, DFHMNDUP, DFHMSCAN, DFHSTUP, DFHTUP, DFHWOS

Destination: Console

DFHUP0203 *applid* **USAGE DATA COLLECTION FUNCTION IS NOT AVAILABLE ON THIS SYSTEM. IFAUSAGE RC 16 HAS BEEN ISSUED. MODULE** *module*

Explanation: A return code of 16 has been issued in response to an IFAUSAGE macro call. The usage data collection function is not available on this system.

System action: Processing continues.

User response: If SMF usage processing is not available on this system (for example, if apar 0W02855 is not installed), you can ignore this message.

See the *MVS/ESA Support for Measured Usage License Charges* manual for an explanation of the return code.

You may need further assistance from IBM to resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHTUP, DFHWOS, DFHKETCB, DFHSIP

Destination: Console

DFHUP0204 *applid* **AN INVALID REQUEST HAS BEEN MADE. IFAUSAGE RETURN CODE** *X'code'***. MODULE** *module*

Explanation: The return code X'*code* has been issued in response to an IFAUSAGE macro call. An invalid request or an internal parameter error has occurred.

System action: Processing continues.

User response: If SMF usage processing is not available on this system (for example, if apar 0W02855 is not installed) you can ignore this message.

See the *MVS/ESA Support for Measured Usage License Charges* manual for an explanation of the return code.

You may need further assistance from IBM to resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHCSDUP, DFHDRPA, DFHDUP, DFHEXP1, DFHJUP, DFHKETCB, DFHMNDUP, DFHMSCAN, DFHSTUP, DFHTUP, DFHWOS

Destination: Console

DFHUSnnnn messages

DFHUS0001 *applid* **An abend (code** *aaa/bbbb***) has occurred at offset** *X'offset'* **in module** *modname***.**

Explanation: An abnormal end (abend) or program check has occurred in module *modname*. This implies that there may be an error in the CICS code. Alternatively, unexpected data has been input, or storage has been overwritten.

The code *aaa/bbbb* is a 3-digit hexadecimal MVS code (if applicable), followed by a 4-digit alphanumeric CICS code. The MVS code is a system completion code (for example, 0C1 or D37). If an MVS code is not applicable, this field is filled with three hyphens. The CICS code is an abend code or a number referring to a CICS message (for example, AKEA is a CICS abend code; 1310 refers to message DFHTS1310).

System action: An exception entry is made in the trace table. A system dump is taken, unless you have specifically suppressed dumps in the dump table.

CICS continues unless you have specified in the dump table that CICS should terminate. If appropriate, an error return code is sent to the caller of this domain. In this case CICS could be terminated by the caller (for example, the domain manager, DFHDMDM). A message is issued to this effect.

Message DFHME0116 should be produced containing the symptom string for this problem.

User response: Notify the system programmer. If CICS is still running, it is necessary to decide whether to terminate CICS.

Look up the MVS code, if there is one, in the relevant MVS codes manual which is detailed in the book list in the front of this manual.

Next, look up the CICS alphanumeric code. This tells you, for example, whether the error was a program check, an abend, or a runaway, and may give you some guidance concerning user response.

If module *modname* is not crucial to the running of your CICS system, you may decide to continue to run and bring CICS down at a convenient time to resolve the problem.

If you cannot run without the full use of module *modname* you should bring CICS down in a controlled shutdown.

You need further assistance from IBM to resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHUSAD, DFHUSDM, DFHUSFL, DFHUSIS, DFHUSST, DFHUSXM

XMEOUT Parameters: *applid, aaa/bbbb, X'offset', modname*

Destination: Console

DFHUS0002 *applid* **A severe error (code** *X'code'***) has occurred in module** *modname***.**

Explanation: An error has been detected in module *modname*. The code X'*code* is the exception trace point ID which uniquely identifies what the error is and where it was detected.

System action: An exception entry (code X'*code* in the message) is made in the trace table. A system dump is taken, unless you have specifically suppressed dumps in the dump table.

CICS continues unless you have specified in the dump table that CICS should terminate. If appropriate, an error return code is sent to the caller of this domain. In this case, CICS could be terminated by the caller (for example, the domain manager, DFHDMDM). A message is issued to this effect.

Message DFHME0116 should be produced containing the symptom string for this problem.

User response: This indicates a possible error in CICS code. The severity of its impact depends on the importance of the function being executed at the time of the error.

CICS may not have been terminated. If the message occurs once and module *modname* is not crucial to the running of your CICS system, you may decide to continue to run and bring CICS down at a convenient time to resolve the problem.

If the message recurs or if you cannot run without the full use of module *modname*, you should bring CICS down in a controlled shutdown.

You need further assistance from IBM to resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHUSAD, DFHUSDM, DFHUSFL, DFHUSIS, DFHUSST, DFHUSXM

XMEOUT Parameters: *applid, X'code',modname*

Destination: Console

DFHUS0004 *applid* **A possible loop has been detected at offset** *X'offset'* **in module** *modname***.**

Explanation: A CICS function is taking more time to process than CICS expects. A possible loop has been detected in module *modname* at offset X'*offset*. This is the offset of the instruction which was executing at the time the error was detected.

System action: An exception entry is made in the trace table. A system dump is taken, unless you have specifically suppressed dumps in the dump table.

CICS continues unless you have specified in the dump table that CICS should terminate. If appropriate, an error return code is sent to the caller of this domain. In this case CICS could be terminated by the caller (for example, the domain manager, DFHDMDM). A message is issued to this effect.

Message DFHME0116 should be produced containing the symptom string for this problem.

User response: Notify the system programmer. If CICS has not been terminated, it is necessary to decide whether the problem is serious enough to bring CICS down.

Since some CICS functions can use a lot of processor time, this message may have been caused by a long-running function. So there may not be an error here. Usually, CICS purges a CICS function which exceeds the runaway task time interval which you have specified in the SIT (this is the ICVR which is measured in milliseconds). This means that module *modname* in the message is terminated and CICS continues.

But if you have declared ICVR=0 in the SIT and you consider that module *modname* has gone into a loop, you have to terminate CICS in order to terminate the runaway function.

If CICS has terminated module *modname*, and you consider that it was not a runaway, you should increase the ICVR time interval in the SIT. You have to bring CICS down at a suitable time to do this permanently. However you can change the ICVR time interval temporarily online, using the CEMT transaction.

If raising the ICVR time does not solve the problem, you will need further assistance from IBM. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHUSAD, DFHUSDM, DFHUSFL, DFHUSIS, DFHUSST, DFHUSXM

XMEOUT Parameters: *applid, X'offset', modname*

Destination: Console

DFHUS0006 *applid* **Insufficient storage to satisfy Getmain (code** *X'code'***) in module** *modname***. MVS code** *mvscode***.**

Explanation: An MVS GETMAIN was issued by module *modname*, but there was insufficient storage available to satisfy the request.

The code X'*code* is the exception trace point ID which uniquely identifies the place where the error was detected.

The code *mvscode* is the MVS GETMAIN return code.

System action: An exception entry is made in the trace table (code X'*code*). A system dump is taken, unless you have specifically suppressed dumps in the dump table.

CICS continues unless you have specified in the dump table that CICS should terminate.

If appropriate, an error return code is sent to the caller of this domain. In this case, CICS could be terminated by the caller (for example, the domain manager, DFHDMDM). A message is issued to this effect.

Message DFHME0116 should be produced containing the symptom string for this problem.

User response: If CICS has been terminated by another module, look out for the relevant termination messages (from, for example, the domain manager), and look up the User Response for these messages.

If CICS is still running, the problem may be a temporary one which rights itself if more storage becomes available. If you can manage without module *modname*, you may decide to continue and bring CICS down at a convenient time to resolve the problem. If the message recurs or if you cannot run without the full use of all CICS modules, you should bring CICS down in a controlled shutdown.

You can get diagnostic information about the MVS return code by consulting the relevant MVS codes manual.

Try decreasing the size limits of the DSAs or EDSAs. Or, try increasing the size of the whole region, if it is not already at maximum size. See the *CICS System Definition Guide* or the *CICS Performance Guide* for more information on CICS storage.

Module: DFHUSDM, DFHUSAD

XMEOUT Parameters: *applid, X'code',modname, mvscode*

Destination: Console

DFHUS0050 *applid* **The default userid** *userid1* **cannot be used by this CICS job with region userid** *userid2***.**

Explanation: The default userid specified in the system initialization parameter DFLTUSER cannot be used by this CICS job.

The region userid for this CICS job is not authorized to use the userid specified in the DFLTUSER system initialization parameter.

System action: CICS initialization terminates.

User response: Ensure the default userid and the userid for the CICS region are correct.

If the two userids are correct, obtain the necessary authorization for the default userid to be used by the CICS region userid. This may require the assistance of a security administrator.

Previous messages may have been produced by the job giving additional information.

Module: DFHUSDM

XMEOUT Parameters: *applid, userid1,userid2*

Destination: Console

DFHUS0070 *applid* **Security check for CICS region userid (***userid***) has failed. SAF codes are (***X'safresp'***,***X'safreas'***). ESM codes are (***X'esmresp'***,***X'esmreas'***). USAD reason code is (***reason***).**

Explanation: An attempt was made to establish security for the CICS region userid but this was rejected by the external security manager (ESM).

System action: CICS initialization terminates.

User response: The response and reason codes (*safresp* and *safreas*) returned by the system authorization facility (SAF), and the response and reason codes (*esmresp* and *esmreas*) returned by the external security manager (ESM) are those issued by the RACROUTE REQUEST=VERIFY or RACROUTE REQUEST=EXTRACT macros. For the meaning of the response and reason codes in the message see *z/OS MVS Programming: Authorized Assembler Services Guide* (SA22-7608) and *z/OS Security Server Racroute Macro Reference* (SA22-7692).

There may be further messages produced by CICS or the external security manager (ESM) which provide more information.

If the ESM and SAF codes are not sufficient to explain the problem, then the USAD response code can be analyzed by IBM support. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHUSDM

XMEOUT Parameters: *applid, userid,X'safresp', X'safreas', X'esmresp',X'esmreas', reason*

Destination: Console

DFHUS0100 *applid***CICS is unable to listen for ENF event 71. Changing a user's RACF attributes will only take effect after the USRDELAY timeout.**

Explanation: CICS was unable to register with z/OS to listen to ENF event 71. This event notifies CICS when a user's RACF profile has changed so that the new profile will be applied the next time an eligible user ID is used.

System action: A system dump is taken, unless you have specifically disabled dumps for this dumpcode in the dump table. RACF profile changes will only take effect when the USRDELAY period expires for the session. See the USRDELAY SIT parameter for a description of this mechanism.

User response: Error information is provided in exception trace point DMDM 0090 for this failure. See MVS Authorized Assembler Services Guide for a description of the event.

Module: DFHUSDM

XMEOUT Parameter: *applid*

Destination: Console

DFHUS0120 *applid* **An error occurred when performing SNSCOPE checking for a signon request.**

Explanation: The MVS ENQ issued as part of SNSCOPE checking has failed. The return code indicates that the CICS job has reached the limit of concurrent resource requests.

System action: A system dump is suppressed, unless you have specifically enabled dumps for this dumpcode in the dump table. The request to signon is rejected.

User response: See the *z/OS MVS Programming: Assembler Services Guide* for guidance on increasing the MVS ENQ limit. The MVS ENQ is issued by CICS in an unauthorized state.

Module: DFHUSAD, DFHUSFL

XMEOUT Parameter: *applid*

Destination: Console

DFHUS0150 *applid* **An attempt to establish security has failed for userid** *userid* **in group** *groupid***,** *{no terminal, | netname | console }portname* **applid** *applid***. Unable to initialize the transaction** *tranid***. SAF codes are (***X'safresp'***,***X'safreas'***). ESM codes are (***X'esmresp'***,***X'esmreas'***).**

Explanation: An attempt was made to establish security for userid *userid* in group *groupid* with access to resources allowed for the terminal or console *portname* and the application *applid*. The attempt was rejected by the external security manager (ESM).

The transaction *tranid* cannot be initialized.

System action: Security has not been established for the userid. The attempt to initialize the transaction has failed.

User response: The response and reason codes (*safresp* and *safreas*) returned by the system authorization facility (SAF), and the response and reason codes (*esmresp* and *esmreas*) returned by the external security manager (ESM) are those issued by the RACROUTE REQUEST=VERIFY or RACROUTE REQUEST=EXTRACT macros. These return codes are described in the *z/OS MVS Programming: Assembler Services Guide* and in *z/OS Security Server RACROUTE Macro Reference*. See these manuals for an explanation of the codes.

There may be further messages produced by CICS or the external security manager (ESM) which provide more information.

Module: DFHUSXM

XMEOUT Parameters: *applid, userid, groupid, {99=no terminal, , 1=netname , 2=console }, portname, applid, tranid, X'safresp', X'safreas', X'esmresp', X'esmreas'*

Destination: Console

DFHUS0200 *date time applid* **User** *userid* **in group** *groupid{ at netname | at console }portname* **has been timed out.**

Explanation: User *userid* in group *groupid* (at terminal *portname* if appropriate) has been removed from this CICS system because the userid has been unused for a period longer than that specified in the USRDELAY system initialization parameter.

System action: Processing continues.

User response: See the *CICS System Definition Guide* for more information about USRDELAY.

Module: DFHUSDM

XMEOUT Parameters: *date, time,applid, userid, groupid, {1= at netname , 2= at console }, portname*

Destination: CSCS

DFHUS0300 *date time applid* **An ICRX has been supplied without a realm for DNAME='***dname***'.**

Explanation: A distributed identity has been supplied to CICS in an ICRX with a distinguished name, but with no realm specified. This is a configuration error in the client which provided the ICRX. The distinguished name given in *dname* can be used to identify the distributed user.

System action: The ICRX is rejected.

User response: Correct the configuration error for defining the ICRX.

Module: XMEOUT Parameters: *date, time, applid, dname*

Destination: CSCS

DFHW2nnnn messages

DFHW20001 *applid* **An abend (code** *aaa/bbbb***) has occurred at offset** *X'offset'* **in module** *modname***.**

Explanation: An abnormal end (abend) or program check has occurred in module *modname*. This implies that there may be an error in the CICS code. Alternatively, unexpected data has been input, or storage has been overwritten.

The code *aaa/bbbb* is a 3-digit hexadecimal MVS code (if applicable), followed by a 4-digit alphanumeric CICS code. The MVS code is a system completion code (for example, 0C1 or D37). If an MVS code is not applicable, this field is filled with three hyphens. The CICS code is an abend code or a number referring to a CICS message (for example, AKEA is a CICS abend code; 1310 refers to message DFHTS1310).

System action: An exception entry is made in the trace table. A system dump is taken, unless you have specifically suppressed dumps in the dump table.

CICS continues unless you have specified in the dump table that CICS should terminate. If appropriate, an error return code is sent to the caller of this domain. In this case CICS could be terminated by the caller (for example, the domain manager, DFHDMDM). A message is issued to this effect.

Message DFHME0116 should be produced containing the symptom string for this problem.

User response: Notify the system programmer. If CICS is still running, it is necessary to decide whether to terminate CICS.

Look up the MVS code, if there is one, in the relevant MVS codes manual.

Next, look up the CICS alphanumeric code. This tells you, for example, whether the error was a program check, an abend, or a runaway, and may give you some guidance concerning user response.

If module *modname* is not crucial to the running of your CICS system, you may decide to continue to run and bring CICS down at a convenient time to resolve the problem. If you cannot run without the full use of module *modname* you should bring CICS down in a controlled shutdown.

You need further assistance from IBM to resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: XMEOUT Parameters: *applid, aaa/bbbb, X'offset', modname*

Destination: Console Routecodes 2, 10 and 11

DFHW20002 *applid* **A severe error (code** *X'code'***) has occurred in module** *modname***.**

Explanation: An error has been detected in module *modname*. The code X'*code* is the exception trace point ID which uniquely identifies what the error is and where the error was detected.

System action: An exception entry (code X'*code* in the

message) is made in the trace table. A system dump is taken, unless you have specifically suppressed dumps in the dump table.

CICS continues unless you have specified in the dump table that CICS should terminate. If appropriate, an error return code is sent to the caller of this domain. In this case, CICS could be terminated by the caller (for example, the domain manager, DFHDMDM). A message is issued to this effect.

Message DFHME0116 should be produced containing the symptom string for this problem.

User response: This indicates a possible error in CICS code. The severity of its impact depends on the importance of the function being executed at the time of the error.

CICS may not have been terminated. If the message occurs once and module *modname* is not crucial to the running of your CICS system, you may decide to continue to run and bring CICS down at a convenient time to resolve the problem.

If the message recurs or if you cannot run without the full use of module *modname*, you should bring CICS down in a controlled shutdown.

You need further assistance from IBM to resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: XMEOUT Parameters: *applid, X'code', modname*

Destination: Console Routecodes 2, 10 and 11

DFHW20004 *applid* **A possible loop has been detected at offset** *X'offset'* **in module** *modname***.**

Explanation: A CICS function is taking more time to process than CICS expects. A possible loop has been detected in module *modname* at offset X'*offset*. This is the offset of the instruction that was executing at the time the error was detected.

System action: An exception entry is made in the trace table. A system dump is taken, unless you have specifically suppressed dumps in the dump table.

Either this is a critical error and CICS is terminated, even if you have specified in the dump table that CICS should not terminate.

Or CICS will continue unless you have specified in the dump table that CICS should terminate. Message DFHME0116 should be produced containing the symptom string for this problem.

User response: Notify the system programmer. If CICS has not been terminated, it will be necessary to decide whether the problem is serious enough to bring CICS down.

Because some CICS functions can use a lot of processor time, this message may have been caused by a long-running function. So there may not be an error here. Usually, CICS will purge a CICS function that exceeds the runaway task time interval that you have specified in the SIT (this is the ICVR which is measured in milliseconds). This means that the module *modname* will be terminated and CICS will continue.

If you have declared ICVR=0 in the SIT and you consider that module *modname* has gone into a loop, you will have to terminate CICS in order to terminate the runaway function.

If CICS has terminated module *modname*, and you consider that it was not a runaway, you should increase the ICVR time interval in the SIT. You will have to bring CICS down at a suitable time to do this permanently. However, you can change the ICVR time interval temporarily online, using the CEMT transaction.

If raising the ICVR time does not solve the problem, you may need further assistance from IBM to resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: XMEOUT Parameters: *applid, X'offset', modname*

Destination: Console Routecodes 2, 10 and 11

DFHW20006 *applid* **Insufficient storage to satisfy Getmain (code** *X'code'***) in module** *modname***. MVS code** *mvscode***.**

Explanation: An MVS GETMAIN was issued by module *modname* but there was insufficient storage available to satisfy the request.

The code X'*code* is the exception trace point ID which uniquely identifies the place where the error was detected.

The code *mvscode* is the MVS GETMAIN return code.

During initialization, CICS may not have access to the user's *applid* coded in the SIT. If CICS produces this message in these circumstances, it uses the default *applid* value DBDCCICS.

System action: CICS will terminate with a system dump. An exception entry is made in the trace table (code *code* in the message).

Message DFHME0116 should be produced containing the symptom string for this problem.

User response: Inform the system programmer.

You can get diagnostic information about the MVS return code by consulting the relevant MVS codes manual which is listed in the book list at the front of this book.

Try decreasing the overall size limit of the DSAs or EDSAs. Or, try increasing the size of the whole region, if it is not already at maximum size. If CICS is not already terminated, you will need to bring CICS down

to do this. See the *CICS System Definition Guide* or the *CICS Performance Guide* for further information on CICS storage.

Module: DFHW2DM

XMEOUT Parameters: *applid, X'code', modname, mvscode*

Destination: Console Routecodes 2, 10 and 11

DFHW20100I *applid* **Web2.0 domain initialization has started.**

Explanation: This is an informational message indicating that initialization has started for the Web2.0 domain.

System action: System initialization continues.

User response: None. The message can be suppressed with the system initialization parameter MSGLVL=0.

Module: **XMEOUT Parameter:** *applid*

Destination: Console

DFHW20101I *applid* **Web2.0 domain initialization has ended.**

Explanation: This is an informational message indicating that initialization has completed successfully for the Web2.0 domain.

System action: System initialization continues.

User response: None. The message can be suppressed with the system initialization parameter MSGLVL=0.

Module: DFHW2DM

XMEOUT Parameter: *applid*

Destination: Console

DFHW20110 *date time applid userid* **ATOMSERVICE** *atomservice* **has been created.**

Explanation: This is an audit log message indicating that ATOMSERVICE *atomservice* has been added to the system using the INSTALL command.

System action: The system continues normally.

User response: None.

Module: DFHW2AT

XMEOUT Parameters: *date, time, applid, userid, atomservice*

Destination: CWBO

DFHW20111 *date time applid userid* **ATOMSERVICE** *atomservice* **was successfully discarded.**

Explanation: This is an audit log message indicating that ATOMSERVICE *atomservice* has been removed from the system using the DISCARD command.

System action: The system continues normally.

User response: None.

Module: DFHW2AT

XMEOUT Parameters: *date, time, applid, userid, atomservice*

Destination: CWBO

DFHW20120 *date time applid* **Configuration file** *filename* **is being analyzed for ATOMSERVICE** *atomservice***.**

Explanation: The XML statements in configuration file *filename* for ATOMSERVICE *atomservice* are being analyzed.

System action: The system continues normally.

User response: None.

Module: DFHW2AC

XMEOUT Parameters: *date, time, applid, filename, atomservice*

Destination: CWBO

DFHW20121 *date time applid* **Configuration file** *filename* **for ATOMSERVICE** *atomservice* **was not found.**

Explanation: The configuration file *filename* for ATOMSERVICE *atomservice* could not be found.

System action: The ATOMSERVICE is not installed.

User response: Create a file in the z/OS UNIX file system corresponding to the name in the ATOMSERVICE CONFIGFILE attribute.

Module: DFHW2AC

XMEOUT Parameters: *date, time, applid, filename, atomservice*

Destination: CWBO

DFHW20122 *date time applid* **The XML in the configuration file for ATOMSERVICE** *atomservice* **is not well-formed. Response codes from the XML System Services parser are (***X'return-code'***,** *X'reason-code'***).**

Explanation: The XML in the configuration file for ATOMSERVICE *atomservice* is not well-formed. The z/OS XML System Services parser returned with return code *return-code* and reason code *reason-code*.

System action: The ATOMSERVICE is not installed.

User response: Correct the XML syntax in the configuration file.

Module: DFHW2AC

XMEOUT Parameters: *date, time,applid, atomservice,*

X'return-code', X'reason-code'

Destination: CWBO

DFHW20123 *date time applid* **Configuration error for ATOMSERVICE** *atomservice***. Namespace URI** *ns-uri* **is not recognized.**

Explanation: When analyzing the configuration file for ATOMSERVICE *atomservice*, the XML namespace URI *ns-uri* was encountered. This namespace is not valid in this configuration file.

System action: The ATOMSERVICE is not installed.

User response: Correct the XML syntax in the configuration file.

Module: DFHW2AC

XMEOUT Parameters: *date, time,applid, atomservice, ns-uri*

Destination: CWBO

DFHW20124 *date time applid* **Configuration error for ATOMSERVICE** *atomservice***. XML element** *element* **is not recognized.**

Explanation: When analyzing the configuration file for ATOMSERVICE *atomservice*, an unrecognized XML element (tag name) was encountered.

System action: Analysis of the configuration file continues, but the configuration is marked as invalid, and the ATOMSERVICE will not be installed.

User response: Correct the XML syntax in the configuration file.

Module: DFHW2AC

XMEOUT Parameters: *date, time,applid, atomservice, element*

Destination: CWBO

DFHW20125 *date time applid* **Configuration error for ATOMSERVICE** *atomservice***. The XML root element is not valid.**

Explanation: When analyzing the configuration file for ATOMSERVICE *atomservice*, the root element of the XML document (the first XML tag) was found to be invalid. The root element must be `<atomservice>`.

System action: The ATOMSERVICE is not installed.

User response: Correct the XML syntax in the configuration file.

Module: DFHW2AC

XMEOUT Parameters: *date, time,applid, atomservice*

Destination: CWBO

DFHW20126 *date time applid* **Configuration error for ATOMSERVICE** *atomservice***. Child element** *prefix1*:*element1* **is not valid within element** *prefix2*:*element2***.**

Explanation: When analyzing the configuration file for ATOMSERVICE *atomservice*, an XML element hierarchy error was encountered. The element *prefix1*:*element1* is not valid as a child element of the containing element *prefix2*:*element2*.

System action: Analysis of the configuration file continues, but the configuration is marked as invalid, and the ATOMSERVICE will not be installed.

User response: Correct the XML syntax in the configuration file.

Module: DFHW2AC

XMEOUT Parameters: *date, time,applid, atomservice, prefix1,element1, prefix2, element2*

Destination: CWBO

DFHW20127 *date time applid* **Configuration error for ATOMSERVICE** *atomservice***. Attribute** *prefix1*:*attr1* **is not valid on element** *prefix2*:*element2***.**

Explanation: When analyzing the configuration file for ATOMSERVICE *atomservice*, an invalid attribute was encountered. The attribute *prefix1*:*attr1* is not valid on the containing element *prefix2*:*element2*.

System action: Analysis of the configuration file continues, but the configuration is marked as invalid, and the ATOMSERVICE will not be installed.

User response: Correct the XML syntax in the configuration file.

Module: DFHW2AC

XMEOUT Parameters: *date, time,applid, atomservice, prefix1,attr1, prefix2, element2*

Destination: CWBO

DFHW20128 *date time applid* **Configuration error for ATOMSERVICE** *atomservice***. Child element** *prefix1*:*element1* **occurs multiple times within element** *prefix2*:*element2***.**

Explanation: When analyzing the configuration file for ATOMSERVICE *atomservice*, an XML element hierarchy error was encountered. The element *prefix1*:*element1* already exists as a child element of the containing element *prefix2*:*element2*, but duplicate instances of this element are not allowed.

System action: Analysis of the configuration file continues, but the configuration is marked as invalid, and the ATOMSERVICE will not be installed.

User response: Correct the XML syntax in the configuration file.

Module: DFHW2AC

XMEOUT Parameters: *date, time,applid, atomservice, prefix1,element1, prefix2, element2*

Destination: CWBO

DFHW20129 *date time applid* **Configuration error for ATOMSERVICE** *atomservice***. Required attribute** *prefix1*:*attr1* **was not found on element** *prefix2*:*element2***.**

Explanation: When analyzing the configuration file for ATOMSERVICE *atomservice*, a required XML attribute was found to be omitted. The attribute *prefix1*:*attr1* must be supplied on the *prefix2*:*element2* element.

System action: Analysis of the configuration file continues, but the configuration is marked as invalid, and the ATOMSERVICE will not be installed.

User response: Correct the XML syntax in the configuration file.

Module: DFHW2AC

XMEOUT Parameters: *date, time,applid, atomservice, prefix1,attr1, prefix2, element2*

Destination: CWBO

DFHW20130 *date time applid* **Configuration error for ATOMSERVICE** *atomservice***. Required element** *prefix1*:*element1{ with attributes }attrib-list* **was not found within element** *prefix2*:*element2***.**

Explanation: When analyzing the configuration file for ATOMSERVICE *atomservice*, a required XML element was found to be omitted. Required element *prefix1*:*element1* was not found as as a child element of the containing element *prefix2*:*element2*. In some cases, the instance of the omitted element may require specific attributes. If so, these are listed in *attrib-list*, following the phrase "with attributes".

System action: Analysis of the configuration file continues, but the configuration is marked as invalid, and the ATOMSERVICE will not be installed.

User response: Correct the XML syntax in the configuration file.

Module: DFHW2AC

XMEOUT Parameters: *date, time,applid, atomservice, prefix1,element1, {1= with attributes },attrib-list, prefix2, element2*

Destination: CWBO

DFHW20131 *date time applid* **The bind file** *filename* **for ATOMSERVICE** *atomservice* **was not found.**

Explanation: The bind file *filename* for ATOMSERVICE *atomservice* could not be found.

System action: The ATOMSERVICE is not installed.

User response: Use the CICS XML assistant to create a file in the z/OS UNIX file system corresponding to the name in the ATOMSERVICE BINDFILE attribute.

Module: DFHW2AT

XMEOUT Parameters: *date, time,applid, filename, atomservice*

Destination: CWBO

DFHW20133 *date time applid* **Configuration error for ATOMSERVICE** *atomservice***. The value of the attribute** *attr1* **on element** *prefix2*:*element2* **does not match the value of the attribute** *attr3* **in the ATOMSERVICE definition.**

Explanation: When analyzing the configuration file for ATOMSERVICE *atomservice*, an invalid attribute value was encountered. The value of the attribute *attr1* on element *prefix2*:*element2* does not match the value of the attribute *attr2* on the ATOMSERVICE definition.

System action: Analysis of the configuration file continues, but the configuration is marked as invalid, and the ATOMSERVICE will not be installed.

User response: Correct the XML syntax in the configuration file or ATOMSERVICE definition.

Module: DFHW2AC, DFHW2AT

XMEOUT Parameters: *date, time, applid, atomservice, attr1, prefix2, element2, attr3*

Destination: CWBO

DFHW20134 *date time applid* **Configuration error for ATOMSERVICE** *atomservice***. Version number** *version* **in the configuration file is not supported at this level of CICS.**

Explanation: When analyzing the configuration file for ATOMSERVICE resource *atomservice*, an invalid value was encountered for the 'version' attribute.

System action: Analysis of the configuration file continues, but the configuration is marked as invalid, and the ATOMSERVICE resource will not be installed.

User response: The configuration file cannot be used with this release of CICS. Either change the value of the version attribute in the configuration file or deploy the ATOMSERVICE to a release of CICS that does support this version of the configuration file.

Module: DFHW2AC

XMEOUT Parameters: *date, time, applid, atomservice, version*

Destination: CWBO

DFHW20135 *date time applid* **Configuration error for ATOMSERVICE** *atomservice***. Attribute** *attr1* **on element** *prefix*:*element* **is not available at version** *version* **of the configuration file.**

Explanation: When analyzing the configuration file for ATOMSERVICE resource *atomservice*, an invalid attribute value was encountered. Use of attribute *attr1* on element *prefix*:*element* requires a higher version number in the configuration file for the ATOMSERVICE resource.

System action: Analysis of the configuration file continues, but the configuration is marked as invalid, and the ATOMSERVICE resource is not installed.

User response: Correct the version number in the configuration file.

Module: DFHW2AT

XMEOUT Parameters: *date, time, applid, atomservice, attr1, prefix, element, version*

Destination: CWBO

DFHW20136 *date time applid* **Configuration error for ATOMSERVICE** *atomservice***. Element** *prefix1*:*element1* **in element** *prefix2*:*element2* **is not available at version** *version* **of the configuration file.**

Explanation: When analyzing the configuration file for ATOMSERVICE resource *atomservice*, an invalid element was encountered. Use of element *prefix1*:*element1* on element *prefix2*:*element2* requires a higher version number in the configuration file for the ATOMSERVICE.

System action: Analysis of the configuration file continues, but the configuration is marked as invalid, and the ATOMSERVICE resource is not installed.

User response: Correct the version number in the configuration file.

Module: DFHW2AT

XMEOUT Parameters: *date, time, applid, atomservice, prefix1, element1, prefix2, element2, version*

Destination: CWBO

DFHW20137 *date time applid* **Install for ATOMSERVICE** *atomservice* **has failed because** *{an ATOMSERVICE with the same name already exists | an authorization error occurred | of a problem with the ATOMSERVICE configuration file | the URIMAP could not be created | an unspecified error occurred}***.**

Explanation: An ATOMSERVICE cannot be installed from a BUNDLE.

System action: The BUNDLE is installed in the DISABLED state.

User response: If there is a problem with the configuration file then another CICS message will have been issued. Review that message and correct any problems reported.

If there is a problem with the URIMAP then this is likely to imply that another URIMAP is already installed with the same PATH. Consider using a different PATH.

Module: DFHW2RL

XMEOUT Parameters: *date, time, applid, atomservice, {1=an ATOMSERVICE with the same name already exists, 2=an authorization error occurred, 3=of a problem with the ATOMSERVICE configuration file, 4=the URIMAP could not be created, 5=an unspecified error occurred}*

Destination: CWBO

DFHW20141 *date time applid* **The bind file** *filename* **for ATOMSERVICE** *atomservice* **was not found.**

Explanation: The bind file *filename* for ATOMSERVICE *atomservice* could not be found.

System action: The ATOMSERVICE is not installed.

User response: Use the CICS XML assistant to create a file in the z/OS UNIX file system corresponding to the name in the ATOMSERVICE BINDFILE attribute.

Module: DFHW2AT

XMEOUT Parameters: *date, time, applid, filename, atomservice*

Destination: CWBO

DFHW20142 *date time applid* **CICS is not authorized to access** *{CONFIGFILE | BINDFILE} filename* **for ATOMSERVICE** *atomservice***.**

Explanation: The CICS region user ID is not authorized to access the file *filename*, which is being used as a CONFIGFILE or a BINDFILE for ATOMSERVICE *atomservice*.

System action: The ATOMSERVICE is not installed.

User response: Either specify the name of a different

file to which the CICS region user ID has access, or use the file authorization facilities of UNIX System Services (such as the chmod command) to grant permission to the CICS region user ID to access the specified file.

Module: DFHW2AT, DFHW2SD

XMEOUT Parameters: *date, time, applid, {1=CONFIGFILE, 2=BINDFILE}, filename, atomservice*

Destination: CWBO

DFHW20151 *date time applid* **Service program** *service-prog* **terminated abnormally with abend code** *abcode* **processing** *req-method* **for ATOMSERVICE** *atomserv***.**

Explanation: The program *service-prog*, which is being used as a service routine for the ATOMSERVICE *atomserv*, has terminated abnormally with abend code *abcode*. The ATOMSERVICE was processing a request for HTTP method *req-method*.

System action: A partial Atom response is constructed, but it does not contain the content that should have been provided by the failing program.

User response: Examine any diagnostic information such as traces or dumps to discover why the program failed. If the service program is supplied by CICS (that is, if its name begins with DFH or EYU) you may need to contact IBM for further assistance.

Module: DFHW2FD

XMEOUT Parameters: *date, time, applid, service-prog, abcode, req-method, atomserv*

Destination: CWBO

DFHW20160 W *date time applid* **The file** *filename* **has** *access* **access set to NO. A** *httpmeth* **request for ATOMSERVICE** *atomserv* **cannot be satisfied.**

Explanation: The file *filename* has *access* access set to NO. A *httpmeth* request for ATOMSERVICE *atomserv* cannot be satisfied.

System action: An error response is returned to the client.

User response: To allow future ATOM requests to complete successfully, the access permissions on the file definition must be changed. For an ATOM feed, the file must allow access for READ, and BROWSE requests. For an ATOM collection, http requests POST, PUT, and DELETE require the file definition to also allow ADD, UPDATE, and DELETE respectively.

Module: DFHW2FI, DFHW2FR

XMEOUT Parameters: *date, time, applid, filename, access, httpmeth, atomserv*

Destination: CWBO

DFHW20161 *date time applid* **Referenced resource** *resource* **has a type that is not supported for delivering feeds. ATOMSERVICE** *atomservice* **has been disabled.**

Explanation: The CICS resource *resource*, which is referenced by ATOMSERVICE *atomservice*, is not defined with a type that is supported for access as an Atom feed. For example, it may be a BDAM file, or a VSAM file that is referenced by an alternate index with non-unique keys. These file types cannot be accessed as feeds.

System action: The ATOMSERVICE resource is disabled.

User response: Change the resource referenced by the ATOMSERVICE to one that is supported for delivering feeds. Then set the ATOMSERVICE enabled.

Module: DFHW2FD

XMEOUT Parameters: *date, time, applid, resource, atomservice*

Destination: CWBO

DFHWBnnnn messages

DFHWB0001 *applid* **An abend (code** *aaa/bbbb***) has occurred at offset** *X'offset'* **in module** *modname***.**

Explanation: An abnormal end (abend) or program check has occurred in module *modname*. This implies that there may be an error in the CICS code. Alternatively, unexpected data has been input, or storage has been overwritten.

The code *aaa/bbbb* is a 3-digit hexadecimal MVS code (if applicable), followed by a 4-digit alphanumeric CICS code. The MVS code is a system completion code (for example, 0C1 or D37). If an MVS code is not applicable, this field is filled with three hyphens. The CICS code is an abend code or a number referring to a CICS message (for example, AKEA is a CICS abend code; 1310 refers to message DFHTS1310).

System action: An exception entry is made in the trace table. A system dump is taken, unless you have specifically suppressed dumps in the dump table.

CICS continues unless you have specified in the dump table that CICS should terminate. If appropriate, an error return code is sent to the caller of this domain. In this case CICS could be terminated by the caller (for example, the domain manager, DFHDMDM). A message is issued to this effect.

Message DFHME0116 should be produced containing the symptom string for this problem.

User response: Notify the system programmer. If CICS is still running, it is necessary to decide whether to terminate CICS.

Look up the MVS code, if there is one, in the relevant MVS codes manual.

Next, look up the CICS alphanumeric code. This tells you, for example, whether the error was a program check, an abend, or a runaway, and may give you some guidance concerning user response.

If module *modname* is not crucial to the running of your CICS system, you may decide to continue to run and bring CICS down at a convenient time to resolve the problem. If you cannot run without the full use of module *modname* you should bring CICS down in a controlled shutdown.

You need further assistance from IBM to resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHWBWB

XMEOUT Parameters: *applid, aaa/bbbb, X'offset', modname*

Destination: Console

DFHWB0002 *applid* **A severe error (code** *X'code'***) has occurred in module** *modname***.**

Explanation: An error has been detected in module *modname*. The code X'*code* is the exception trace point ID which uniquely identifies what the error is and where the error was detected.

System action: An exception entry (code X'*code* in the message) is made in the trace table. A system dump is taken, unless you have specifically suppressed dumps in the dump table.

CICS continues unless you have specified in the dump table that CICS should terminate. If appropriate, an error return code is sent to the caller of this domain. In this case, CICS could be terminated by the caller (for example, the domain manager, DFHDMDM). A message is issued to this effect.

Message DFHME0116 should be produced containing the symptom string for this problem.

User response: This indicates a possible error in CICS code. The severity of its impact depends on the importance of the function being executed at the time of the error.

CICS may not have been terminated. If the message occurs once and module *modname* is not crucial to the running of your CICS system, you may decide to continue to run and bring CICS down at a convenient time to resolve the problem.

If the message recurs or if you cannot run without the full use of module *modname*, you should bring CICS down in a controlled shutdown.

You need further assistance from IBM to resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHWBST, DFHWBTC, DFHWBDM, DFHWBQM, DFHWBSR, DFHWBXM

XMEOUT Parameters: *applid, X'code',modname*

Destination: Console

DFHWB0004 *applid* **A possible loop has been detected at offset** *X'offset'* **in module** *modname***.**

Explanation: A CICS function is taking more time to process than CICS expects. A possible loop has been detected in module *modname* at offset X'*offset*. This is the offset of the instruction that was executing at the time the error was detected.

System action: An exception entry is made in the trace table. A system dump is taken, unless you have specifically suppressed dumps in the dump table.

Either this is a critical error and CICS is terminated, even if you have specified in the dump table that CICS should not terminate.

Or CICS will continue unless you have specified in the dump table that CICS should terminate. Message DFHME0116 should be produced containing the symptom string for this problem.

User response: Notify the system programmer. If CICS has not been terminated, it will be necessary to decide whether the problem is serious enough to bring CICS down.

Because some CICS functions can use a lot of processor time, this message may have been caused by a long-running function. So there may not be an error here. Usually, CICS will purge a CICS function that exceeds the runaway task time interval that you have specified in the SIT (this is the ICVR which is measured in milliseconds). This means that the module *modname* will be terminated and CICS will continue.

If you have declared ICVR=0 in the SIT and you consider that module *modname* has gone into a loop, you will have to terminate CICS in order to terminate the runaway function.

If CICS has terminated module *modname*, and you consider that it was not a runaway, you should increase the ICVR time interval in the SIT. You will have to bring CICS down at a suitable time to do this permanently. However, you can change the ICVR time interval temporarily online, using the CEMT transaction.

If raising the ICVR time does not solve the problem, you may need further assistance from IBM to resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHWBST, DFHWBTC

XMEOUT Parameters: *applid, X'offset', modname*

Destination: Console

DFHWB0006 *applid* **Insufficient storage to satisfy Getmain (code** *X'code'***) in module** *modname***. MVS code** *mvscode***.**

Explanation: An MVS GETMAIN was issued by module *modname* but there was insufficient storage available to satisfy the request.

The code X'*code* is the exception trace point ID which uniquely identifies the place where the error was detected.

The code *mvscode* is the MVS GETMAIN return code.

During initialization, CICS may not have access to the user's *applid* coded in the SIT. If CICS produces this message in these circumstances, it uses the default *applid* value DBDCCICS.

System action: CICS will terminate with a system dump. An exception entry is made in the trace table (code *code* in the message).

Message DFHME0116 should be produced containing the symptom string for this problem.

User response: Inform the system programmer.

You can get diagnostic information about the MVS return code by consulting the relevant MVS codes manual which is listed in the book list at the front of this book.

Try decreasing the overall size limit of the DSAs or EDSAs. Or, try increasing the size of the whole region, if it is not already at maximum size. If CICS is not already terminated, you will need to bring CICS down to do this. See the *CICS System Definition Guide* or the *CICS Performance Guide* for further information on CICS storage.

Module: DFHWBST

XMEOUT Parameters: *applid, X'code',modname, mvscode*

Destination: Console

DFHWB0100 *date time applid tranid* **The CICS Web Interface program cannot link to program DFHWBBLI. EIBRESP:** *eibresp***. EIBRESP2** *resp2val***. Host IP address:** *hostaddr***. Client IP address:** *clientaddr***.{ | }** *TCPIPSERVICE: tcpipservice*

Explanation: The alias program used EXEC CICS LINK but was unable to link to program DFHWBBLI.

System action: The link is abandoned. An HTTP response code of 500 (internal server error) is returned to the Web Browser. The alias abends with abend code AWBL.

User response: Use the CEDA transaction to ensure that program DFHWBBLI has been correctly defined and installed.

Module: DFHWBA

XMEOUT Parameters: *date, time,applid, tranid, eibresp, resp2val, hostaddr, clientaddr, {1= , 2= TCPIPSERVICE: }, tcpipservice*

Destination: CWBO

DFHWB0101 *date time applid tranid* **The CICS Web Interface alias program DFHWBA detected a failure in program DFHWBBLI. Host IP address** *hostaddr***. Client IP address:** *clientaddr***.{ | }** *TCPIPSERVICE: tcpipservice*

Explanation: Program DFHWBBLI has returned an error response to the alias.

System action: The request is abandoned. The error response returned by program DFHWBBLI is returned to the Web Browser in an HTTP response

403 The userid associated with the request is not authorized to invoke the requested converter program, or the requested server program.

404 A link to the converter program or to the server program failed because CICS could not locate the requested program.

500 A link to the converter program or to the server program failed with an unexpected error.

503 A link to the converter program or to the server program failed for one of the following reasons:

- The server program is defined as remote, but the link to this program failed with a SYSID error, so the remote connection is either not defined correctly, or not active.
- The link to the converter or the server program failed with the ROLLEDBACK response.

The alias abends with abend code AWBM unless suppressed by the URM DFHWBEP.

User response: Check program DFHWBBLI and the programs which it calls.

Module: DFHWBA

XMEOUT Parameters: *date, time,applid, tranid, hostaddr, clientaddr, {1= , 2= TCPIPSERVICE: }, tcpipservice*

Destination: CWBO

DFHWB0102 *date time applid tranid* **The CICS Web Interface alias program has received an incorrect response on a call made to CICS during alias initialization. EIBRESP:** *eibresp* **EIBRESP2:** *resp2val*.{ | *TCPIPSERVICE* }*tcpipservice*

Explanation: The alias program has received an unexpected response on a call made to CICS during alias initialization.

System action: The alias abends with abend code AWBI.

User response: You may need further assistance from IBM to resolve this problem. See the *CICS External Interfaces Guide* and Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHWBA

XMEOUT Parameters: *date, time,applid, tranid, eibresp, resp2val, {1= , 2= TCPIPSERVICE: }, tcpipservice*

Destination: CWBO

DFHWB0103 *date time applid tranid* **The CICS Web Interface alias program has received an error response (code** *X'code'***) on a call made to CICS during alias initialization.**{ | *TCPIPSERVICE:* }*tcpipservice*

Explanation: The alias program was unable to locate the START data for this request, or the START data was invalid. The error response code X'*code* is the exception trace point id that uniquely identifies which error has occurred. A code of '4565'X means that the START data was missing, and '4566'X means that the START data was invalid.

System action: The alias abends with abend code AWBF and a trace entry is made in the trace table.

User response: The alias program DFHWBA is only to be used for alias transactions started by the CICS Web Interface. User-written applications should not be starting alias transactions, as data passed to the alias will not be in the expected format.

Module: DFHWBA

XMEOUT Parameters: *date, time,applid, tranid, X'code', {1= , 2= TCPIPSERVICE: }, tcpipservice*

Destination: CWBO

DFHWB0106 *date time applid tranid* **The CICS Web Interface program DFHWBA has detected an error.**{ | *TCPIPSERVICE:* }*tcpipservice*

Explanation: The alias had detected an error.

System action: A system dump is taken. The alias abends with abend code AWBH. Message DFHME0116 should be produced containing the symptom string for this problem.

User response: Examine the diagnostics to determine the reason for the error.

Module: DFHWBA

XMEOUT Parameters: *date, time,applid, tranid, {1= , 2= TCPIPSERVICE: }, tcpipservice*

Destination: CWBO

DFHWB0108 *date time applid tranid* **The CICS Web Interface alias program has detected an abend. Host IP address:** *hostaddr***. Client IP address:** *clientaddr*.{ | *TCPIPSERVICE:* }*tcpipservice*

Explanation: The alias has detected an abend.

System action: The alias abends with abend code AWBK.

User response: Examine the diagnostics to determine the reason for the error.

Module: DFHWBA

XMEOUT Parameters: *date, time,applid, tranid, hostaddr, clientaddr, {1= , 2= TCPIPSERVICE: }, tcpipservice*

Destination: CWBO

DFHWB0109I *applid* **Web domain initialization has started.**

Explanation: This is an informational message indicating the start of Web domain initialization.

System action: CICS initialization continues.

User response: None. You can suppress this message with the system initialization parameter, MSGLVL=0.

Module: DFHWBDM

XMEOUT Parameter: *applid*

Destination: Console

DFHWB0110I *applid* **Web domain initialization has ended.**

Explanation: Web domain initialization has completed successfully.

System action: CICS initialization continues.

User response: None. You can suppress this message with the system initialization parameter, MSGLVL=0.

Module: DFHWBDM

XMEOUT Parameter: *applid*

Destination: Console

DFHWB0111 *applid* **WB Domain initialization failed. Reason Code** *X'rc'*.

Explanation: The CICS Web domain initialization failed with reason code *rc*.

System action: CICS initialization continues. Subsequent calls to the components of the CICS Web environment may fail.

User response: Use the reason code *rc* to determine why initialization failed. The possible reasons are

1 Storage for the Web anchor block could not be obtained.

5 Storage for the State Manager anchor block could not be obtained.

6 The creation of the State Token Directory failed.

7 The subpool required for state management could not be added.

8 The subpool required for HTTP buffers could not be added.

9 The addition of the Web State Manager lock failed.

A The subpool required for 3270 buffers could not be added.

B The initialization of the webrequest class failed.

Module: DFHWBDM

XMEOUT Parameters: *applid, X'rc'*

Destination: Console

DFHWB0114 *date time applid tranid* **A non-HTTP request has been received by an HTTP service. The request has been rejected. Host IP address:** *hostaddr*. **Client IP address:** *clientaddr*.*{ | TCPIPSERVICE: }tcpipservice*

Explanation: CICS Web Support has received a non-HTTP request or a SSL request for a HTTP TCPIPSERVICE.

System action: The request is rejected.

User response: Correct the TCPIPSERVICE definition to suit the type of request being sent.

Module: DFHWBXN

XMEOUT Parameters: *date, time,applid, tranid, hostaddr, clientaddr, {1= , 2= TCPIPSERVICE: }, tcpipservice*

Destination: CWBO

DFHWB0117 *date time applid tranid* **The CICS Web Interface program DFHWBBLI has received a corrupt parameter list from the converter program** *program_name* **during** *{Decode | Encode}* **processing.***{ | TCPIPSERVICE: }tcpipservice*

Explanation: Program DFHWBBLI received an error response from the converter program *program_name* during either Decode or Encode processing, and the parameter list being passed was corrupt.

System action: An error message is sent to the client and an exception trace entry is made in the trace table.

User response: Ensure that the converter program being used is correct.

Module: DFHWBBLI

XMEOUT Parameters: *date, time,applid, tranid, program_name,{4=Decode, 5=Encode}, {1= , 2= TCPIPSERVICE: }, tcpipservice*

Destination: CWBO

DFHWB0118 *date time applid tranid* **The CICS Web Interface program DFHWBBLI has detected an error.***{ | TCPIPSERVICE: }tcpipservice*

Explanation: Program DFHWBBLI has detected an error.

System action: A system dump is taken. The transaction abends with abend code AWBR. Message DFHME0116 should be produced containing the symptom string for this problem.

User response: Examine the diagnostics to determine the reason for the error.

Module: DFHWBBLI

XMEOUT Parameters: *date, time,applid, tranid, {1= , 2= TCPIPSERVICE: }, tcpipservice*

Destination: CWBO

DFHWB0119 *date time applid tranid* **The CICS Web Interface program DFHWBBLI has been started incorrectly.***{ | TCPIPSERVICE: }tcpipservice*

Explanation: Program DFHWBBLI has detected an error while validating initialization information. This probably means that the program has been started incorrectly.

System action: The transaction abends with abend code AWBQ.

User response: Check that the program was not started by a transient data trigger level or by a CECI user.

Module: DFHWBBLI

XMEOUT Parameters: *date, time,applid, tranid, {1= , 2= TCPIPSERVICE: }, tcpipservice*

Destination: CWBO

DFHWB0120 *date time applid tranid* **The CICS Web Interface program DFHWBBLI cannot link to program** *program_name***. EIBRESP** *eibresp* **EIBRESP2:** *resp2val***.**{ | *TCPIPSERVICE: }tcpipservice*

Explanation: Program DFHWBBLI used an EXEC CICS LINK but was unable to link to the given program and an EIB response was returned.

System action: The link is abandoned.

User response: Ensure that the program definition is correct.

Module: DFHWBBLI

XMEOUT Parameters: *date, time,applid, tranid, program_name,eibresp, resp2val, {1= ,2= TCPIPSERVICE: }, tcpipservice*

Destination: CWBO

DFHWB0121 *date time applid tranid* **The CICS Web Interface program DFHWBBLI encountered an error during Decode processing in the converter** *program***. Response code:** *respcode***, reason code** *reasoncode***.**{ | *TCPIPSERVICE: }tcpipservice*

Explanation: The Decode function of the converter has returned an error.

System action: An error message is sent to the client.

User response: The response code insert gives the RESPONSE code returned by the converter program. The reason code insert gives the REASON code returned by the converter program.

The values defined by CICS for these fields are defined in copybook DFHWBUCD. The CICS defined values for the RESPONSE code are

0 OK

4 Exception

8 Invalid data supplied

16 Disaster

The CICS defined values for the REASON code are

1 Security failure

2 Corrupt client data

Users can architect their own response and reason code values to be returned by the analyzer, but they should use values other than those defined in the CICS supplied copybook DFHWBUCD.

Examine the response and reason codes returned to determine the cause of the error.

Module: DFHWBBLI

XMEOUT Parameters: *date, time,applid, tranid, program, respcode, reasoncode, {1= , 2=TCPIPSERVICE: }, tcpipservice*

Destination: CWBO

DFHWB0122 *date time applid tranid* **The CICS Web Interface program DFHWBBLI encountered an error during Encode processing in the converter** *program***. Response code:** *respcode***, reason code** *reasoncode***.**{ | *TCPIPSERVICE: }tcpipservice*

Explanation: The Encode function of the converter program has returned an error.

System action: An error message is sent to the client.

User response: The response code insert gives the RESPONSE code returned by the converter program. The reason code insert gives the REASON code returned by the converter program.

The values defined by CICS for these fields are defined in copybook DFHWBUCD. The CICS defined values for the RESPONSE code are

0 OK

4 Exception

8 Invalid data supplied

16 Disaster

The CICS defined values for the REASON code are

1 Security failure

2 Corrupt client data

Users can architect their own response and reason code values to be returned by the analyzer, but they should use values other than those defined in the CICS supplied copybook DFHWBUCD.

Examine the response and reason codes returned to determine the cause of the error.

Module: DFHWBBLI

XMEOUT Parameters: *date, time,applid, tranid, program, respcode, reasoncode, {1= , 2=TCPIPSERVICE: }, tcpipservice*

Destination: CWBO

DFHWB0123 *date time applid tranid* **The CICS Web Interface program DFHWBA1 has detected an error.**{ | *TCPIPSERVICE: }tcpipservice*

Explanation: Program DFHWBA1 has detected an error.

System action: A system dump is taken. The transaction abends with abend code AWBR. Message DFHME0116 should be produced containing the symptom string for this problem.

User response: Examine the diagnostics to determine the reason for the error.

Module: DFHWBA1

XMEOUT Parameters: *date, time,applid, tranid, {1= , 2= TCPIPSERVICE: }, tcpipservice*

Destination: CWBO

DFHWB0124 *date time applid tranid* **The CICS Web Interface program DFHWBA1 has been started incorrectly.**{ | *TCPIPSERVICE: }tcpipservice*

Explanation: Program DFHWBA1 has detected an error while validating initialization information. This probably means that the program has been started incorrectly.

System action: The transaction abends with abend code AWBQ.

User response: Check that the program was not started by a transient data trigger level or by a CECI user.

Module: DFHWBA1

XMEOUT Parameters: *date, time,applid, tranid, {1= , 2= TCPIPSERVICE: }, tcpipservice*

Destination: CWBO

DFHWB0125 *date time applid tranid* **The CICS Web Interface program DFHWBBLI has detected an abend issued by the program** *program.*{ | *TCPIPSERVICE: }tcpipservice*

Explanation: Program DFHWBBLI has detected an abend by the program that was servicing the request.

System action: The alias returns control to the caller.

User response: Examine the diagnostics to determine the reason for the error.

Module: DFHWBBLI

XMEOUT Parameters: *date, time,applid, tranid, program, {1= , 2= TCPIPSERVICE: }, tcpipservice*

Destination: CWBO

DFHWB0126 *date time applid tranid* **The CICS Web Interface program DFHWBBLI has detected an abend issued by Encode in converter program** *program.*{ | *TCPIPSERVICE: }tcpipservice*

Explanation: Program DFHWBBLI has detected an abend by the program that was servicing the request during Encode processing.

System action: The alias returns control to the caller.

User response: Examine the diagnostics to determine the reason for the error.

Module: DFHWBBLI

XMEOUT Parameters: *date, time,applid, tranid, program, {1= , 2= TCPIPSERVICE: }, tcpipservice*

Destination: CWBO

DFHWB0127 *date time applid tranid* **The CICS Web Interface program DFHWBBLI has detected an abend issued by Decode in converter** *program.*{ | *TCPIPSERVICE }tcpipservice*

Explanation: Program DFHWBBLI has detected an abend by the converter that was servicing the request during Decode processing.

System action: The alias returns control to the caller.

User response: Examine the diagnostics to determine the reason for the error.

Module: DFHWBBLI

XMEOUT Parameters: *date, time,applid, tranid, program, {1= , 2= TCPIPSERVICE: }, tcpipservice*

Destination: CWBO

DFHWB0128 *date time applid tranid* **An error has been detected by program** *program.*{ | *TCPIPSERVICE }tcpipservice*

Explanation: Program DFHWBBLI has detected an error.

System action: The alias returns control to the caller.

User response: Examine the diagnostics to determine the reason for the error.

Module: DFHWBBLI

XMEOUT Parameters: *date, time,applid, tranid, program, {1= , 2= TCPIPSERVICE: }, tcpipservice*

Destination: CWBO

DFHWB0130 *date time applid tranid* **No state token passed to program DFHWBLT.**{ | *TCPIPSERVICE: }tcpipservice*

Explanation: Program DFHWBLT was not passed the expected state token.

System action: The transaction abends with code AWC2, and an exception trace entry 410C is written.

User response: You may need further assistance from IBM to resolve this problem. See the *CICS External Interfaces Guide* and Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHWBLT

XMEOUT Parameters: *date, time,applid, tranid, {1= , 2= TCPIPSERVICE: }, tcpipservice*

Destination: CWBO

DFHWB0131 *date time applid tranid* **An error code** *X'code'* **occurred in DFHWBLT while accessing the Web state data for this transaction.**{ | *TCPIPSERVICE: }tcpipservice*

Explanation: The Web Bridge Exit program, DFHWBLT, has detected an error when attempting to access the Web state data held for this transaction.

System action: An exception trace entry is made in the trace table using code X'*code*. The transaction abends with abend code AWC1 if the Bridge Exit was trying to establish a partnership with the CICS Web Interface alias transaction.

User response: Use the error code *code* to determine the reason for the failure

4106 Unable to establish a partnership with the associated CICS Web Interface alias transaction.

4107 A call to terminate the partnership between this instance of DFHWBLT and its associated CICS Web Interface alias transaction failed.

4108 A call to wait for the CICS Web Interface alias transaction associated with this instance of DFHWBLT failed.

4109 A call to reactivate the CICS Web Interface alias transaction associated with this instance of DFHWBLT failed.

4112 A call to update the state data for this transaction failed.

4113 A call to retrieve the state data for this transaction failed.

4114 The alias task associated with this instance of DFHWBLT was not in the required state.

4116 A call to break the partnership between this instance of DFHWBLT and its associated CICS Web Interface alias transaction failed.

411B A call to destroy the state data for this instance of DFHWBLT failed.

The most likely cause of the error is that the timeout interval for the Web state data has been exceeded, and the relevant state data has been deleted. Check that the timeout interval for the state data is set to a suitable value. You may need further assistance from IBM to resolve this problem. See the *CICS External Interfaces Guide* and Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHWBLT

XMEOUT Parameters: *date, time,applid, tranid, X'code', {1= , 2= TCPIPSERVICE: }, tcpipservice*

Destination: CWBO

DFHWB0132 *date time applid tranid* **Program DFHWBLT terminated due to storage problems.**{ | *TCPIPSERVICE: }tcpipservice*

Explanation: A getmain for storage issued by DFHWBLT failed. Without the storage, processing cannot continue.

System action: The transaction abends with code AWC5, and an exception trace entry 410D is written.

User response: If this error occurs repeatedly, you may need to examine the storage setup of your CICS system. Refer to the *CICS Customization Guide* for further information on controlling CICS storage.

Module: DFHWBLT

XMEOUT Parameters: *date, time,applid, tranid, {1= , 2= TCPIPSERVICE: }, tcpipservice*

Destination: CWBO

DFHWB0133 *date time applid tranid* **Error** *X'code'* **occurred during CICS Web 3270 transaction processing.**{ | *TCPIPSERVICE: }tcpipservice*

Explanation: Program DFHWBTTA detected an error when attempting to attach the Web bridge transaction or the Web 3270 Bridge exit program DFHWBLT encountered an internal error.

System action: The transaction returns an internal server error (HTTP response 500) to the HTTP client.

User response: The error code *code* identifies the CICS trace entry that corresponds to the failure. You may determine the transaction identifier of the Web bridge transaction from this entry and its significant characteristics.

Collect the CICS trace output. You may need further assistance from IBM to resolve this problem. See the

CICS External Interfaces Guide and Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHWBTTA, DFHWBLT

XMEOUT Parameters: *date, time,applid, tranid, X'code', {1= , 2= TCPIPSERVICE: }, tcpipservice*

Destination: CWBO

DFHWB0134 *date time applid tranid* **Error** *X'code'* **occurred resolving the AID from HTTP forms data in the CICS Web terminal translation application.**{ | *TCPIPSERVICE }tcpipservice*

Explanation: Program DFHWBTTA is unable to resolve an attention identifier from the HTTP forms data returned from a web browser. DFHWBTTA translates the HTTP forms data into the correct 3270 format required by the CICS terminal-oriented transaction that is the target of this request. The attention identifier or AID is a mandatory part of this format. DFHWBTTA cannot locate a `name=value` pair in the HTTP forms data that adheres to the naming convention defined by the CICS Web Interface to represent an AID, and so cannot return an AID value to the terminal-oriented transaction.

System action: DFHWBTTA returns an internal server error (HTTP response 500) to the HTTP client, and terminates the exchange with the terminal-oriented transaction.

User response: The error code *code* identifies the CICS trace entry that corresponds to the failure. The HTTP forms data is produced as trace data. Collect the CICS trace output. Examine the HTTP forms data to determine what was returned from the web browser. Identify what HTML input type caused the web browser to submit the HTML form. Corruption of the HTTP forms data may be the cause of the problem. You may need further assistance from IBM to resolve this problem. See the *CICS External Interfaces Guide* and Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHWBTTA

XMEOUT Parameters: *date, time,applid, tranid, X'code', {1= , 2= TCPIPSERVICE: }, tcpipservice*

Destination: CWBO

DFHWB0135 *date time applid tranid* **Error** *X'code'* **occurred resolving the next transaction identifier from HTTP forms data in the CICS Web terminal translation application.**{ | *TCPIPSERVICE: }tcpipservice*

Explanation: Program DFHWBTTA is unable to resolve the next transaction identifier from the HTTP forms data returned from a web browser. DFHWBTTA translates the HTTP forms data and extracts the identifier of the next transaction to be executed. DFHWBTTA cannot locate a `name=value` pair in the HTTP forms data that adheres to the naming convention defined by CICS to represent the next transaction identifier and so it cannot determine which terminal-oriented transaction to start.

System action: DFHWBTTA returns an internal server error (HTTP response 500) to the HTTP client.

User response: The error code *code* identifies the CICS trace entry that corresponds to the failure. The HTTP forms data is produced as trace data. Collect the CICS trace output. Examine the HTTP forms data to determine what was returned from the web browser. Corruption of the HTTP forms data may be the cause of the problem. You may need further assistance from IBM to resolve this problem. See the *CICS External Interfaces Guide* and Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHWBTTA

XMEOUT Parameters: *date, time,applid, tranid, X'code', {1= , 2= TCPIPSERVICE: }, tcpipservice*

Destination: CWBO

DFHWB0136 *date time applid tranid* **An error code** *X'code'* **has occurred as a result of the Web State Garbage Collection process.**{ | *TCPIPSERVICE: }tcpipservice*

Explanation: Program DFHWBLT detected an error when attempting to access the Web state data held for this transaction. The transaction wait time has exceeded the garbage collection limit and the state block has been deleted by the garbage collection process.

System action: If the error occurs in DFHWBLT, a TERMERR condition is returned to the application and processing continues. If the error occurs in DFHWBTTA, an error response is sent to the web browser and processing continues.

User response: Use the error code *code* to determine which module received the error

4108 The error occurred in DFHWBLT.

420B The error occurred in DFHWBTTA.

The cause of the error is that the garbage collection interval for the Web state data has been exceeded, and the relevant state data has been deleted. Check that the garbage collection interval for the state data is set to a suitable value. See the *CICS External Interfaces Guide* and Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHWBLT, DFHWBTTA

XMEOUT Parameters: *date, time, applid, tranid, X'code', {1=, 2= TCPIPSERVICE: }, tcpipservice*

Destination: CWBO

DFHWB0137 *date time applid tranid* **An error code** *X'code'* **occurred in DFHWBTTA while accessing the Web state data for this transaction.**{ | *TCPIPSERVICE: }tcpipservice*

Explanation: The Web Terminal Translation Application program, DFHWBTTA, has detected an error when attempting to access the Web state data held for this transaction.

System action: An exception trace entry is made in the trace table using code X'*code*.

User response: Use the error code *code* to determine the reason for the failure

4203 Unable to establish a partnership with the associated CICS Web Interface alias transaction.

4204 Unable to initialize a partnership with the associated CICS Web Interface alias transaction.

4205 The alias task associated with this instance of DFHWBTTA was not in the required state.

4206 A call to create the state data for this instance of DFHWBTTA failed.

4207 A call to destroy the state data for this instance of DFHWBTTA failed.

4208 A call to retrieve the state data for this instance of DFHWBTTA failed.

4209 A call to break the established partnership between the associated transaction and DFHWBTTA has failed.

420A A call to reactivate the CICS Web Interface alias transaction associated with this instance of DFHWBTTA failed.

420B A call to wait for the CICS Web Interface alias transaction associated with this instance of DFHWBTTA failed.

420C A call to terminate the partnership between this instance of DFHWBTTA and its associated CICS Web Interface alias transaction failed.

4213 A call to update the state data for this transaction failed.

The most likely cause of the error is that the timeout interval for the Web state data has been exceeded, and the relevant state data has been deleted. Check that the timeout interval for the state data is set to a suitable value. You may need further assistance from IBM to resolve this problem. See the *CICS External Interfaces Guide* and Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHWBTTA

XMEOUT Parameters: *date, time,applid, tranid, X'code', {1= , 2= TCPIPSERVICE: }, tcpipservice*

Destination: CWBO

DFHWB0150 *date time applid tranid* **The CICS HTML template manager could not locate template** *template_name* **in the HTML template data set.**{ | *TCPIPSERVICE: }tcpipservice*

Explanation: The CICS HTML template manager DFHWBTL could not find template name *template_name* in the HTML data set.

System action: Because 3270 / HTML conversion cannot be performed without the template, CICS returns a TERMERR condition to the application. Message DFHME0116 should be produced containing the symptom string for this problem.

User response: Make sure that the template exists in the template library. See the *CICS External Interfaces Guide* for guidance on how to create HTML templates. Report the details of the symptom string given in message DFHME0116. It will aid problem determination.

Module: DFHWBTC

XMEOUT Parameters: *date, time,applid, tranid, template_name,{1= , 2= TCPIPSERVICE: }, tcpipservice*

Destination: CWBO

DFHWB0151 *date time applid tranid* **The CICS Web Interface 3270 emulation code was unable to process the data it was passed.**{ | *TCPIPSERVICE: }tcpipservice*

Explanation: The CICS Web Interface routine that converts 3270 data streams to HTML, and vice versa, has detected an error. This is probably because it has been passed an invalid 3270 data stream on an EXEC CICS SEND command, or because the web browser has returned some data that it is incapable of handling in response to an EXEC CICS RECEIVE command.

System action: The transaction is abended with code AEIP (INVREQ). There will be subsequent messages from the web state management code as it tidies up for the abending task. Message DFHME0116 should be produced containing the symptom string for this problem.

User response: Use CEDX or trace to look at the data that was in error and then correct the sending application. Report the details of the symptom string given in message DFHME0116. It will aid problem determination.

Module: DFHWBTC

XMEOUT Parameters: *date, time, applid, tranid, {1=, 2=*

TCPIPSERVICE: }, tcpipservice

Destination: CWBO

DFHWB0152E *date time applid client_ip_addr tcpipservice* **The request receiver SOCB notify gate is unable to attach transaction** *transaction***.**

Explanation: The socket domain received a request for a TCPIP service which specified PROTOCOL HTTP, USER or ISC. However, the socket notify gate in module DFHWBSO was unable to attach the transaction specified in the TCPIP service definition.

System action: Exception trace point 0B07 is issued.

User response: Check the definitions in the TCPIP service and the specified transaction.

Module: DFHWBSO

XMEOUT Parameters: *date, time,applid, client_ip_addr, tcpipservice, transaction*

Destination: CWBO

DFHWB0153E *date time applid client_ip_addr tcpipservice* **The web asynchronous socket receive failed with an IO error.**

Explanation: The Web socket notify gate was driven with an action code of ERROR because an outstanding asynchronous socket receive request ended with an IO error.

System action: Exception trace point 0B05 is issued. The socket is closed and the request is terminated.

User response: Determine why an IO error occurred on this port.

Module: DFHWBSO

XMEOUT Parameters: *date, time,applid, client_ip_addr, tcpipservice*

Destination: CWBO

DFHWB0154E *date time applid client_ip_addr tcpipservice* **The request receiver SOCB notify gate is unable to obtain storage.**

Explanation: The socket domain received a request for a TCPIP service which specified PROTOCOL(ISC). However, the socket notify gate in module DFHWBSO was unable to obtain storage. This is because a short-on-storage (SOS) condition has caused the failure of a GETMAIN.

System action: Exception trace point 0B09 is issued.

User response: Investigate the reason for the SOS condition. See the *CICS Problem Determination Guide* for guidance on dealing with the SOS condition.

Retry the request later.

Module: DFHWBSO

XMEOUT Parameters: *date, time,applid, client_ip_addr, tcpipservice*

Destination: CWBO

DFHWB0360 *date time applid* **An attempt to establish security for userid** *userid* **has failed. Transaction** *tranid* **cannot be started. SAF codes are (***X'safresp'***,***X'safreas'***). ESM codes are (***X'esmresp'***,***X'esmreas'***). Host IP address** *hostaddr***. Client IP address:** *clientaddr***. TCPIPSERVICE** *tcpipservice***.**

Explanation: An attempt was made to establish security for userid *userid* but it was rejected by the external security manager (ESM).

In order to start transaction *tranid* CICS Web attach processing requires security to be established for userid *userid*, as selected for this transaction by the Analyzer URM specified for TCPIPSERVICE *tcpipservice*

System action: Security has not been established for the userid. The attempt to start the transaction has failed.

User response: The response and reason codes (*safresp* and *safreas*) returned by the system authorization facility (SAF), and the response and reason codes (*esmresp* and *esmreas*) returned by the external security manager (ESM) are those issued by the RACROUTE REQUEST=VERIFY or RACROUTE REQUEST=EXTRACT macros. These return codes are described in the *z/OS MVS Programming: Assembler Services Guide*, and in *z/OS Security Server RACROUTE Macro Reference*. See these manuals for an explanation of the codes.

There may be further messages produced by CICS or the external security manager (ESM) which provide more information.

Module: DFHWBXM

XMEOUT Parameters: *date, time, applid, userid, tranid, X'safresp', X'safreas', X'esmresp', X'esmreas', hostaddr, clientaddr, tcpipservice*

Destination: CWBO

DFHWB0361 *date time applid* **An attempt to attach a CICS Web alias transaction for userid** *userid* **has failed because the user is not authorized to execute transaction** *tranid***. Host IP address** *hostaddr***. Client IP address:** *clientaddr***. TCPIPSERVICE** *tcpipservice***.**

Explanation: An attempt was made to start transaction *tranid* by userid *userid* but it was rejected.

CICS Web attach processing could not start transid *tranid* processing because userid *userid* is not authorized

to execute transaction *tranid*, which was selected for this HTTP Request by the Analyzer URM specified for TCPIPSERVICE *tcpipservice*

System action: The attach for transaction *tranid* fails, then processing continues.

User response: Either determine why the Analyzer URM selected transaction *tranid*, or modify the Analyzer URM to select an authorized transaction identifier.

Module: DFHWBXM

XMEOUT Parameters: *date, time,applid, userid, tranid, hostaddr, clientaddr, tcpipservice*

Destination: CWBO

DFHWB0362 *date time applid* **CICS Web alias transaction** *tranid* **could not be started due to an unexpected error. Host IP address:** *hostaddr***. Client IP address:** *clientaddr***. TCPIPSERVICE:** *tcpipservice***.**

Explanation: An attempt was made to start transaction *tranid* but the attach failed due to an unexpected error.

CICS Web attach processing could not start transid *tranid* processing due to an unexpected error.

System action: The attach for transaction *tranid* fails, then processing continues.

User response: you may need further assistance from IBM to resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHWBXM

XMEOUT Parameters: *date, time,applid, tranid, hostaddr, clientaddr, tcpipservice*

Destination: CWBO

DFHWB0363 *date time applid tranid* **A client certificate that maps to a valid userid is required. Host IP address:** *hostaddr***. Client IP address:** *clientaddr***. TCPIPSERVICE:** *tcpipservice***.**

Explanation: The client at IP address *clientaddr* has tried to connect to CICS on a TCPIPSERVICE that has the option AUTHENTICATE(CERTIFICATE), but the client has not provided a client certificate that maps to a valid userid in the external security manager. This may be for one of the following reasons

- The client has not provided any certificate
- The client's certificate is not installed in the external security manager's database
- The client's certificate is not marked as TRUSTED in the external security manager's database

System action: The connection is rejected with an HTTP 403 (forbidden) response.

User response: Ensure that the client has a valid certificate. Install the certificate in the external security manager with the TRUSTED attribute and mapping to a valid userid. If the security manager is the IBM Security Server for z/OS (RACF), this can be done with the RACDCERT command, or by using a TCPIPSERVICE defined with AUTHENTICATE(AUTOMATIC).

Module: DFHWBXN

XMEOUT Parameters: *date, time, applid, tranid, hostaddr, clientaddr, tcpipservice*

Destination: CWBO

DFHWB0364 *date time applid* **An attempt to establish security for userid** *userid* **has failed. The requested static response cannot be returned. SAF codes are (***X'safresp'***,***X'safreas'***). ESM codes are (***X'esmresp'***,***X'esmreas'***). Host IP address:** *hostaddr***. Client IP address:** *clientaddr***. TCPIPSERVICE:** *tcpipservice***.**

Explanation: An attempt was made to establish security for userid *userid* but it was rejected by the external security manager (ESM).

In order to return the requested static response CICS Web processing requires security to be established for userid *userid*.

System action: Security has not been established for the userid. The requested static response cannot be returned.

User response: The response and reason codes (*safresp* and *safreas*) returned by the system authorization facility (SAF), and the response and reason codes (*esmresp* and *esmreas*) returned by the external security manager (ESM) are those issued by the RACROUTE REQUEST=VERIFY or RACROUTE REQUEST=EXTRACT macros. These return codes are described in the *z/OS MVS Programming: Authorized Assembler Services Guide*, and in *External Security Interface (RACROUTE) Macro Reference for MVS*.

There may be further messages produced by CICS or the external security manager (ESM) which provide more information.

Module: DFHWBSR

XMEOUT Parameters: *date, time,applid, userid, X'safresp', X'safreas', X'esmresp', X'esmreas', hostaddr, clientaddr, tcpipservice*

Destination: CWBO

DFHWB0500I *date time applid tranid* **CICS Web Interface enable processing is complete. Host IP address:** *hostaddr***.**

Explanation: The enable process has completed successfully.

System action: Processing continues.

User response: None.

Module: DFHWBM

XMEOUT Parameters: *date, time,applid, tranid, hostaddr*

Destination: Console and Transient Data Queue CWBO

DFHWB0551 *date time applid tranid* **The CICS Web Interface server controller detected an abend ACN1 processing a request from client** *clientaddr***. Host IP address:** *hostaddr***.**

Explanation: The HTTP caller detected an error after invoking program DFHCCNV to perform data conversion on incoming data.

System action: If there is no DFHCNV table defined, the CICS Web Interface cannot perform data conversion on incoming data. An exception disable of the CICS Web Interface is initiated. Message DFHME0116 should be produced containing the symptom string for this problem.

User response: Ensure that there is a valid DFHCNV table link-edited into one of the libraries in the DFHRPL library concatenation.

Module: DFHWBM

XMEOUT Parameters: *date, time,applid, tranid, clientaddr, hostaddr*

Destination: CWBO

DFHWB0723 *date time applid tranid* **The CICS Web analyzer program returned an error response. Program name:** *progname***. RESPONSE** *response***. REASON:** *reason***. Host IP address:** *hostaddr***. Client IP address:** *clientaddr***.{** | *TCPIPSERVICE: }tcpipservice*

Explanation: As part of its normal processing of a request, CICS Web attach processing invokes the user replaceable analyzer to tailor the required actions. This program returns RESPONSE and REASON values. If a CICS supplied sample analyzer is being used, possible RESPONSE code values are

0 OK

4 Exception

8 Invalid

12. Disaster

possible REASON code values are

1 URL of incoming HTTP request is too short

2 No "/" character in the URI of the HTTP request

3. There is more data to be received for this request

4 Converter program name is less than 1 or greater than 8 bytes long

5 Alias transaction ID is less than 1 or greater than 4 bytes long

6 Server program name is less than 1 or greater than 8 bytes long

7 User token passed as query string data on this request is not valid

8 URL passed on this request is not valid

Users can also architect their own response and reason code values to be returned by the analyzer, but they should use values other than those defined in the CICS supplied copybook DFHWBUCD.

If the host IP address and the client IP address are not available when this error occurred, these addresses will be displayed as "UNKNOWN" in the message.

System action: An error response is sent to the client and processing of the request is terminated.

User response: Examine the RESPONSE and REASON code values in the message to determine the cause of the error.

Module: DFHWBXN

XMEOUT Parameters: *date, time,applid, tranid, progname, response, reason, hostaddr, clientaddr, {1= , 2= TCPIPSERVICE: }, tcpipservice*

Destination: CWBO

DFHWB0724 *date time applid tranid* **CICS Web attach processing detected an error linking to the codepage conversion module DFHCCNV. Host IP address:** *hostaddr***. Client IP address:** *clientaddr***.{** | *TCPIPSERVICE: }tcpipservice*

Explanation: An error linking to program DFHCCNV has forced CICS Web attach processing to abandon a client request. If the host IP address and the client IP address are not available when this error occurred, these addresses will be displayed as "UNKNOWN".

System action: A system dump is taken. An error response is sent to the client and the request is terminated. Message DFHME0116 should be produced containing the symptom string for this problem.

User response: You may need further assistance from IBM to resolve this problem. See the *CICS External Interfaces Guide* and Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed. Report the details of the symptom string given in message DFHME0116. It will aid problem determination.

Module: DFHWBXN

XMEOUT Parameters: *date, time,applid, tranid, hostaddr, clientaddr, {1= , 2= TCPIPSERVICE: }, tcpipservice*

Destination: CWBO

DFHWB0725 *date time applid tranid* **CICS Web attach processing detected an error linking to the analyzer user replaceable module** *progname***. Host IP address:** *hostaddr***. Client IP address:** *clientaddr*.**{** | *TCPIPSERVICE: }tcpipservice*

Explanation: An error linking to the analyzer user replaceable module forced CICS Web attach processing to abandon a client request. If the host IP address and the client IP address are not available when this error occurred, these addresses will be displayed as "UNKNOWN".

System action: An error response is sent to the client and the request is terminated. The tcpipservice remains open but unusable.

User response: Ensure that the program specified has been correctly installed and defined to CICS. If the user replaceable module (URM) has been set dynamically using CEMT or the SPI command, then ensure that the module is defined to CICS and enabled, or available in the library if autoinstall is active.

Module: DFHWBXN

XMEOUT Parameters: *date, time,applid, tranid, progname, hostaddr, clientaddr, {1= , 2=TCPIPSERVICE: }, tcpipservice*

Destination: CWBO

DFHWB0726 *date time applid tranid* **CICS Web attach processing cannot link to the analyzer user replaceable program. No analyzer specified. Host IP address:** *hostaddr***. Client IP address:** *clientaddr*.**{** | *TCPIPSERVICE: }tcpipservice*

Explanation: CICS Web attach processing cannot invoke the analyzer user replaceable module because none was specified for the TCPIPSERVICE associated with the request being processed. If the host IP address and the client IP address are not available when this error occurred, these addresses will be displayed as "UNKNOWN".

System action: An error response is sent to the client and the request is terminated. Message DFHME0116 should be produced containing the symptom string for this problem.

User response: Use CEMT SET TCPIPSERVICE to specify an analyzer name on the URM parameter. CEDA can be used to alter the stored definitions. The URM name for CICS Web TCPIPSERVICEs (those TCPIPSERVICEs which have CWXN specified as the transaction ID) MUST specify a valid analyzer program name for the URM keyword.

Module: DFHWBXN

XMEOUT Parameters: *date, time,applid, tranid, hostaddr, clientaddr, {1= , 2= TCPIPSERVICE: }, tcpipservice*

Destination: CWBO

DFHWB0727 *date time applid tranid* **CICS Web Interface attach processing could not attach the requested alias transaction** *tranid***. Userid:** *userid***. Host IP address:** *hostaddr***. Client IP address:** *clientaddr*.**{** | *TCPIPSERVICE: }tcpipservice*

Explanation: Web attach processing could not attach a new task with the requested alias transaction ID *tranid*. An error response is sent to the client and processing of the request is terminated with abend code AWB2. If the host IP address and the client IP address are not available when this error occurred, these addresses will be displayed as "UNKNOWN".

User response: Ensure that the alias transaction ID supplied by the analyzer user replaceable program has been defined to CICS.

Module: DFHWBXN

XMEOUT Parameters: *date, time,applid, tranid, tranid, userid, hostaddr, clientaddr, {1= , 2= TCPIPSERVICE: }, tcpipservice*

Destination: CWBO

DFHWB0728 *date time applid tranid* **CICS Web attach processing detected a storage error within the Web receive module DFHWBSR. Host IP address:** *hostaddr***. Client IP address:** *clientaddr*.**{** | *TCPIPSERVICE: }tcpipservice*

Explanation: A storage error in program DFHWBSR has forced CICS Web attach processing to abandon a client request. If the host IP address and the client IP address are not available when this error occurred, these addresses will be displayed as "UNKNOWN."

System action: An error response is sent to the client and the request is terminated.

User response: The most probable cause of this error is there being insufficient storage to process the client request. This failure may indicate that you need to increase the size limits of the EDSAs. EDSA storage

limits are specified by the EDSALIM system initialization parameter. See the *CICS System Definition Guide* for more guidance on EDSALIM.

Module: DFHWBXN

XMEOUT Parameters: *date, time,applid, tranid, hostaddr, clientaddr, {1= , 2= TCPIPSERVICE: }, tcpipservice*

Destination: CWBO

DFHWB0729 *date time applid tranid* **CICS Web attach processing detected an abend in the analyzer user replaceable module** *progname***. Host IP address:** *hostaddr***. Client IP address** *clientaddr***.{ | }***TCPIPSERVICE: tcpipservice*

Explanation: An abend in the analyzer user replaceable module forced CICS Web attach processing to abandon a client request. If the host IP address and the client IP address are not available when this error occurred, these addresses will be displayed as "UNKNOWN".

System action: An error response is sent to the client and the request is terminated.

User response: Ensure that the program specified is correct.

Module: DFHWBXN

XMEOUT Parameters: *date, time,applid, tranid, progname, hostaddr, clientaddr, {1= , 2=TCPIPSERVICE: }, tcpipservice*

Destination: CWBO

DFHWB0730 *date time applid tranid* **CICS Web attach processing encountered an internal error while processing a client request. Host IP address:** *hostaddr* **Client IP address:** *clientaddr***.{ | }***TCPIPSERVICE: tcpipservice*

Explanation: An internal error has forced CICS Web processing to abandon a client request. If the host IP address and the client IP address are not available when this error occurred, these addresses will be displayed as "UNKNOWN."

System action: A system dump is taken. An error response is sent to the client and the request is terminated. Message DFHME0116 should be produced containing the symptom string for this problem.

User response: You may need further assistance from IBM to resolve this problem. See the *CICS External Interfaces Guide* and Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed. Report the details of the symptom string given in message DFHME0116. It will aid problem determination.

Module: DFHWBXN

XMEOUT Parameters: *date, time,applid, tranid, hostaddr, clientaddr, {1= , 2= TCPIPSERVICE: }, tcpipservice*

Destination: CWBO

DFHWB0731 *date time applid tranid* **CICS Web attach processing detected an HTTP header longer than 32767 bytes. Host IP address** *hostaddr***. Client IP address:** *clientaddr***.{ | }***TCPIPSERVICE: tcpipservice*

Explanation: An HTTP request was being received by DFHWBSR when it detected that the header data of the request exceeded the currently supported maximum of 32767 bytes. If the host IP address and the client IP address are not available when this error occurred, these addresses will be displayed as "UNKNOWN".

System action: Trace entry 0418 is issued containing the web request block. The length of the HTTP header data can be inferred from the user_data_offset field.

User response: Examine the input HTTP request and reduce the length of the header information to be within the allowed limit. See the *CICS External Interfaces Guide* and Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHWBXN

XMEOUT Parameters: *date, time,applid, tranid, hostaddr, clientaddr, {1= , 2= TCPIPSERVICE: }, tcpipservice*

Destination: CWBO

DFHWB0732 *date time applid tranid* **CICS Web attach processing encountered a sockets I/O error while receiving a client request. Host IP address:** *hostaddr***. Client IP address:** *clientaddr***.{ | }***TCPIPSERVICE: tcpipservice*

Explanation: A sockets I/O error has forced CICS Web processing to abandon a client request. If the host IP address and the client IP address are not available when this error occurred, these addresses will be displayed as "UNKNOWN".

System action: The Web error program DFHWBEP is driven, but no error response can be sent to the client. The request is terminated.

User response: Check for any associated sockets domain error messages, which may give more details on the error which has occurred. The error may have been caused by a user terminating their Web Browser before CICS has been able to process the request. If the problem persists, there may be a problem with the TCP/IP network. See the *CICS External Interfaces Guide* and Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHWBXN

XMEOUT Parameters: *date, time,applid, tranid, hostaddr, clientaddr, {1= , 2= TCPIPSERVICE: }, tcpipservice*

Destination: CWBO

DFHWB0733 *date time applid tranid* **CICS Web attach processing failed because there were no available SSL TCBs. Host IP address:** *hostaddr***. Client IP address:** *clientaddr***.{** | *TCPIPSERVICE: }tcpipservice*

Explanation: A Secure Sockets Layer connection from a client with address *ipaddr* was received on TCPIPSERVICE(*service*), but there were no available TCBs to process the request.

System action: The socket for the connection is closed. No message is sent to the client because the client expects the response to be encrypted by SSL, but SSL services cannot be provided.

User response: If this message occurs frequently, consider raising the value of the MAXSSLTCBS system initialization parameter. See the *CICS External Interfaces Guide* and Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHWBXN

XMEOUT Parameters: *date, time,applid, tranid, hostaddr, clientaddr, {1= , 2= TCPIPSERVICE: }, tcpipservice*

Destination: CWBO

DFHWB0734 *date time applid tranid* **CICS Web attach processing failed because the SSL handshake with the client has failed. Host IP address** *hostaddr***. Client IP address:** *clientaddr***.{** | *TCPIPSERVICE: }tcpipservice*

Explanation: A Secure Sockets Layer connection from a client with address *ipaddr* was received on TCPIPSERVICE(*service*), but the SSL handshake failed.

System action: The socket for the connection is closed. No message is sent to the client because the client expects the response to be encrypted by SSL, but SSL services cannot be provided. The reason for the handshake failure may be displayed in an earlier DFHSO0123 message.

User response: If the DFHSO0123 message indicates a CICS configuration error, correct it. Otherwise, the problem is likely to be a client error, and can be ignored. See the *CICS External Interfaces Guide* and Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHWBXN

XMEOUT Parameters: *date, time,applid, tranid, hostaddr, clientaddr, {1= , 2= TCPIPSERVICE: }, tcpipservice*

Destination: CWBO

DFHWB0736 *date time applid tranid* **The method in the received HTTP request is not implemented by the server. Host IP address:** *hostaddr***. Client IP address:** *clientaddr***. TCPIPSERVICE** *tcpipservice***.**

Explanation: As part of its normal processing of a request, CICS Web Support checks the supplied method with the HTTP version of the request and the version of HTTP supported by the server. The HTTP version supported by CICS depends on the version that the server application is running at. CICS may also report this error if the method is valid but any of the supplied headers are incorrect, as this means that CICS cannot implement the method.

System action: An error response is sent to the client and processing of the request is terminated.

User response: Correct the method in the request to one supported by the version of HTTP being used and the version that the server application is capable of running at. The version of the server is that supplied on the HTTP response. If the method is correct, check that all the headers supplied in the request are correct.

Module: DFHWBXN

XMEOUT Parameters: *date, time,applid, tranid, hostaddr, clientaddr, tcpipservice*

Destination: CWBO

DFHWB0737 *date time applid tranid* **CICS Web support has detected that the version of the incoming HTTP request is higher than the version that CICS supports. Host IP address:** *hostaddr***. Client IP address** *clientaddr***. TCPIPSERVICE:** *tcpipservice***.**

Explanation: As part of its normal processing of a request, CICS Web Support checks the version of the incoming HTTP request. If it is higher than the version CICS supports and the method is not recognised the request is rejected.

System action: An error response is sent to the client and processing of the request is terminated.

User response: Examine the version in the HTTP response to determine the HTTP version that is supported.

Module: DFHWBXN

XMEOUT Parameters: *date, time,applid, tranid, hostaddr, clientaddr, tcpipservice*

Destination: CWBO

DFHWB0738 *date time applid tranid* **CICS Web Support has detected that the incoming HTTP request has a version that is at least HTTP/1.1 but has no host header. Host IP address:** *hostaddr***. Client IP address:**

clientaddr. **TCPIPSERVICE:** *tcpipservice*.

Explanation: As part of its normal processing of a request, CICS Web Support checks the version of the incoming HTTP request. If it is at least HTTP/1.1 and there is no host header, the request is rejected as it is not compliant.

System action: An error response is sent to the client and processing of the request is terminated.

User response: Issue the request again after adding a host header.

Module: DFHWBXN

XMEOUT Parameters: *date, time,applid, tranid, hostaddr, clientaddr, tcpipservice*

Destination: CWBO

DFHWB0739 *date time applid tranid* **An invalid EXPECT header has been received. Client IP address:** *clientaddr*. **TCPIPSERVICE** *tcpipservice*

Explanation: While processing an EXPECT header CICS has detected that the value is not 100-continue.

System action: The request is rejected with a HTTP/1.1 status of 417 Expectation Failed.

User response: Correct the HTTP/1.1 Client.

Module: DFHWBXN

XMEOUT Parameters: *date, time,applid, tranid, clientaddr, tcpipservice*

Destination: CWBO

DFHWB0740 *date time applid tranid* **An HTTP/1.0 client has sent an EXPECT header which is not supported. Client IP address:** *clientaddr*. **TCPIPSERVICE:** *tcpipservice*

Explanation: While processing an EXPECT header CICS has detected that the client is not using HTTP version 1.1.

System action: The request is rejected with an HTTP/1.0 status code of 400 Bad Request.

User response: Correct the HTTP Client.

Module: DFHWBXN

XMEOUT Parameters: *date, time,applid, tranid, clientaddr, tcpipservice*

Destination: CWBO

DFHWB0741 *date time applid tranid* **An HTTP socket receive request has timed out. Client IP address:** *clientaddr*. **TCPIPSERVICE** *tcpipservice*

Explanation: There are two possible reasons for this message

- CICS has timed out while receiving data from the client.
- CICS has sent a 100 Continue header in response to an EXPECT: header however the request has timed out before the client has sent the message body.

System action: The possible causes are

- The value of the SOCKECTCLOSE parameter on the TCPIPSERVICE is too low
- The client has sent an incorrect Content-Length header
- The client has not sent the body of the request

User response: Possible solutions are

- Increase the value of the SOCKETCLOSE parameter on the TCPIPSERVICE.
- Correct the HTTP Client.

Module: DFHWBXN

XMEOUT Parameters: *date, time,applid, tranid, clientaddr, tcpipservice*

Destination: CWBO

DFHWB0742 *date time applid tranid* **Conversion of HTTP header failed. Host IP address:** *hostaddr*. **Client IP address:** *clientaddr*.*{ | TCPIPSERVICE: }tcpipservice*

Explanation: The conversion of the inbound HTTP header has failed and this has caused CICS Web processing to abandon the request. If the host IP address and the client IP address are not available when this error occurred, these addresses will be displayed as "UNKNOWN".

System action: An exception entry is made in the trace table. An error response is sent to the client and the request is terminated. Message DFHME0116 should be produced containing the symptom string for this problem.

User response: The exception trace entry may help you to determine the cause of the error. If not you may need further assistance from IBM to resolve this problem. See the *CICS External Interfaces Guide* and Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed. Report the details of the symptom string given in message DFHME0116. It will aid problem determination.

Module: DFHWBXN

XMEOUT Parameters: *date, time,applid, tranid, hostaddr, clientaddr, {1= , 2= TCPIPSERVICE: }, tcpipservice*

Destination: CWBO

DFHWB0743 *date time applid tranid* **The CICS Web characterset codepage is invalid. Host IP address:** *hostaddr***. Client IP address** *clientaddr***.{ \| TCPIPSERVICE: }***tcpipservice*

Explanation: The CICS Web characterset codepage is invalid and this has caused CICS Web processing to abandon the request. If the host IP address and the client IP address are not available when this error occurred, these addresses will be displayed as "UNKNOWN".

System action: An exception entry is made in the trace table. An error response is sent to the client and the request is terminated. Message DFHME0116 should be produced containing the symptom string for this problem.

User response: The exception trace may help you to determine the cause of the error. If not you may need further assistance from IBM to resolve this problem. See the *CICS External Interfaces Guide* and Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed. Report the details of the symptom string given in message DFHME0116. It will aid problem determination.

Module: DFHWBXN

XMEOUT Parameters: *date, time,applid, tranid, hostaddr, clientaddr, {1= , 2= TCPIPSERVICE: }, tcpipservice*

Destination: CWBO

DFHWB0744 *date time applid tranid* **The CICS Web host codepage is invalid. Host IP address:** *hostaddr***. Client IP address** *clientaddr***.{ \| TCPIPSERVICE: }***tcpipservice*

Explanation: The CICS Web host codepage is invalid and this has caused CICS Web processing to abandon the request. If the host IP address and the client IP address are not available when this error occurred, these addresses will be displayed as "UNKNOWN".

System action: An exception entry is made in the trace table. An error response is sent to the client and the request is terminated. Message DFHME0116 should be produced containing the symptom string for this problem.

User response: The exception trace may help you to determine the cause of the error. If not you may need further assistance from IBM to resolve this problem. See the *CICS External Interfaces Guide* and Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed. Report the details of the symptom string given in message DFHME0116. It will aid problem determination.

Module: DFHWBXN

XMEOUT Parameters: *date, time,applid, tranid, hostaddr, clientaddr, {1= , 2= TCPIPSERVICE: }, tcpipservice*

Destination: CWBO

DFHWB0745 *date time applid tranid* **Conversion of user data failed. Host IP address:** *hostaddr***. Client IP address:** *clientaddr***.{ \| TCPIPSERVICE: }***tcpipservice*

Explanation: The conversion of the inbound user data has failed and this has caused CICS Web processing to abandon the request. If the host IP address and the client IP address are not available when this error occurred, these addresses will be displayed as "UNKNOWN".

System action: An exception entry is made in the trace table. An error response is sent to the client and the request is terminated. Message DFHME0116 should be produced containing the symptom string for this problem.

User response: The exception trace entry may help you to determine the cause of the error. If not you may need further assistance from IBM to resolve this problem. See the *CICS External Interfaces Guide* and Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed. Report the details of the symptom string given in message DFHME0116. It will aid problem determination.

Module: DFHWBXN

XMEOUT Parameters: *date, time,applid, tranid, hostaddr, clientaddr, {1= , 2= TCPIPSERVICE: }, tcpipservice*

Destination: CWBO

DFHWB0746 *date time applid tranid* **The maximum length of data that can be received has been exceeded. Client IP address:** *clientaddr***. TCPIPSERVICE:** *tcpipservice*

Explanation: The amount of data transmitted by a client has exceeded the limit defined on the tcpipservice.

System action: The request is rejected

User response: There are two possible causes

- The value of the MAXDATALEN parameter on the TCPIPSERVICE is too low
- There is an error in the client

There are two possible solutions

- Increase the value of the MAXDATALEN parameter on the TCPIPSERVICE.
- Correct the HTTP Client.

Module: DFHWBXN

XMEOUT Parameters: *date, time,applid, tranid, clientaddr, tcpipservice*

Destination: CWBO

DFHWB0747 *date time applid tranid* **A Content-Length and Transfer-Encoding conflict has been detected. Client IP address** *clientaddr***. TCPIPSERVICE:** *tcpipservice*

Explanation: The Client has sent a request that contains a Content-Length header as well as a Transfer-Encoding header.

System action: The request is rejected.

User response: Correct the client

Module: DFHWBXN

XMEOUT Parameters: *date, time,applid, tranid, clientaddr, tcpipservice*

Destination: CWBO

DFHWB0748 *date time applid tranid* **An invalid Chunk Size header has been received. Client IP address:** *clientaddr***. TCPIPSERVICE** *tcpipservice*

Explanation: The Client has sent a request that contains a an invalid chunk size header. Valid values are 0 - 9, A - F with a maximum of 8 characters.

System action: The request is rejected.

User response: Correct the client

Module: DFHWBXN

XMEOUT Parameters: *date, time,applid, tranid, clientaddr, tcpipservice*

Destination: CWBO

DFHWB0749 *date time applid tranid* **An invalid Trailer has been received. Client IP address:** *clientaddr***. TCPIPSERVICE** *tcpipservice*

Explanation: The request contains a Trailer that exceeds 32767 bytes in length.

System action: The request is rejected.

User response: Correct the client

Module: DFHWBXN

XMEOUT Parameters: *date, time,applid, tranid, clientaddr, tcpipservice*

Destination: CWBO

DFHWB0750 *date time applid tranid* **HTTP warning request header received. Warning:** *warnvalue***. Host IP address:** *hostaddr***. Client IP address:** *clientaddr***. TCPIPSERVICE** *tcpipservice***.**

Explanation: A warning header has been received on an incoming HTTP request, by CICS Web support. The contents are written in this message for audit purposes.

System action: Processing for the request continues normally.

User response: Examine the warning to determine if action is required.

Module: DFHWBXN

XMEOUT Parameters: *date, time,applid, tranid, warnvalue, hostaddr, clientaddr, tcpipservice*

Destination: CWBW

DFHWB0751 *date time applid tranid* **A precondition specified by an If-Unmodified-Since header has failed. Client IP address:** *clientaddr***. TCPIPSERVICE:** *tcpipservice***.**

Explanation: The request contains an If-Unmodified-Since header and the precondition has failed. If CICS is returning dynamic content, or is returning static content which is a document template, it is assumed that any If-Unmodified-Since precondition can never be met.

System action: The request is rejected with a HTTP/1.1 412 response.

User response: None

Module: DFHWBXN

XMEOUT Parameters: *date, time,applid, tranid, clientaddr, tcpipservice*

Destination: CWBO

DFHWB0752 *date time applid tranid* **HTTP Warning response header received. Warning:** *warnvalue* **Client IP address:** *clientaddr* **Server IP address:** *serveraddr***.**

Explanation: A warning header has been received in response to an HTTP request sent by CICS as a client. The contents are written in this message for audit purposes.

System action: Processing for the request continues normally.

User response: Examine the warning to determine if any action is required.

Module: DFHWBCL

XMEOUT Parameters: *date, time,applid, tranid, warnvalue, clientaddr, serveraddr*

Destination: CWBW

DFHWB0753 *date time applid* **Transaction** *tranid* **chunked request incomplete. Session token:** *X'sesstoken'***.**

Explanation: The transaction has terminated with an incomplete chunked request sent by CICS as a client.

System action: End of transaction processing continues normally.

User response: Examine the warning to determine if any action is required.

Module: DFHWBCL

XMEOUT Parameters: *date, time,applid, tranid, X'sesstoken'*

Destination: CWBO

DFHWB0754 *date time applid tranid* **An invalid Chunk has been received. Client IP address:** *clientaddr***. TCPIPSERVICE** *tcpipservice*

Explanation: The client has sent a chunk request but the chunk has not been terminated with the expected CRLF characters.

System action: The request is rejected.

User response: Correct the client.

Module: DFHWBXN

XMEOUT Parameters: *date, time,applid, tranid, clientaddr, tcpipservice*

Destination: CWBO

DFHWB0756 *date time applid tranid* **The host on the received HTTP request is invalid. Client IP address:** *clientaddr***. TCPIPSERVICE:** *tcpipservice*

Explanation: The host on the HTTP request received by CICS is invalid.

System action: The request is rejected.

User response: Correct the client.

Module: DFHWBXN

XMEOUT Parameters: *date, time,applid, tranid, clientaddr, tcpipservice*

Destination: CWBO

DFHWB0757 *date time applid tranid* **A precondition specified by an If-Modified-Since header has failed. Client IP address:** *clientaddr***. TCPIPSERVICE:** *tcpipservice***.**

Explanation: The request contains an If-Modified-Since header and the precondition has failed. CICS only checks the precondition specified by an If-Modified-Since header when delivering a static response. For a dynamic response it is assumed that the precondition is satisfied.

System action: The request is rejected with a HTTP/1.1 304 response.

User response: None required.

XMEOUT Parameters: *date, time,applid, tranid, clientaddr, tcpipservice*

DFHWB0758 *date time applid tranid* **An attempt to access static data** *data* **has failed because the transaction user does not have READ access to the resource. Client IP address:** *clientaddr* **TCPIPSERVICE:** *tcpipservice***.**

Explanation: The transaction user does not have READ access to the CICS document template or HFS file identified by *data*.

System action: The request is rejected with a HTTP/1.1 403 response.

User response: Contact your security administrator to obtain authorization for the required resource for your user ID.

Module: DFHWBXN

XMEOUT Parameters: *date, time,applid, tranid, data, clientaddr, tcpipservice*

Destination: CWBO

DFHWB0759 *date time applid tranid* **An attempt to access static data** *data* **has failed because the resource is not found. Client IP address:** *clientaddr* **TCPIPSERVICE:** *tcpipservice***.**

Explanation: The CICS document template or HFS file identified by *data* cannot be found.

System action: The request is rejected with a HTTP/1.1 404 response.

User response: Ensure that the required resources are defined and installed.

Module: DFHWBXN

XMEOUT Parameters: *date, time,applid, tranid, data, clientaddr, tcpipservice*

Destination: CWBO

DFHWB0760 *date time applid tranid* **An attempt to read HFS file** *filename* **has failed. Client IP address:** *clientaddr***. TCPIPSERVICE:** *tcpipservice***.**

Explanation: An authorized user has failed to read HFS file *filename*.

System action: An exception entry is made in the trace table. A system dump is taken, unless you have specifically suppressed dumps in the dump table.

The request is rejected with a HTTP/1.1 500 response.

User response: Collect the trace records and possible dumps and contact your IBM support center.

Module: DFHWBXN

XMEOUT Parameters: *date, time,applid, tranid, filename, clientaddr, tcpipservice*

Destination: CWBO

DFHWB0761 *date time applid tranid* **An attempt to send a static response has failed due to an internal error. Client IP address** *clientaddr* **TCPIPSERVICE:** *tcpipservice***.**

Explanation: The user has failed to send a static response due to an internal error.

System action: An exception entry is made in the trace table. A system dump is taken, unless you have specifically suppressed dumps in the dump table.

The request is rejected with a HTTP/1.1 500 response.

User response: Collect the trace records and possible dumps and contact your IBM support center.

Module: DFHWBXN

XMEOUT Parameters: *date, time,applid, tranid, clientaddr, tcpipservice*

Destination: CWBO

DFHWB0762 *date time applid tranid* **The received HTTP request specifies the OPTIONS method but cannot be handled by CICS. Status code** *statuscode***. Host IP address:** *hostaddr***. Client IP address:** *clientaddr***. TCPIPSERVICE:** *tcpipservice***.**

Explanation: As part of its normal processing of a request, CICS Web Support checks the validity of the request for the specified method. In this case the method is OPTIONS but CICS cannot process the request. The status code *statuscode* indicates the reason for this as follows

- 400 : the request is not valid HTTP/1.1
- 405 : the request is valid in HTTP/1.1 terms but is not allowed by CICS for the OPTIONS method. For example CICS does not support OPTIONS for a path. CICS returns a HTTP response containing an ALLOW header stating which methods CICS supports when a path is specified.

System action: An error response with status code *statuscode* is sent to the client and processing of the request is terminated.

User response: The HTTP request should be corrected.

Module: DFHWBXN

XMEOUT Parameters: *date, time,applid, tranid, statuscode, hostaddr, clientaddr, tcpipservice*

Destination: CWBO

DFHWB0763 *date time applid tranid* **The URIMAP associated with the HTTP request is disabled. Host IP address:** *hostaddr***. Client IP address:** *clientaddr***.**

Explanation: The URIMAP associated with the HTTP request is disabled. If the host IP address and the client IP address are not available when this error occurred, these addresses will be displayed as "UNKNOWN".

System action: An error response is sent to the client and the request is terminated. Message DFHME0116 should be produced containing the symptom string for this problem.

User response: The host and path information in the HTTP request determine which URIMAP definition is being used. Determine why that URIMAP definition has been disabled. If the URIMAP has not been disabled to prevent these HTTP requests being processed, enable the URIMAP definition.

XMEOUT Parameters: *date, time, applid, tranid, hostaddr, clientaddr*

DFHWB0764 *date time applid tranid* **An attempt was made to use URIMAP** *urimap* **which is disabled.**

Explanation: An attempt to use the specified URIMAP has failed because the URIMAP is disabled. You might receive another message that shows the failed request.

System action: Processing continues, but the current request will subsequently fail. Message DFHME0116 should be produced containing the symptom string for this problem.

User response: Check the reason for the URIMAP being disabled - enable the URIMAP if necessary.

XMEOUT Parameters: *date, time, applid, tranid, urimap*

DFHWB1007 *applid* **Initializing CICS Web environment.**

Explanation: Module DFHWBIP has been invoked to initialize the CICS Web 3270 environment.

System action: Processing continues.

User response: None.

Module: DFHWBIP

XMEOUT Parameter: *applid*

Destination: Console

DFHWB1008 *applid* **CICS Web environment initialization is complete.**

Explanation: The CICS Web 3270 environment has been initialized, and it is now ready to process Web-related work.

System action: Processing continues.

User response: None.

Module: DFHWBIP

XMEOUT Parameter: *applid*

Destination: Console

DFHWB1009 *applid* **CICS Web environment initialization failed. Reason Code:** *X'rc'*.

Explanation: The CICS Web 3270 environment initialization failed with reason code *rc*.

System action: CICS initialization continues. Subsequent calls to the components of the CICS Web environment may fail.

User response: Use the reason code *rc* to determine why initialization failed. The possible reasons are

1 Storage for the Web anchor block could not be obtained.

3 Load for module DFHWBST failed.

4 Load for module DFHWBTC failed.

5 Storage for the State Manager anchor block could not be obtained.

6 The creation of the State Token Directory failed.

7 The subpool required for state management could not be added.

8 The subpool required for HTTP buffers could not be added.

9 The addition of the WBST lock failed.

A Load for module DFHWBIP failed.

Reason codes 1 to 9 originate in DFHWBIP. Reason code A originates from DFHSIJ1.

Module: DFHWBIP, DFHSIJ1

XMEOUT Parameters: *applid, X'rc'*

Destination: Console

DFHWB1020 *date time applid* **CICS Web State Manager could not find state data for state token** *stoken* **for a** *{destroy | retrieve | store}* **request.***{ | TCPIPSERVICE: }tcpipservice*

Explanation: The CICS Web State Manager could not find the state data for the state token *stoken* or the supplied state token *stoken* does not exist.

System action: The requested state data cannot be destroyed, updated or retrieved by the Web State Manager. An exception trace entry is made in the trace table.

User response: Ensure that the supplied state token *stoken* is correct. On a busy CICS region, the most likely cause of this error is that the state data has been discarded by the Web garbage collection process before the Web state manager could access it. Check that the system initialization *WEBDELAY* parameters are appropriate values. See the *CICS System Definition Guide* for guidance on setting the values of the Web garbage collection interval and the Web terminal timeout interval.

Module: DFHWBST

XMEOUT Parameters: *date, time,applid, stoken, {1=destroy,2=retrieve, 3=store}, {1= , 2= TCPIPSERVICE: }, tcpipservice*

Destination: CWBO

DFHWB1021 *date time applid* **CICS Web State Manager could not find state data for state token** *stoken* **in order to perform the** *{initialize partnership | make partnership |break partnership | trigger partner | wait for partner | query partner | terminate partnership}* **request for task number** *taskid***, CICS unit of work id** *X'cuowid'*.*{ | TCPIPSERVICE: }tcpipservice*

Explanation: The CICS Web State Manager could not find the state data for the state token *stoken* because the supplied state token *stoken* does not exist. The running task is task number *taskid* and the associated CICS unit of work id is *cuowid*.

System action: The Web State Manager cannot therefore perform the requested partnership function for the running task. An exception trace entry is made in the trace table.

User response: Ensure that the supplied state token *stoken* is correct. On a busy CICS region, the most likely cause of this error is that the state data has been discarded by the Web garbage collection process before the Web State Manager could access it for the running task. Check that the system initialization *WEBDELAY* parameters are appropriate values. See the *CICS System Definition Guide* for guidance on setting the values of the Web garbage collection interval and the Web terminal timeout interval.

Module: DFHWBST

XMEOUT Parameters: *date, time,applid, stoken, {1=initialize partnership, 2=make partnership, 3=break partnership, 4=trigger partner, 5=wait for partner, 6=query partner, 7=terminate partnership}, taskid, X'cuowid', {1= , 2= TCPIPSERVICE: }, tcpipservice*

Destination: CWBO

DFHWB1100E *date time applid* **The CICS Web Interface received data from the user application that is longer than expected.**

Explanation: The environment variables program has received data from a user application. However, the data received was longer than expected.

System action: Exception trace point 4623 is written. The environment variables program abnormally terminates with abend code AWB7.

User response: Examine the data sent to CICS from the application program.

Module: DFHWBENV

XMEOUT Parameters: *date, time,applid*

Destination: Console Routecodes 2 and 12 and Transient Data Queue CWBO

DFHWB1200 *date time applid tranid* **The CICS Web Interface analyzer program set parameter WBRA_USER_DATA_LENGTH to more than the maximum. Program name:** *progname***. RESPONSE:** *response***. REASON** *reason***. Host IP address:** *hostaddr***. Client IP address** *clientaddr***. Data offset:** *X'dataoffset'***. Data length** *X'datalength'***. Buffer length** *X'bufferlength'*.*{ | TCPIPSERVICE }tcpipservice*

Explanation: As part of its normal processing of a request, Web attach processing invokes the user replaceable analyzer to tailor the required actions. This program is passed the length of the user data part of the HTTP request in parameter WBRA_USER_DATA_LENGTH, which it can modify. However, the modified value is greater than the maximum allowable value which represents the available space in the data buffer.

System action: An error response is sent to the client and processing of the request is terminated.

User response: Modify the analyzer program so that it does not set the parameter WBRA_USER_DATA_LENGTH to be greater than the maximum. The sum of the data offset and the data length should not exceed the buffer length.

Module: DFHWBXN

XMEOUT Parameters: *date, time,applid, tranid, progname, response, reason, hostaddr, clientaddr, X'dataoffset', X'datalength',X'bufferlength', {1= , 2=TCPIPSERVICE: }, tcpipservice*

Destination: CWBO

DFHWB1525 *date time applid tranid* **The CICS Web Interface connection manager received an unexpected response from CICS.**

Explanation: The connection manager received an unexpected response to a CICS command. This is a logic error.

System action: A system dump is taken. Processing continues. Message DFHME0116 should be produced containing the symptom string for this problem.

User response: You may need further assistance from IBM to resolve this problem. See the *CICS External Interfaces Guide* and Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed. Report the details of the symptom string given in message DFHME0116. It will aid problem determination.

Module: DFHWBC01

XMEOUT Parameters: *date, time,applid, tranid*

Destination: CWBO and Terminal End User

DFHWB1551 *date time applid* **The CWBC Transaction is no longer used to manage CICS Web resources.**

Explanation: An attempt has been made to run the CICS-supplied transaction CWBC. This transaction is no longer used to manage CICS Web resources.

System action: None. Processing continues.

User response: Refer to the CICS Internet and External Interfaces Guide, and the Resource Definition Guide for details of how to manage CICS Web resources. See the *CICS External Interfaces Guide* and Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHWBC01

XMEOUT Parameters: *date, time,applid*

Destination: CWBO and Terminal End User

DFHWB1560 *date time applid userid* **URIMAP** *urimap* **has been created.**

Explanation: This is an audit log message indicating that URIMAP *urimap* has been added to the system using the INSTALL command.

System action: The system continues normally.

User response: None.

Module: DFHWBUR

XMEOUT Parameters: *date, time,applid, userid, urimap*

Destination: CWBO

DFHWB1570 *date time applid userid* **URIMAP** *urimap* **was successfully discarded.**

Explanation: This is an audit log message indicating that URIMAP *urimap* has been removed from the system using the DISCARD command.

System action: The system continues normally.

User response: None.

Module: DFHWBUR

XMEOUT Parameters: *date, time,applid, userid, urimap*

Destination: CWBO

DFHWB7001 HTTPD_extract for *envvar* **failed. Processing of this request terminated rc=***retcode***.**

Explanation: The CICS GWAPI program received an error response *retcode* when it executed the `HTTPD_extract` function to retrieve the specified environment variable *envvar*.

System action: The CICS GWAPI program terminates and returns an HTTP server error response (code 500) to the Web browser.

User response: Investigate whether the ICSS/390 server has been correctly configured to use the CICS GWAPI DLL. Refer to the *CICS External Interfaces Guide* for further information.

Module: DFHWBAPI

Destination: SYSPRINT

DFHWB7002 HTTPD_read for HTTP user data failed. Processing of this request terminated rc=*retcode***.**

Explanation: The CICS GWAPI program received an error response *retcode* when it executed the `HTTPD_read` function to retrieve the user data sent with an HTTP request.

System action: The CICS GWAPI program terminates and returns an HTTP server error response (code 500) to the Web browser.

User response: Investigate whether the ICSS/390 server has been correctly configured to use the CICS GWAPI DLL. Refer to the *CICS External Interfaces Guide* for further information.

Module: DFHWBAPI

Destination: SYSPRINT

DFHWB7003 Invalid URL passed to DFHWBAPI: *url***. Processing of this request terminated rc=***retcode***.**

Explanation: The CICS GWAPI program has attempted to analyze the path name section of the Uniform Resource Locator *url* that it received from the Web browser, but has determined that its syntax is not in the standard format expected to decide which CICS region, transaction, and program should process the request.

The reason for the failure is given by one of the following values for the return code *retcode*.

1 The path name contains fewer than eight characters.
2 The path name does not begin with a leading slash ('/') character.
3 The CICS applid is invalid.
4 The converter name is invalid.
5 The transaction name is invalid.
6 The server program name is invalid.

System action: The CICS GWAPI program terminates and returns an HTTP server error response (code 500) to the Web browser.

User response: Investigate whether the ICSS/390 server has been correctly configured to use the CICS GWAPI DLL. Refer to the *CICS External Interfaces Guide* for further information.

Module: DFHWBAPI

Destination: SYSPRINT

DFHWB7006 Link to program *program_name* **at applid** *applid* **failed for URL** *url***. Processing of this request terminated RESP=***resp* **RESP2=***resp2***.**

Explanation: The CICS GWAPI program has attempted to use the CICS External Call Interface (EXCI) to link to the Business Logic Interface program *program_name* in the CICS region with applid *applid*, but the link was unsuccessful. The EIBRESP and EIBRESP2 values from the EXEC CICS LINK command are *resp* and *resp2*.

System action: The CICS GWAPI program terminates and returns an HTTP error response to the Web browser. If *resp* and *resp2* indicate that there is a temporary problem establishing an Inter-Region Communication connection, the HTTP error response is 503 (system not available), otherwise it is 500 (server error).

User response: Investigate whether the target CICS region has been correctly configured to receive EXCI requests from this ICSS/390 server address space.

The following must be set up

- The target CICS region must be active.
- There must be a generic EXCI pipe, or a specific EXCI pipe for *applid*, installed in the target CICS region.
- Inter-Region Communication must be active in the target CICS region.

Refer to the *CICS External Interfaces Guide* for further information.

Module: DFHWBAPI

Destination: SYSPRINT

DFHWB7007 Error detected by program *program_name*. **Processing of this request terminated rc=***retcode*.

Explanation: The CICS GWAPI program has attempted to use the CICS External Call Interface (EXCI) to link to the Business Logic Interface program *program_name* in a CICS region, but an error response was returned by the program. The return code *retcode* is the Business Logic Interface response that was returned in `wbbl_response`.

System action: The CICS GWAPI program terminates and returns *retcode* as the HTTP server response to the Web browser.

User response: Investigate the reason for the error response. The values that can be returned in `wbbl_response` are documented in the *CICS External Interfaces Guide*, and are generally caused by a programming error in either the converter program or the server application program.

Module: DFHWBAPI

Destination: SYSPRINT

DFHWB7008 HTTPD_set for *variable* **failed for URL** *url*. **Processing of this request terminated rc=***retcode*.

Explanation: The CICS GWAPI program received an error response *retcode* when it executed the `HTTPD_set` function to set a value for the specified variable *variable* while processing URL *url*.

System action: The CICS GWAPI program terminates and returns an HTTP server error response (code 500) to the Web browser.

User response: Investigate whether the ICSS/390 server has been correctly configured to use the CICS GWAPI DLL. Refer to the *CICS External Interfaces Guide* for further information.

Module: DFHWBAPI

Destination: SYSPRINT

DFHWB7009 HTTP_write failed for URL *url*. **Processing of this request terminated rc=***retcode*.

Explanation: The CICS GWAPI program received an error response *retcode* when it executed the `HTTPD_write` function to write the user data to be sent with an HTTP response for URL *url*.

System action: The CICS GWAPI program terminates and returns an HTTP server error response (code 500) to the Web browser.

User response: Investigate whether the ICSS/390 server has been correctly configured to use the CICS GWAPI DLL. Refer to the *CICS External Interfaces Guide* for further information.

Module: DFHWBAPI

Destination: SYSPRINT

DFHWUnnnn messages

DFHWU0001 E *applid* **An abend (code** *aaa/bbbb***) has occurred at offset** *X'offset'* **in module** *modname*.

Explanation: An abnormal end (abend) or program check has occurred in module *modname*. This implies that there may be an error in CICS code.

Alternatively
- Unexpected data has been input,
- Storage has been overwritten, or
- There has been a program check within a user program.

The code *aaa* is, if applicable, a 3-digit hexadecimal MVS system completion code (for example, 0C1 or D37). If an MVS code is not applicable, this field is filled with three hyphens. The 4-digit code *bbbb*, which follows *aaa*, is a user abend code produced either by CICS or by another product on the user's system.

If X'*offset* contains the value X'FFFF, then module *modname* was in control at the time of the abend, but the program status word (PSW) was not addressing this module.

System action: An exception entry is made in the trace table. A system dump is taken, unless you have specifically suppressed dumps in the dump table.

Either this is a critical error and CICS is terminated, even if you have specified in the dump table that CICS should not terminate.

Or CICS will continue unless you have specified in the dump table that CICS should terminate. Message DFHME0116 should be produced containing the symptom string for this problem.

User response: Notify the system programmer.

Look up the MVS code *aaa*, if there is one, in the relevant MVS codes manual which is detailed in the book list in the front of this manual.

If the *modname* insert contains the value *????*, then CICS was unable to determine which module has abnormally terminated. In this case, examine the system dump to determine which area of code has caused the program check.

The user should examine other messages to determine what the module which issued this message was doing at the time the abend occurred. From these messages they can deduce which product has produced the abend code *bbbb*. If *bbbb* is identified as a CICS code, it may be either alphameric or numeric.

- If the CICS code is alphameric (for example AKEA) then it is a CICS transaction abend code.
- If the CICS code is numeric (for example 1310), it refers to a CICS message (DFHTS1310 in our example).

If the user abend code is from another product (for example, IMS), refer to the appropriate messages and codes manual to determine the cause of the abend.

The entries in the appropriate manuals will give the user guidance regarding the nature of the error, and may also give some guidance concerning the appropriate user response. The program check may have occurred in a user program. If this is the case, the program check is usually followed by an ASRA or an ASRB transaction abend and a transaction dump.

If you want to suppress system dumps that precede ASRA and ASRB abends, you must specify this on an entry in the dump table, using either CEMT or an EXEC CICS command. Further guidance on suppressing system dumps can be found in the *CICS System Definition Guide*.

You may need further assistance from IBM to resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHWUIPG

XMEOUT Parameters: *applid, aaa/bbbb, X'offset', modname*

Destination: Console

DFHWU0002 *applid* **A severe error (code** *X'code'***) has occurred in module** *modname***.**

Explanation: An error has been detected in module *modname*. The code X'*code* is the exception trace point ID which uniquely identifies what the error is and where the error was detected.

System action: An exception entry (code X'*code* in the message) is made in the trace table. A system dump is taken, unless you have specifically suppressed dumps in the dump table.

CICS will continue unless you have specified in the dump table that CICS should terminate. If appropriate, an error return code is sent to the caller of this domain. In this case, CICS could be terminated by the caller (for example, the domain manager, DFHDMDM). A message is issued to this effect.

Message DFHME0116 should be produced containing the symptom string for this problem.

User response: Inform the system programmer. This indicates a possible error in CICS code. The severity of its impact will depend on the importance of the function being executed at the time of the error.

For further information about CICS exception trace entries, refer to the *CICS Problem Determination Guide*.

CICS may not have been terminated. If the message occurs once and module *modname* is not crucial to the running of your CICS system, you may decide to continue to run and bring CICS down at a convenient time to resolve the problem.

If the message recurs or if you cannot run without the full use of module *modname*, you should bring CICS down in a controlled shutdown.

You need further assistance from IBM to resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHWUIN1, DFHWURP

XMEOUT Parameters: *applid, X'code',modname*

Destination: Console

DFHWU0004 *applid* **A possible loop has been detected at offset** *X'offset'* **in module** *modname***.**

Explanation: A CICS function is taking more time to process than CICS expects. A possible loop has been detected in module *modname* at offset X'*offset*'. This is the offset of the instruction which was executing at the time the error was detected.

System action: An exception entry is made in the trace table. A system dump is taken, unless you have specifically suppressed dumps in the dump table.

CICS continues unless you have specified in the dump table that CICS should terminate. If appropriate, an error return code is sent to the caller of this domain. In this case CICS could be terminated by the caller (for example, the domain manager, DFHDMDM). A message is issued to this effect.

Message DFHME0116 should be produced containing the symptom string for this problem.

User response: Notify the system programmer. If CICS has not been terminated, it is necessary to decide whether the problem is serious enough to bring CICS down.

Since some CICS functions can use a lot of processor time, this message may have been caused by a long-running function. So there may not be an error here. Usually, CICS purges a CICS function which

exceeds the runaway task time interval which you have specified in the SIT (this is the ICVR which is measured in milliseconds). This means that module *modname* in the message is terminated and CICS continues.

But if you have declared ICVR=0 in the SIT and you consider that module *modname* has gone into a loop, you have to terminate CICS in order to terminate the runaway function.

If CICS has terminated module *modname*, and you consider that it was not a runaway, you should increase the ICVR time interval in the SIT. You have to bring CICS down at a suitable time to do this permanently. But you can change the ICVR time interval temporarily online, using the CEMT transaction.

If raising the ICVR time does not solve the problem, you need further assistance from IBM. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHWUIN1

XMEOUT Parameters: *applid, X'offset', modname*

Destination: Console

DFHWU1000 *date time applid* **The userid** *userid* **attempted to access a result cache token belonging to userid** *cacheuser***.**

Explanation: A user has attempted to access a cache token that belongs to another user.

System action: The system continues normally.

User response: None.

Module: DFHWURSM

XMEOUT Parameters: *date, time,applid, userid, cacheuser*

Destination: CSMT

DFHWU0910 I *applid* **Instruction address** *X'aaaaaaaa'***, offset** *X'offset'* **in CSECT** *csect***.**

Explanation: The CICSPlex SM recovery routine has been entered as a result of an abend in a CICS system.

This message describes the location of an abend that occurred in CICSPlex SM, where

applid is the z/OS Communications Server application ID of the CICS system that abended.

aaaaaaaa is the address of the instruction that caused the abend.

offset is the offset of the instruction in the CSECT that caused the abend.

csect is the name of the CSECT that contains the instruction that caused the abend.

System action: The recovery routine attempts to capture and format any relevant diagnostic information. All available information is presented in the DFHWU09nn messages that follow this message.

User response: Collect as much of the following information as possible, and contact your IBM support center.

- Job log for the job that received the abend. If the job log is not available, get the system log.
- EYULOG file. If a CMAS abended, get the EYULOG file for that CMAS. If a CICS system abended, get the EYULOG file for the CMAS to which the CICS system was connected.
- Formatted transaction dump, if one was taken.
- Unformatted SVC dump, if one was taken.
- AUXTRACE file, if available. If a CICS system abended and AUXTRACE was not active in that CICS system, get the AUXTRACE file from the CMAS to which the CICS system was connected.

Module: DFHWUIPG

XMEOUT Parameters: *applid, X'aaaaaaaa', X'offset', csect*

Destination: Console

DFHWU0911 I *applid* **EC Mode PSW at time of abend:** *PSW1 PSW2 PSW3 PSW4*

Explanation: This message provides information about the state of the PSW at the time of an abend.

System action: The recovery routine continues to format diagnostic information.

User response: Follow the instructions in message DFHWU0910.

Module: DFHWUIPG

XMEOUT Parameters: *applid, PSW1,PSW2, PSW3, PSW4*

Destination: Console

DFHWU0912 I *applid* **Execution key:** *key***, abend reason code** *X'reason'***.**

Explanation: This message provides information about the execution key at the time of an abend, and the abend reason code where

applid is the z/OS Communications Server application ID of the CICS system that abended.

key is the storage key which the task was executing in at the time of the abend.

reason is the reason code provided by the abend

System action: The recovery routine continues to format diagnostic information.

User response: Follow the instructions in message DFHWU0910.

Module: DFHWUIPG

XMEOUT Parameters: *applid, key,X'reason'*

Destination: Console

DFHWU0913 I *applid* **Execution mode:** *mode*. **BEAR:** *X'bear'*.

Explanation: This message provides information about the execution mode and breaking event address register (BEAR) at the time of an abend.

System action: The recovery routine continues to format diagnostic information.

User response: Follow the instructions in message DFHWU0910.

Module: DFHWUIPG

XMEOUT Parameters: *applid, mode,X'bear'*

Destination: Console

DFHWU0914 I *applid* **Registers** *R1*-*R2*: *REG1VAL REG2VAL*

Explanation: The name of each register that was formatted is displayed along with its content.

System action: The recovery routine continues to format diagnostic information.

User response: Follow the instructions in message DFHWU0910.

Module: DFHWUIPG

XMEOUT Parameters: *applid, R1,R2, REG1VAL, REG2VAL*

Destination: Console

DFHWU0915 I *applid* **Branch to low address; using R14 for PSW.**

Explanation: A calling program attempted to branch to an invalid address. The CICSPlex SM routine uses the address in register 14 in an attempt to format any relevant diagnostic information.

System action: The recovery routine continues to format diagnostic information.

User response: Follow the instructions in message DFHWU0910.

Module: DFHWUIPG

XMEOUT Parameter: *applid*

Destination: Console

DFHWU0916 I *applid* **Storage around PSW at time of abend**

Explanation: The contents of storage at the location of the abend have been formatted. This message serves as a header for the content records that follow.

System action: The recovery routine continues to format diagnostic information. The contents of storage are displayed in the DFHWU0917 messages immediately following this header.

User response: Follow the instructions in message DFHWU0910.

Module: DFHWUIPG

XMEOUT Parameter: *applid*

Destination: Console

DFHWU0917 I *applid offset location data1 data2 data3 data4*

Explanation: The contents of storage at each of the following locations is displayed

-0010 16 bytes before the PSW

+0000 Start of the PSW

+0010 16 bytes after the PSW

System action: The recovery routine continues to format diagnostic information.

User response: Follow the instructions in message DFHWU0910.

Module: DFHWUIPG

XMEOUT Parameters: *applid, offset,location, data1, data2, data3, data4*

Destination: Console

DFHWU0918 I *applid* **Abend while dumping storage; PSW probably not valid.**

Explanation: While attempting to capture and format diagnostic information, the CICSPlex SM recovery routine encountered addresses that could not be accessed.

System action: The recovery routine continues to format diagnostic information.

User response: Follow the instructions in message DFHWU0910.

Module: DFHWUIPG

XMEOUT Parameter: *applid*

Destination: Console

DFHWU0919 I *applid* **Transaction:** *tran***. Task:** *task***.**

Explanation: This message provides information about the currently executing transaction and task at the time of an abend, where

applid is the z/OS Communications Server application ID of the CICS system that abended.

tran is the CICS transaction ID.

task is the CICS task number.

System action: The recovery routine continues to format diagnostic information.

User response: Follow the instructions in message DFHWU0910.

Module: DFHWUIPG

XMEOUT Parameters: *applid, tran,task*

Destination: Console

DFHWU0920 I *applid* **Abend recovery completed successfully.**

Explanation: The CICSPlex SM recovery routine has successfully completed processing the abend reported in the previous DFHWU09xx messages.

System action: None.

User response: Follow the instructions in message DFHWU0910.

Module: DFHWUIPG

XMEOUT Parameter: *applid*

Destination: Console

DFHWU2100 *applid* **Unable to link to program DFHWURP.**

Explanation: The CICS management client interface recovery program, DFHWURP, is unavailable. CICS cannot find DFHWURP in any data set concatenated in the DFHRPL DD statement in the CICS startup job stream.

System action: CICS terminates abnormally with a dump.

User response: To correct this error, place DFHWURP in a partitioned data set in the DFHRPL DD statement.

Module: DFHWUIN2

XMEOUT Parameter: *applid*

Destination: Console

DFHWU4001 The URI that has been specified has exceeded the maximum allowable length of 256 bytes.

Explanation: An error has occurred in the CICS management client interface. The request cannot be processed. The URI that has been specified has exceeded the maximum allowable length of 256 bytes.

System action: The system stops processing the request.

User response: Specify a URI with the correct length and resubmit the request.

Module: DFHWUIPG

Destination: HTTP Client

DFHWU4002 The body of the HTTP request was not specified.

Explanation: An error has occurred in the CICS management client interface. The request cannot be processed. The body of the HTTP request was not specified.

System action: The system stops processing the request.

User response: Specify the body of the HTTP request and resubmit the request.

Module: DFHWUIPG

Destination: HTTP Client

DFHWU4003 An unknown query parameter was specified in the URI. name:*parmname* **value:** *parmvalue*

Explanation: An error has occurred in the CICS management client interface. The request cannot be processed. An unknown query parameter was specified in the URI. The system stops processing the request.

User response: Specify a valid query parameter name and value and resubmit the request.

Module: DFHWUIPG

Destination: HTTP Client

DFHWU4005 The result cache token was missing from the URI.

Explanation: An error has occurred in the CICS management client interface. The request cannot be processed. The result cache token was missing from the URI.

System action: The system stops processing the request.

User response: Add the result cache token to the URI and resubmit the request.

Module: DFHWUIPG

Destination: HTTP Client

DFHWU4006 The resource name was missing from the URI.

Explanation: An error has occurred in the CICS management client interface. The request cannot be processed. The resource name was missing from the URI.

System action: The system stops processing the request.

User response: Add the resource name to the URI and resubmit the request.

Module: DFHWUIPG

Destination: HTTP Client

DFHWU4007 The body of the HTTP request was not specified correctly.

Explanation: An error has occurred in the CICS management client interface. The request cannot be processed. The body of the HTTP request was not specified correctly.

System action: The system stops processing the request.

User response: Correct the body of the HTTP request and resubmit the request.

Module: DFHWUIPG

Destination: HTTP Client

DFHWU4008 An action was specified in the HTTP body that was not valid. ACTION value: *action*

Explanation: An error has occurred in the CICS management client interface. The request cannot be processed. An action was specified in the HTTP body that was not valid. "ACTION" value is the name of the invalid action.

System action: The system stops processing the request.

User response: Specify a valid action in the HTTP body and resubmit the request.

Module: DFHWUIPG

Destination: HTTP Client

DFHWU4009 The record index was specified for a non-cached result. RECORDINDEX value: *recordindex*

Explanation: An error has occurred in the CICS management client interface. The request cannot be processed. The record index was specified for a non-cached result. "RECORDINDEX" is the specified record index.

System action: The system stops processing the request.

User response: Remove the record index from the URI and resubmit the request.

Module: DFHWUIPG

Destination: HTTP Client

DFHWU4010 The record index specified in the URI was not valid. RECORDINDEX value: *recordindex*

Explanation: An error has occurred in the CICS management client interface. The request cannot be processed. The record index specified in the URI was not valid. "RECORDINDEX" is the specified record index.

System action: The system stops processing the request.

User response: Correct the record index in the URI and resubmit the request.

Module: DFHWUIPG

Destination: HTTP Client

DFHWU4011 The record count specified in the URI was not valid. RECORDCOUNT value: *recordcount*

Explanation: An error has occurred in the CICS management client interface. The request cannot be processed. The record count specified in the URI was not valid. "RECORDCOUNT" is the specified record count.

System action: The system stops processing the request.

User response: Specify a correct record count in the URI and resubmit the request.

Module: DFHWUIPG

Destination: HTTP Client

DFHWU4012 Extraneous data was detected at the end of the URI. EXTRADATA value: *data*

Explanation: An error has occurred in the CICS management client interface. The request cannot be processed. Extraneous data was detected at the end of the URI. "EXTRADATA" is the specified extra data.

System action: The system stops processing the request.

User response: Remove the extraneous data from the end of the URI and resubmit the request.

Module: DFHWUIPG

Destination: HTTP Client

DFHWU4013 Multiple CRITERIA expressions were found in the URI.

Explanation: An error has occurred in the CICS management client interface. The request cannot be processed. Multiple CRITERIA expressions were found in the URI.

System action: The system stops processing the request.

User response: Remove the multiple CRITERIA expressions from the URI and resubmit the request.

Module: DFHWUIPG

Destination: HTTP Client

DFHWU4014 Multiple PARAMETER expressions were found in the URI.

Explanation: An error has occurred in the CICS management client interface. The request cannot be processed. Multiple PARAMETER expressions were found in the URI.

System action: The system stops processing the request.

User response: Remove the multiple PARAMETER expressions from the URI and resubmit the request.

Module: DFHWUIPG

Destination: HTTP Client

DFHWU4015 Multiple ASSOCIATION expressions were found in the URI.

Explanation: An error has occurred in the CICS management client interface. The request cannot be processed. Multiple ASSOCIATION expressions were found in the URI.

System action: The system stops processing the request.

User response: Remove the multiple ASSOCIATION expressions from the URI and resubmit the request.

Module: DFHWUIPG

Destination: HTTP Client

DFHWU4016 Multiple NODISCARD expressions were found in the URI.

Explanation: An error has occurred in the CICS management client interface. The request cannot be processed. Multiple NODISCARD expressions were found in the URI.

System action: The system stops processing the request.

User response: Remove the multiple NODISCARD expressions from the URI and resubmit the request.

Module: DFHWUIPG

Destination: HTTP Client

DFHWU4017 NODISCARD is only valid for HTTP GET requests.

Explanation: An error has occurred in the CICS management client interface. The request cannot be processed. NODISCARD is only valid for HTTP GET requests.

System action: The system stops processing the request.

User response: Remove the NODISCARD expressions from the URI and resubmit the request.

Module: DFHWUIPG

Destination: HTTP Client

DFHWU4018 CRITERIA is not valid for HTTP POST requests.

Explanation: An error has occurred in the CICS management client interface. The request cannot be processed. CRITERIA is not valid for HTTP POST requests.

System action: The system stops processing the request.

User response: Remove the CRITERIA expressions from the URI and resubmit the request.

Module: DFHWUIPG

Destination: HTTP Client

DFHWU4019 PARAMETER is not valid for HTTP POST requests.

Explanation: An error has occurred in the CICS management client interface. The request cannot be processed. PARAMETER is not valid for HTTP POST requests.

System action: The system stops processing the request.

User response: Remove the PARAMETER expressions from the URI and resubmit the request.

Module: DFHWUIPG

Destination: HTTP Client

DFHWU4020 Multiple SUMMONLY expressions were found in the URI.

Explanation: An error has occurred in the CICS management client interface. The request cannot be

processed. Multiple SUMMONLY expressions were found in the URI.

System action: The system stops processing the request.

User response: Remove the multiple SUMMONLY expressions from the URI and resubmit the request.

Module: DFHWUIPG

Destination: HTTP Client

DFHWU4021 CRITERIA is not valid for result cache operations. CRITERIA value *criteria*

Explanation: An error has occurred in the CICS management client interface. The request cannot be processed. CRITERIA is not valid for result cache operations. The value specified for the CRITERIA expression is *criteria*.

System action: The system stops processing the request.

User response: Remove the CRITERIA expression from the URI and resubmit the request.

Module: DFHWUIPG

Destination: HTTP Client

DFHWU4022 PARAMETER is not valid for result cache operations. PARAMETER value: *parameter*

Explanation: An error has occurred in the CICS management client interface. The request cannot be processed. Using a PARAMETER expression is not valid for result cache operations. The value specified for the PARAMETER expression is *parameter*.

System action: The system stops processing the request.

User response: Remove the PARAMETER expression from the URI and resubmit the request.

Module: DFHWUIPG

Destination: HTTP Client

DFHWU4023 ASSOCIATION is not valid for result cache operations. ASSOCIATION value: *association*

Explanation: An error has occurred in the CICS management client interface. The request cannot be processed. Using an ASSOCIATION expression is not valid for result cache operations. The value specified for the ASSOCIATION expression is *association*.

System action: The system stops processing the request.

User response: Remove the PARAMETER expression from the URI and resubmit the request.

Module: DFHWUIPG

Destination: HTTP Client

DFHWU4024 The ASSOCIATION expression specified in the URI is not valid. ASSOCIATION value: *association*

Explanation: An error has occurred in the CICS management client interface. The request cannot be processed. The ASSOCIATION expression specified in the URI is not valid. The value specified for the ASSOCIATION expression is *association*.

System action: The system stops processing the request.

User response: Correct the ASSOCIATION expression in the URI and resubmit the request.

Module: DFHWUIPG

Destination: HTTP Client

DFHWU4025 A specified attribute was not valid for this resource.

Explanation: An error has occurred in the CICS management client interface. The request cannot be processed. A specified attribute was not valid for this resource.

System action: The system stops processing the request.

User response: Supply an appropriate attribute and resubmit the request.

Module: DFHWUIPG

Destination: HTTP Client

DFHWU4026 The DEFVER attribute was not specified or was specified with a value of zero.

Explanation: An error has occurred in the CICS management client interface. The request cannot be processed. The DEFVER attribute was not specified or was specified with a value of zero.

System action: The system stops processing the request.

User response: Supply a valid DEFVER attribute and resubmit the request.

Module: DFHWUIPG

Destination: HTTP Client

DFHWU4027 A value of a specified attribute was out-of-range or not valid.

Explanation: An error has occurred in the CICS management client interface. The request cannot be processed. A value of a specified attribute was out-of-range or not valid.

System action: The system stops processing the request.

User response: Supply a valid attribute and resubmit the request.

Module: DFHWUIPG

Destination: HTTP Client

DFHWU4029 The result cache token specified exceeded its maximum allowable length. CACHETOKEN value: *cachetoken*

Explanation: An error has occurred in the CICS management client interface. The request cannot be processed. The result cache token specified exceeded its maximum allowable length. The *cachetoken* is the value specified for the cache token.

System action: The system stops processing the request.

User response: Supply a cache token value of the correct length and resubmit the request.

Module: DFHWUIPG

Destination: HTTP Client

DFHWU4030 The resource name was not specified in the URI.

Explanation: An error has occurred in the CICS management client interface. The request cannot be processed. The resource name was not specified in the URI.

System action: The system stops processing the request.

User response: Specify the resource name in the URI and resubmit the request.

Module: DFHWUIPG

Destination: HTTP Client

DFHWU4031 Multiple ORDERBY expressions were found in the URI.

Explanation: An error has occurred in the CICS management client interface. The request cannot be processed. Multiple ORDERBY expressions were found in the URI.

System action: The system stops processing the request.

User response: Remove the multiple ORDERBY expressions in the URI and resubmit the request.

Module: DFHWUIPG

Destination: HTTP Client

DFHWU4032 ORDERBY is only valid for HTTP GET requests.

Explanation: An error has occurred in the CICS management client interface. The request cannot be processed. Use of an ORDERBY expression is only valid for HTTP GET requests.

System action: The system stops processing the request.

User response: Remove the ORDERBY expression on this request and resubmit.

Module: DFHWUIPG

Destination: HTTP Client

DFHWU4300 The result cache token specified in the URI does not belong to the user who made the request.

Explanation: An error has occurred in the CICS management client interface. The result cache token specified in the URI does not belong to the user who made the request.

System action: Access to the specified result cache has been denied.

User response: Respecify the request with the correct result cache token.

Module: DFHWUIPG

Destination: HTTP Client

DFHWU4301 It is not possible to run requests in this environment. This region is not configured correctly.

Explanation: An error has occurred in the CICS management client interface. It is not possible to run requests in this environment. This region is not configured correctly. The CICS management client interface should only be started on either a CICSPlex SM Web User Interface or a single server (SMSS) region.

User response: Ensure that you are using the correct environment for your requests.

Module: DFHWUIPG

Destination: HTTP Client

DFHWU4302 The requested record count will exceed the current default warning count limit. current_record_count value: *currcount* **default_warning_count value:** *warncount*

Explanation: An error has occurred in the CICS management client interface. The request has been denied as it exceeded a resource limit. The requested record count will exceed the current default warning count limit.

System action: The system stops processing the request.

User response: Respecify the request to reduce the number of records returned.

Module: DFHWUIPG

Destination: HTTP Client

DFHWU4400 The resource specified in the URI could not be found.

Explanation: An error has occurred in the CICS management client interface. The resource specified in the URI could not be found. The resource type is not supported by this version of the CICS management client interface.

System action: The system stops processing the request.

User response: Check that the specified CICS resource name is correct. Specify a valid resource in the URI and resubmit the request.

Module: DFHWUIPG

Destination: HTTP Client

DFHWU4401 The result cache record specified could not be found.

Explanation: An error has occurred in the CICS management client interface. The result cache record specified could not be found because the result cache record index was out of range.

System action: The system stops processing the request.

User response: Check that the specified result cache record index is correct.

Module: DFHWUIPG

Destination: HTTP Client

DFHWU4402 The result cache specified could not be found.

Explanation: An error has occurred in the CICS management client interface. The result cache specified could not be found because the result cache token could not be found.

System action: The system stops processing the request.

User response: Check that the specified result cache token is correct.

Module: DFHWUIPG

Destination: HTTP Client

DFHWU4500 A method has been specified that is not valid for the URI sent to the CICS management client interface. METHOD value: *method*

Explanation: An error has occurred in the CICS management client interface. The specified HTTP method is not allowed for the URI. The *method* is not valid for the URI sent to the CICS management client interface.

System action: The system stops processing the request.

User response: Check that you have specified a valid HTTP method and resubmit the request.

Module: DFHWUIPG

Destination: HTTP Client

DFHWU5000 There was insufficient GCDSA storage available to complete the request.

Explanation: An internal error has occurred in the CICS management client interface. There was insufficient GCDSA storage available to complete the request.

System action: The system stops processing the request.

User response: Contact your system administrator.

Module: DFHWUIPG

Destination: HTTP Client

DFHWU5001 The CICS management client interface server has gone Short On Storage BELOW the bar.

Explanation: An internal error has occurred in the CICS management client interface. The CICS management client interface server has gone short-on-storage below the bar.

System action: The system stops processing the request.

User response: Contact your system administrator.

Module: DFHWUIPG

Destination: HTTP Client

DFHWU5002 An internal error has occurred in the CICS management client interface.

Explanation: An internal error has occurred in the CICS management client interface.

System action: The system stops processing the request.

User response: Contact your IBM support center to help resolve the problem.

Module: DFHWUIPG **Destination:** HTTP Client

DFHXAnnnn messages

DFHXA6521I *applid* **CICS shutdown initiated by CEBT event**

Explanation: This is an informational message issued from the CICS TCB.

System action: CICS terminates normally.

User response: None.

Module: DFHXRCP

XMEOUT Parameter: *applid*

Destination: Console

DFHXA6526I *applid* **MESSAGE RECEIVED FOR UNSUPPORTED QUEUE** *X'queue'*.

Explanation: This message is issued from the CAVM TCB. A tracking message has been received for a queue with hexadecimal name X'*queue*. However this queue is not recognized by CICS.

System action: CICS processing continues, but tracking messages for queue X'*queue* are ignored.

User response: Check that the active CICS system and the alternate CICS system are at the same functional level with respect to XRF.

If both CICS systems are at the same level, check why the active CICS system has written data to the alternate system.

Ensure that the queue name has not been corrupted.

Module: DFHXRB

Destination: Console

DFHXA6528I *applid* **Unable to link to program** *progname*

Explanation: This message is issued from the CICS TCB. CICS is unable to link to program *progname*.

System action: CICS terminates abnormally with a system dump and abend code 0210.

User response: Examine the dump to determine why CICS was unable to link to program *progname*.

Ensure that the named program is not missing from the data sets concatenated in the DFHRPL DD statement. If *progname* is missing, obtain a copy of the program and include it in the library. In addition, ensure that enough storage is available for the dynamic storage areas.

Module: DFHXRE

XMEOUT Parameters: *applid, progname*

Destination: Console

DFHXA6530 *applid* **START=STANDBY specified. CICS start-up is terminated because XRF=NO is specified**

Explanation: START=STANDBY and XRF=NO cannot be specified together.

System action: CICS terminates abnormally with a dump.

User response: Correct the conflicting values of the operands START and XRF.

Module: DFHSIC1

XMEOUT Parameter: *applid*

Destination: Console

DFHXA6540I XRF HAS FAILED. ERROR NUMBER *nn* **ON XRF MESSAGE DATA SET IN CONTROL INTERVAL WITH RBA HEX'***xx***'.**

Explanation: The XRF message manager has encountered a problem with the contents of the given control interval in the message data set. The message includes an error number *nn* which can take one of the following values

01 The CI does not contain an XRF message manager control record.

02 The XRF message control record contains a cycle number less than that of the current read cycle.

03 The XRF message manager did not find a message record boundary where it expected one.

04 There is an XRF message sequence number error.

05 The CIDF is invalid (for example, the free area length is negative).

06 The length in the RDF is less than the length of a message record header, or is inconsistent with the data length in the message record header.

07 The end of the record lies outside the data area defined by the data length field of the CIDF.

System action: Surveillance by the alternate system ceases.

User response: Check that the active and alternate systems are using the same pair of data sets for XRF surveillance. If they are, this is almost certainly a CICS

error affecting either the alternate system, the active system, or both.

You need further assistance from IBM to resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHWMRD

Destination: Console

DFHXA6541I XRF HAS FAILED. THE XRF MESSAGE READER IN THE ALTERNATE SYSTEM HAS FALLEN TOO FAR BEHIND.

Explanation: The alternate system has been unable to keep up with the messages generated by the active CICS system. Its read position in the wrap-round message data set has been 'lapped' by the active system.

System action: Surveillance by the alternate system ceases.

User response: Try to determine and correct the reason for the delay to the alternate system. It may be that the message data set is too small to allow adequate buffering, or the message data set has been reserved by the active CEC – not necessarily by the active CICS.

Module: DFHWMRD

Destination: Console

DFHXA6560I *applid* **TERMINATION COMMAND FAILED:** *command***.**

Explanation: The command issued by the alternate CICS during takeover to terminate the active CICS failed. MVS rejected the system operator command *command* issued under program control as being invalid.

System action: Message DFHXA6581 or DFHXA6582 is also displayed. The alternate CICS continues with its processing to detect termination of the active CICS job.

User response: Ensure that the active CICS job terminates. See messages DFHXA6581 and DFHXA6582. For problem determination, hard copy of the console log may be required.

Module: DFHWTI

Destination: Console

DFHXA6561D *applid* **WHEN** *jesno jobname* **ENDS REPLY 'JOB' OR WHEN CEC** *sid* **HAS FAILED REPLY 'CEC'.**

Explanation: During a takeover attempt, the issuing CICS system was unable to determine whether job *jobname*, running on a different CEC, has terminated. This is for one of the following reasons

- CICS was unable to issue a system operator command under program control to cancel the named job. In this case, message DFHXA6560, DFHXA6569 or DFHXA6570 has been produced.
- CICS has either successfully issued a cancel command, or job *jobname* is a failing DBCTL subsystem, but the job still appears to be running after the time period specified by the initialization parameter JESDI.

If *jobname* is the active CICS. Takeover cannot continue until *jobname* has ended. If *jobname* is a DBCTL subsystem, an alternate DBCTL cannot be started until *jobname* has ended.

System action: The system waits for a reply. In the meanwhile, the issuing CICS system continues processing to detect termination of the job.

If termination is detected while the reply is still outstanding, this message is deleted and message DFHXA6564 is displayed. In this case, a reply is no longer required.

If the reply is 'JOB', then processing continues as if CICS had detected the termination itself.

This also happens if the reply is 'CEC', but in addition an internal record is created indicating that the CEC is inoperative at this time. Other alternate CICS which have issued this message for jobs executing on the CEC specified, and which are still waiting for a reply, will detect the internal record of the failed CEC. Having done so they delete their outstanding replies and issue message DFHXA6563.

User response: The operator should either:-

- Ensure that job *jobname* with JES number *jesno* terminates, and then reply 'JOB', or
- Ensure that the CEC with MVS system identifier *sid* is inoperative at this time, for example by selecting SYSTEM RESET on that CEC, and then reply 'CEC'.

No action is necessary if at any time CICS deletes this message, as described above.

Module: DFHWTI

Destination: Console

DFHXA6563I *applid jesno jobname* **ENDED DUE TO FAILURE OF CEC** *sid***.**

Explanation: During takeover, the alternate CICS has detected that the CEC with MVS system identifier *sid* has failed and therefore that the active CICS job with job name *jobname* and JES job number *jesno* is regarded to have ended.

System action: The alternate CICS continues with its takeover processing.

User response: None.

Module: DFHWTI

Destination: Console

DFHXA6564I *applid* **TERMINATION OF** *jesno jobname* **DETECTED.**

Explanation: During takeover, the alternate CICS has detected that the active CICS job with specified job name and JES job number has ended.

System action: The alternate CICS continues with its takeover processing.

User response: None.

Module: DFHWTI

Destination: Console

DFHXA6566I *applid modname* **NOT LINK-EDITED REENTERABLE.**

Explanation: Module *modname*, the CLT or RST currently in use, was found not to have been link-edited with the reenterable module attribute.

The initialization option CLT=*xx* or RST=*xx* specifies the suffix of the CLT or RST currently in use by this alternate CICS.

System action: Further messages are issued which describe the action taken by CICS.

User response: The appropriate response is indicated by subsequent messages.

Module: DFHWTI

Destination: Console

DFHXA6567I *applid* **APPLID** *applid2* **NOT FOUND IN** *modname***.**

Explanation: Module *modname*, the CLT or RST currently in use by this alternate CICS, was found not to contain the APPLID *applid2*.

System action: Further messages are issued which describe the action taken by CICS.

User response: The appropriate response is indicated by subsequent messages.

Module: DFHWTI

Destination: Console

DFHXA6568I *applid* **JOBNAME** *jobname* **NOT FOUND IN** *modname***.**

Explanation: Module *modname* is either a CLT or an RST.

If the module is a CLT, it was found not to contain the job name *jobname* associated with the APPLID of this alternate CICS.

If the module is an RST, it was found not to contain the job name *jobname* associated with the DBCTL subsystem identified in the message.

jobname is the job name which the alternate CICS would have used to cancel the active CICS job or DBCTL job during a takeover

System action: Further messages are issued which describe the action taken by CICS.

User response: The appropriate response is indicated by subsequent messages.

Module: DFHWTI

Destination: Console

DFHXA6569I *applid* **MVS SYSTEM IDENTIFIER** *sid* **NOT FOUND IN DFHCLT***xx***.**

Explanation: The CLT currently in use was found not to contain the specified MVS system identifier *sid*, which identifies the CEC on which the active CICS was executing.

The initialization option CLT=*xx* specifies the suffix of the CLT currently in use by this alternate CICS.

System action: Further messages are issued by the alternate CICS to describe the action taken.

User response: The appropriate response is indicated by subsequent messages.

Module: DFHWTI

Destination: Console

DFHXA6570I *applid* **JES SUBSYSTEM NAME** *jesname* **NOT FOUND IN DFHCLT***xx* **FOR MVS SYSTEM** *sid***.**

Explanation: The CLT currently in use does not contain the JES subsystem name *jesname* associated with the MVS system *sid* of the CEC on which the active CICS was executing.

The initialization option CLT=*xx* specifies the suffix of the CLT currently in use by this alternate CICS.

System action: Further messages are issued by the alternate CICS to describe the action taken.

User response: The appropriate response is indicated by subsequent messages.

Module: DFHWTI

Destination: Console

DFHXA6571I *applid* **CICS IS NOT DEFINED AS AN MVS SUBSYSTEM.**

Explanation: The alternate CICS attempted to access an internal record of CEC failures to determine whether the CEC on which the active CICS job was executing had failed. To access this information CICS has to be defined as an MVS subsystem. Because it is not, the attempt failed.

System action: Processing continues.

User response: None. For further information about defining CICS as an MVS subsystem, see the *CICS Transaction Server for z/OS Installation Guide*.

Module: DFHWTI

Destination: Console

DFHXA6572I *applid* **UNABLE TO LOAD** *modname***.**

Explanation: The module *modname*, defined by the CLT or RST for use by the alternate CICS that issued this message, cannot be loaded.

System action: Further messages are issued by the alternate CICS to describe the action taken.

User response: The appropriate response is indicated by subsequent messages.

Module: DFHWTI

Destination: Console

DFHXA6573I *applid* **LOAD MODULE** *modname* **IS NOT VALID.**

Explanation: Module *modname*, the CLT or RST defined for use by this CICS system, is not valid.

System action: Further messages are issued by the alternate CICS to describe the action taken.

User response: The appropriate response is indicated by subsequent messages.

Module: DFHWTI

Destination: Console

DFHXA6574I *applid* **ERROR FOUND WITH DFHCLT***xx***.**

Explanation: The alternate CICS that issued this message is unable to load a CLT, or has performed a check on the CLT contents and has found an error. If the specified CLT is used during a future takeover, the takeover might not be successful. A new or corrected CLT can be made available and loaded at takeover.

System action: Processing continues.

User response: Verify that the alternate CICS job is authorized to perform a takeover of the active CICS. Take appropriate action if not.

Locate the previous message issued by this alternate CICS, which provides details of the CLT error.

Perform the appropriate source edit, assembly and link-edit tasks necessary to make a correct CLT available for this alternate CICS.

Module: DFHWTI

Destination: Console

DFHXA6575I *applid* **SUBSYSTEM NAME** *subsysid* **NOT FOUND IN** *rstname* **FOR THIS APPLID.**

Explanation: This is an informational message indicating that RST *rstname*, which was selected via the SIT, does not include an entry for DBCTL subsystem *subsysid* in any RSE containing the specific APPLID *applid* of this CICS.

System action: No action results directly when this message is issued. Other messages may be issued following this verification failure.

User response: Check the RST suffix specified in the SIT, the RST, and the DBCTL subsystem to which CICS is connected.

Check any other messages that may also have been issued.

Module: DFHWTI

Destination: Console

DFHXA6576I *applid* **CLT PROCESSING NOT POSSIBLE OWING TO ERROR IN DFHCLT***xx***.**

Explanation: During takeover, the alternate CICS that issued this message performed a check on the CLT contents and found an error.

A previous message specifies the error.

System action: Commands in the CLT are not issued by this alternate CICS. Other takeover processing continues.

User response: Verify that the alternate CICS job is authorized to perform a takeover of the active CICS and take appropriate action if it is not.

If the takeover is to be successful, the system operator should monitor and coordinate execution of the active CICS and alternate CICS jobs in the XRF complex.

Perform the source edit, assembly and link-edit tasks necessary to correct the CLT.

Module: DFHWTI

Destination: Console

DFHXA6577I *applid* **NOT AUTHORIZED TO CANCEL** *jesno jobname* **ON CEC** *sid***.**

Explanation: The issuing alternate CICS is attempting a takeover of the specified active CICS job. It has been unable to find the data that is needed to fully authorize takeover in the CLT or RST. This may be because the alternate cannot load the table, or because job *jobname* cannot be found

- In the CLT, for an active CICS, or
- In the RST, for a DBCTL subsystem, or
- Because the CLT or RST is invalid.

Further messages specify the error with the CLT or RST, or define why the CLT or RST is invalid.

System action: The issuing CICS system cannot issue a CANCEL, but attempts to alert the active CICS system to the takeover request via the XRF control data set. In most cases this causes the active system to initiate termination. The alternate continues processing to detect termination of the job.

When termination is detected, message DFHXA6563 or DFHXA6564 is displayed.

User response: Verify that the alternate CICS job is authorized to perform a takeover of the active CICS. Take appropriate action if the alternate CICS job is not authorized.

Your CLT and/or RST may require some maintenance action.

Module: DFHWTI

Destination: Console

DFHXA6578I *applid* **NOT AUTHORIZED TO CANCEL** *jesno jobname***.**

Explanation: The issuing alternate CICS is attempting a cancel of the specified active CICS job. It has been unable to find the data that is needed to fully authorize the cancellation in the CLT or RST. This may be because the alternate cannot load the table, or because job *jobname* cannot be found

- In the CLT, for an active CICS, or
- In the RST, for a DBCTL subsystem. or
- Because the CLT or RST is invalid.

Further messages specify the error with the CLT or RST, or define why the CLT or RST is invalid.

System action: The issuing CICS system cannot issue a CANCEL, but attempts to alert the active CICS system to the takeover request via the XRF control data set. In most cases this causes the active system to initiate termination. The alternate continues processing to detect termination of the job.

When termination is detected, message DFHXA6564 is displayed.

User response: Verify that the alternate CICS job is authorized to perform a takeover of the active CICS. Take appropriate action if the alternate CICS job is not authorized.

Your CLT and/or RST may require maintenance action.

Module: DFHWTI

Destination: Console

DFHXA6580I PROGRAM LOGIC ERROR DETECTED.

Explanation: An internal error has been detected that prevents the CICS XRF CAVM supervisor state processing from continuing.

Depending on the CAVM supervisor state service being processed at the time, CICS may or may not abnormally terminate.

The CAVM TCB for processing the service has abnormally terminated.

Job output should include a dump of MVS LSQA associated with the SYSABEND DD statement.

Diagnostics: Register 2 is the base register for DFHWTI global storage. This storage begins with the eye catcher WTISTOR. The format of this storage is defined in DSECT WSTORAGE in source member DFHWTI.

DFHWTI request arguments copied to global storage begin at field WGLODATA.

Source member DFHWTADS defines the format of global storage arguments.

Field WGLOLOCA contains the address of the first register save area for a routine in DFHWTI.

In the SVRB for the CICS SVC call that invoked DFHWTI, the first *fullword* in the FEPARM field contains the address of DFHWTI global storage.

Register 4 is the base register for local storage for each routine in DFHWTI. Its format is defined in a DSECT whose name is of the form WLOC*xxx* where *xxx* is the short name of the routine (see below for a list of routine names).

These DSECTs are in source member DFHWTI. The first *halfword* is the internal return code for the routine. The values used for internal return codes are the same as the DFHWTI request reason codes as defined in source member DFHWTADS field name WTARRC.

In addition, internal return codes of the format X'40nn are used. X'40F0 is 'Internal Logic Error' variable name, RCLOGERR.

Other internal return codes of this format are defined in the local storage DSECTs.

The DFHWTI request type for the CAVM supervisor state service is copied into local storage associated with the DFHWTI initialization and termination routine, field name WWTIREQ, DSECT WLOCWTI in source member DFHWTI.

Register 6 is the base register for each routine in DFHWTI. When set, it points at a location immediately following an eye catcher of the routine's long name (see list of routine names).

Register 13 is the base register for a register save area local to a routine in DFHWTI. These save areas are standard MVS format except the first *fullword* contains

the routine's short name (see list of names). They are chained in the standard way with backward and forward pointers set on entry to a routine and zeroed on return.

Register save areas physically precede the storage local to a routine.

If a routine has to access the CLT, its address is in local storage for the routine. The field name for the CLT address is of the form W*xxx*CLTA, where *xxx* is the short name of the routine.

System action: In general, the CAVM request issued by this CICS job will fail. For the effect this has on processing by this CICS job, refer to messages issued after this one.

CAVM XRF supervisor state processing issues an MVS abend with system abend code 0214 and an MVS SYSABEND dump is produced.

User response: Keep the job output and console log for problem determination.

Using the SYSABEND dump of the MVS LSQA, and if available, the MVS symptom dump output, find the DFHWTI routine that detected the error from the value of register 6 or register save area chain fields.

Find the internal return code currently set in local storage for the routine.

Using the reason code value, remaining content of local storage and global storage, try to determine the cause of the action by the routine.

An assembly listing of the CLT assembled with the PRINT NOGEN option may be required.

Routine names Long names are used for
- The routine entry point name, and
- The routine entry eye catcher.

Short names are used for
- The routine register save area eye catcher,
- Characters 2 to 4 of routine local storage field names,
- Characters 5 to 7 of routine local storage DSECT names, and
- Characters 1 to 3 of routine labels.

Routines are as follows

Long Name
Short Name

(1) WTI

TIPENTRY
TIP

OATERM
OAT

OAWAIT
OAW

VERCLT
VCL

CLPENTRY
CLE

CLPROC
CLP

OPCLT OCL

CHECKT
CHT

OPCDATA
OPC

INQJES
IJE

TSSENTRY
TSS

MUVENTRY
MUV

VAXENTRY
VAX

SCMENTRY
SCM

DXRENTRY
DXR

IJESSUB(2)
*

1. Module entry point with standard DFHVM fields.
2. Subtask with start of module as entry point and using SIJSTOR for local storage.

For further guidance in error diagnosis, see the *CICS Problem Determination Guide*.

Module: DFHWTI

Destination: Console

DFHXA6581I *applid* **UNABLE TO DETERMINE STATUS OF JOB** *jesno jobname*.

Explanation: The issuing CICS system was unable to determine whether job *jobname*, running on the same CEC, has terminated. This is for one of the following reasons

1. CICS was unable to issue a system operator command under program control to cancel the named job. In this case, message DFHXA6560 has been produced.
2. CICS has successfully issued a cancel command, but the job still appears to be running after the time period specified by the initialization parameter JESDI.
3. Job *jobname* is a failing DBCTL subsystem, but the job still appears to be running after the time period specified by the initialization parameter JESDI.

If *jobname* is the active CICS, takeover cannot continue until *jobname* has ended.

If *jobname* is a DBCTL subsystem, an alternate DBCTL cannot be started until *jobname* has ended.

System action: Takeover is suspended until the issuing CICS system detects the termination of the named job.

When termination is detected the message DFHXA6564 is displayed.

User response: Ensure that the active CICS job terminates.

Module: DFHWTI

Destination: Console

DFHXA6582I *applid* **UNABLE TO DETERMINE STATUS OF JOB** *jesno jobname* **ON MVS SYSTEM** *mvsname*(*sid*)**.**

Explanation: The issuing CICS system was unable to determine whether job *jobname*, running on MVS image *mvsname*, has terminated. This is for one of the following reasons

- CICS was unable to issue a system operator command under program control to cancel the named job. In this case, message DFHXA6560, DFHXA6569, or DFHXA6570 has been produced.
- CICS has successfully issued a cancel command, but the job still appears to be running after the time period specified by the initialization parameter JESDI.
- Job *jobname* is a failing DBCTL subsystem, but the job still appears to be running after the time period specified by the initialization parameter JESDI.

If *jobname* is the active CICS, takeover cannot continue until *jobname* has ended.

If *jobname* is a DBCTL subsystem, an alternate DBCTL cannot be started until *jobname* has ended.

System action: Takeover is suspended until the issuing CICS system detects the termination of the named job.

When termination is detected the message DFHXA6583 is displayed.

User response: Ensure that the active CICS job terminates.

Module: DFHWTI

Destination: Console

DFHXA6583I *applid* **TERMINATION OF JOB** *jesno jobname* **ON MVS SYSTEM** *mvsname*(*sid*) **HAS BEEN DETECTED.**

Explanation: During takeover, the alternate CICS has detected that the active CICS job *jobname* with JES job number *jesno* running on MVS image *mvsname* has ended.

System action: The CICS alternate continues takeover processing.

User response: None.

Module: DFHWTI

Destination: Console

DFHXCnnnn messages

DFHXC6600I *applid* **CAVM DATA SET INITIALIZATION FAILED.**

Explanation: The CICS job which displayed this message attempted to sign on to the CAVM but the signon request failed because the CAVM data sets could not be initialized properly. This is due to one of the following

- The data set formatting subtask had not completed its processing in 2 minutes. This might occur if reserves issued by jobs (not necessarily CICS) running in other CECs cause a CAVM data set's DASD volume or a VSAM catalogue to remain inaccessible for a protracted period.
- SIGNON found that one of the CAVM data sets had already been formatted by a different CICS job but that the other was either empty or could not be opened because of conflict with another user of the data set. SIGNON waited for the other CICS job to finish the data set formatting, but 5 minutes later, this still had not been done. This might occur if a CICS job failed during data set formatting. A specific error reported in a previous message prevented successful completion of data set initialization.

System action: See following message issued by this CICS job.

User response: Correct the JCL or redefine the CAVM data sets if necessary and resubmit the CICS job. See the *CICS System Definition Guide* for information on CAVM data sets.

Module: DFHWSSN3

Destination: Console

DFHXC6601I *applid* **DD STATEMENT MISSING FOR CAVM DATA SET** *dsname*

Explanation: The CICS job which displayed this message issued a SIGNON to the CAVM. The CAVM is attempting to open the CAVM data sets, but the error condition described in the message text has been detected.

System action: See following message issued by this CICS job.

User response: See message DFHXC6600

Module: DFHWSSN3

Destination: Console

DFHXC6602I *applid* **CAVM DATA SET** *dsname* **MUST RESIDE ON DASD.**

Explanation: The CICS job which displayed this message issued a SIGNON to the CAVM. The CAVM is attempting to open the CAVM data sets, but the error condition described in the message text has been detected.

System action: See following message issued by this CICS job.

User response: See message DFHXC6600

Module: DFHWSSN3

Destination: Console

DFHXC6603I *applid* **CAVM DATA SET** *dsname* **IS INVALID.**

Explanation: The CICS job which displayed this message issued a SIGNON to the CAVM. The CAVM is attempting to open the CAVM data sets, but the error condition described in the message text has been detected.

System action: See following message issued by this CICS job.

User response: See message DFHXC6600

Module: DFHWSSN3

Destination: Console

DFHXC6604I *applid* **CAVM DATA SET** *dsname* **MUST BE A VSAM ESDS.**

Explanation: The CICS job which displayed this message issued a SIGNON to the CAVM. The CAVM is attempting to open the CAVM data sets, but the error condition described in the message text has been detected.

System action: See following message issued by this CICS job.

User response: See message DFHXC6600

Module: DFHWSSN3

Destination: Console

DFHXC6605I *applid* **CI SIZE OF PAIRED CAVM DATA SETS MUST BE EQUAL.**

Explanation: The CICS job which displayed this message issued a SIGNON to the CAVM. The CAVM is attempting to open the CAVM data sets, but the error condition described in the message text has been detected.

System action: See following message issued by this CICS job.

User response: See message DFHXC6600

Module: DFHWSSN3

Destination: Console

DFHXC6606I *applid* **CI SIZE OF CAVM DATA SET** *dsname* **MUST BE AT LEAST 4K.**

Explanation: The CICS job which displayed this message issued a SIGNON to the CAVM. The CAVM is attempting to open the CAVM data sets, but the error condition described in the message text has been detected.

System action: See following message issued by this CICS job.

User response: See message DFHXC6600

Module: DFHWSSN3

Destination: Console

DFHXC6607I *applid* **SIGNON IS WAITING TO RESERVE OR ACCESS CAVM DATA SET** *dsname*

Explanation: The CICS job which displayed this message issued a sign on to the CAVM. CAVM is attempting to reserve or access the CAVM data set indicated in the message text, but for some considerable time, either the required resource has remained unavailable or an outstanding I/O request has not completed. The reason for issuing this particular message cannot be failure of a conditional reserve request unless new empty CAVM data sets are being used for the first time. The reserve attempt should not fail anyway unless another CICS job using the same CAVM data set and executing a sign on, sign-off or takeover request has been held up, possibly by I/O delays, after issuing a successful reserve. I/O delay might be caused by reserves issued by jobs (not necessarily CICS) running in other CECs that have made the CAVM data set's DASD volume temporarily inaccessible.

System action: After a short delay, the CICS job that displayed this message either reissues the conditional reserve macro or checks for completion of the outstanding I/O. If the required resource is now available or the I/O request has completed, normal processing continues. Otherwise, this message is reissued.

User response: None, unless the condition persists. If so, another CEC might have failed after reserving the DASD volume containing a CAVM data set. In this case, follow your installation's operations procedure for

removing an outstanding reserve for a shared DASD. (For example, issue system reset on the failed CEC.)

Module: DFHWSSN3

Destination: Console

DFHXC6608I *applid* **I/O ERROR ACCESSING CAVM DATA SET** *dsname* **DURING SIGNON.**

Explanation: The CICS job which displayed this message issued a SIGNON to the CAVM. The CAVM is attempting to access the CAVM data sets, but the error condition described in the message text has been detected.

System action: See following message issued by this CICS job.

User response: See message DFHXC6600

Module: DFHWSSN3

Destination: Console

DFHXC6609I *applid* **CAVM DATA SET** *dsname* **IS OF THE WRONG TYPE OR ITS FORMAT IS INCOMPATIBLE WITH THIS CODE LEVEL.**

Explanation: The CICS job that displayed this message issued a SIGNON to the CAVM. However, the CAVM found that the information in the data set's control record either did not agree with its intended use or had been placed there by an incompatible level of CAVM code. This will occur if

- The data set with ddname DFHXRCTL is not empty and has already been used for something other than a CAVM control data set or by an incompatible level of CAVM code.
- The data set with ddname DFHXRMSG is not empty and has already been used for something other than a CAVM message data set or by an incompatible level of CAVM code.

System action: See following message issued by this CICS job.

User response: See message DFHXC6600

Module: DFHWSSN3

Destination: Console

DFHXC6610I *applid* **CAVM DATA SET** *dsname* **DOES NOT BELONG TO THE GENERIC APPLID SPECIFIED AT SIGNON.**

Explanation: The CICS job which displayed this message issued a SIGNON to the CAVM. However, the CAVM found that the generic APPLID specified in the sign on request did not match that saved in the CAVM data set's control record when the data set was first formatted.

System action: See following message issued by this CICS job.

User response: See message DFHXC6600

Module: DFHWSSN3

Destination: Console

DFHXC6611I *applid* **CAVM DATA SETS DO NOT FORM A VALID PAIR.**

Explanation: The CICS job that displayed this message issued a SIGNON to the CAVM. However, the CAVM found that the time stamps that were placed in the control records of the two data sets when they were first formatted do not match. This will occur unless the two CAVM data sets were used for the first time as a pair by a single CICS job.

System action: See following message issued by this CICS job.

User response: See message DFHXC6600

Module: DFHWSSN3

Destination: Console

DFHXC6612I *applid* **MULTIPLE VOLUMES ARE NOT SUPPORTED FOR CAVM DATA SET** *dsname*

Explanation: The CICS job that displayed this message issued a SIGNON to the CAVM. The CAVM is attempting to OPEN the CAVM data sets but the error condition described in the message text has been detected.

System action: See following message issued by this CICS job.

User response: See message DFHXC6600

Module: DFHWSSN3

Destination: Console

DFHXC6613I *applid* **MULTIPLE UNITS ARE NOT SUPPORTED FOR CAVM DATA SET** *dsname*

Explanation: The CICS job which displayed this message issued a SIGNON to the CAVM. The CAVM is attempting to open the CAVM data sets but the error condition described in the message text has been detected.

System action: See following message issued by this CICS job.

User response: See message DFHXC6600

Module: DFHWSSN3

Destination: Console

DFHXC6614I *applid* **CONCATENATION IS NOT SUPPORTED FOR CAVM DATA SET** *dsname*

Explanation: The CICS job which displayed this message issued a SIGNON to the CAVM. The CAVM is attempting to open the CAVM data sets, but the error condition described in the message text has been detected.

System action: See following message issued by this CICS job.

User response: See message DFHXC6600

Module: DFHWSSN3

Destination: Console

DFHXC6615I *applid* **ALLOCATION CHANGE DURING SIGNON IS NOT SUPPORTED FOR CAVM DATA SET** *dsname*

Explanation: The CICS job which displayed this message issued a SIGNON to the CAVM. The CAVM is attempting to OPEN the CAVM data sets, but the error condition described in the message text has been detected.

System action: See following message issued by this CICS job.

User response: See message DFHXC6600

Module: DFHWSSN3

Destination: Console

DFHXC6616I *applid* **CAVM CONTROL AND MESSAGE DATA SETS MUST BE DISTINCT.**

Explanation: The CICS job which displayed this message issued a SIGNON to the CAVM. The CAVM is attempting to format the CAVM data sets, but the ddnames DFHXRMSG and DFHXRCTL refer to the same data set.

System action: See following message issued by this CICS job.

User response: See message DFHXC6600

Module: DFHWSSN3

Destination: Console

DFHXC6617I *applid* **OBTAIN ERROR WHILE FORMATTING CAVM DATA SET** *dsname*

Explanation: The CICS job which displayed this message issued a SIGNON to the CAVM. The CAVM is attempting to gain exclusive access to a CAVM data set to format it. The CAVM issued a reserve macro specifying the DASD device allocated for the data set and then issued an OBTAIN macro for the volume's Format-4 DSCB to cause a hardware reserve command to be executed if necessary. Possible causes of the OBTAIN failure are

- Specified volume not mounted
- I/O error
- VTOC is invalid.

System action: See following message issued by this CICS job.

User response: See message DFHXC6600

Module: DFHWSSN3

Destination: Console

DFHXC6618I *applid* **SPACE ALLOCATED TO CAVM DATA SET** *dsname* **IS INADEQUATE.**

Explanation: The CICS job which issued this message issued a SIGNON to the CAVM. The CAVM is attempting to format the CAVM data sets, but the error condition described in the message text has been detected.

System action: See following message issued by this CICS job.

User response: See message DFHXC6600

Module: DFHWSSN3

Destination: Console

DFHXC6620I *applid* **SIGNON IS WAITING TO RESERVE OR ACCESS A CAVM DATA SET.**

Explanation: The CICS job that displayed this message issued a sign on to the CAVM. CAVM is attempting to reserve the CAVM control data set or access either the control or the message data set, but for some considerable time either the required resource has remained unavailable or an outstanding I/O request has not completed. The reserve attempt should not fail unless another CICS job using the same CAVM data set and executing a sign on, sign-off or takeover request has been held up, possibly by I/O delays, after issuing a successful reserve. I/O delay might be caused by reserves issued by jobs (not necessarily CICS) running in other CECs that have made the CAVM data set's DASD volume temporarily inaccessible.

System action: See message DFHXC6607.

User response: See message DFHXC6607.

Module: DFHWSSN2

Destination: Console

DFHXC6621I *applid* **CAVM SIGNON CANNOT PROCEED BECAUSE JES IS EITHER NOT RUNNING OR NOT RESPONDING TO JOB STATUS ENQUIRIES.**

Explanation: The CICS job that displayed this message issued a sign on to the CAVM. To process the request, CAVM needs to know the status of a job identified by an entry in the control data set, but cannot obtain this information for the reason given in the message text.

System action: After a one minute delay, the CICS job that displayed this message reissues the failing job status enquiry. If the request is completed successfully this time, normal processing continues. Otherwise, this message is reissued.

User response: If JES is not running, restart it if possible. Otherwise, if the condition persists, try to correct the problem that is preventing job status enquiries from being answered. In some cases, just stopping JES and restarting it again may achieve the desired effect. In a JES2 environment, a possible cause of this trouble is that another CEC has failed after reserving the DASD volume containing the check-point data set. See message DFHXC6607. In a JES3 environment, job status enquiries cannot be answered if the global processor has failed.

Module: DFHWSSN2

Destination: Console

DFHXC6622I *applid* **ERROR IN INQUIRE HEALTH EXIT DURING SIGNON.**

Explanation: The CICS job that displayed this message issued a SIGNON to the CAVM, but the return code passed back to CAVM by the INQUIRE HEALTH exit (DFHXRC) when it was called during sign on processing was nonzero. This message always indicates an internal error in CAVM or CICS.

System action: CAVM SIGNON continues but XRF function is probably degraded.

User response: Inform your installation's system programmer.

Module: DFHWSSN2

Destination: Console

DFHXC6623I *applid* **CAVM SIGNON IMPOSSIBLE AT PRESENT BECAUSE ANOTHER JOB HAS SIGNED ON WITH THE SAME SPECIFIC APPLID.**

Explanation: The CICS job which issued this message issued a SIGNON to the CAVM, but the request cannot be accepted because the error condition described in the message text has been detected.

System action: See following message issued by this CICS job.

User response: None unless the wrong specific applid has been requested for the new job or the conflicting job was started by mistake. If so, resubmit the failing CICS job with appropriate corrections or after canceling the conflicting job.

Module: DFHWSSN2

Destination: Console

DFHXC6624I *applid* **CAVM SIGNON IMPOSSIBLE BECAUSE SMF IS NOT ACTIVE FOR THE REQUESTING JOB.**

Explanation: The CICS job which issued this message issued a SIGNON to the CAVM, but the request cannot be accepted because the error condition described in the message text has been detected.

System action: See following message issued by this CICS job.

User response: Re-IPL the MVS system, ensuring that the system parameters chosen include SMF.

Module: DFHWSSN2

Destination: Console

DFHXC6625I *applid* **CAVM SIGNON IMPOSSIBLE BECAUSE CAVM DATA SETS ARE UNUSABLE.**

Explanation: The CICS job which issued this message issued a SIGNON to the CAVM, but the request cannot be accepted because the error condition described in the message text has been detected.

System action: See following message issued by this CICS job.

User response: See message DFHXC6600

Module: DFHWSSN2

Destination: Console

DFHXC6626D *applid* **POSSIBLE CAVM SIGNON CONFLICT. IS JOB** *jobname,jesno* **RUNNING ON SYSTEM** *sid***? REPLY 'YES' OR 'NO'.**

Explanation: The CICS job which issued this message issued a SIGNON to the CAVM but the CAVM needs the operator's help in order to decide whether it is safe to accept the request. The CAVM has found that the control data set refers to a job satisfying all the following conditions

- JES believes that this job is still executing.
- If JES is right, the current sign on request must be rejected because the presence of this job would conflict with it.

- This job is not running in the same CEC as the CICS job which is attempting to sign on.
- This job's surveillance signals appear to be absent.

Such a situation might have arisen as a result of a failure of the CEC in which the conflicting job was running and if so, the CAVM should not reject the sign on request unless it finds another reason for doing so. If the job which displayed this message is a CICS active, the conflicting job is another active or an alternate which has started a takeover. If the job which displayed this message is a CICS alternate, the conflicting job is another alternate. The jobname, JES job identifier and CEC SMF identifier of the conflicting job are specified in the message text.

System action: The CICS job waits for a reply.

User response: If the job which displayed this message is a CICS active job, reply NO only if

1. You are certain that the job referred to in the message text is not executing. It might be necessary to perform a System Reset of the CEC where it was running to guarantee this.

   AND

2. The job which issued this message ought to continue with its CAVM sign on request and become the CICS active job.

Otherwise reply YES.

If the job which displayed this message is a CICS alternate job, reply NO only if

1. You are certain that the job referred to in the message text is not executing. It might be necessary to perform a System Reset of the CEC where it was running to guarantee this.

   AND

2. The job which issued this message ought to continue with its CAVM sign on request and become the CICS alternate job.

Otherwise reply YES.

Module: DFHWSSN2

Destination: Console

DFHXC6627I *applid* **CAVM SIGNON IMPOSSIBLE BECAUSE THIS JOB IS CURRENTLY SIGNED ON OR WAS ONCE AN ACTIVE SYSTEM.**

Explanation: The CICS job which issued this message issued a SIGNON to the CAVM, but the request cannot be accepted because the error condition described in the message text has been detected.

System action: See following message issued by this CICS job.

User response: This message indicates an internal error has occurred.

Module: DFHWSSN2

Destination: Console

DFHXC6628I *applid* **CAVM SIGNON IMPOSSIBLE AT PRESENT BECAUSE CONFLICTING JOB(S) HAVE NOT YET SIGNED OFF OR TERMINATED.**

Explanation: The CICS job which issued this message issued a SIGNON to the CAVM, but the request cannot be accepted because the error condition described in the message text has been detected.

System action: See following message issued by this CICS job.

User response: None unless the wrong START option has been requested for the new job or the conflicting job(s) were started by mistake. If so, resubmit the failing CICS job with appropriate corrections or after canceling the conflicting job(s).

Module: DFHWSSN2

Destination: Console

DFHXC6629I *applid* **CAVM SIGNON IMPOSSIBLE BECAUSE REQUESTING JOB AND SIGNED-ON JOB(S) DO NOT SHARE A COMMON JES JOB QUEUE.**

Explanation: The CICS job which issued this message issued a sign on to the CAVM, but the request cannot be accepted because the error condition described in the message text has been detected.

System action: See following message issued by this CICS job.

User response: If any of the signed on jobs are running under the control of the wrong JES, cancel them. Resubmit the failing job and any that had to be canceled, ensuring that all are running under the control of either a single JES or multiple JESs that share a common job queue.

Module: DFHWSSN2

Destination: Console

DFHXC6630I *applid* **TAKEOVER REJECTED BECAUSE LAST ACTIVE SIGNED OFF NORMALLY.**

Explanation: The CICS job that issued this message issued a takeover request to the CAVM but the request has been rejected due to the error condition described in the message text.

System action: See following message issued by this CICS job.

User response: None

Module: DFHWSTKV

Destination: Console

DFHXC6631I *applid* **TAKEOVER REJECTED BECAUSE LAST ACTIVE INSTANCE NUMBER DOES NOT MATCH THAT SPECIFIED.**

Explanation: The CICS job which issued this message issued a takeover request to the CAVM but the request has been rejected due to the error condition described in the message text. This error would occur if a new CICS active job signed on to the CAVM after this CICS alternate job had already made the decision to attempt to take over from the previous CICS active job.

System action: See following message issued by this CICS job.

User response: None

Module: DFHWSTKV

Destination: Console

DFHXC6632I *applid* **NON PRE-EMPTIVE TAKEOVER REJECTED BECAUSE LATEST ACTIVE VERSION NUMBER DOES NOT MATCH THAT SPECIFIED.**

Explanation: The CICS job which issued this message issued a takeover request to the CAVM but the request has been rejected due to the error condition described in the message text.

System action: See following message issued by this CICS job.

User response: None

Module: DFHWSTKV

Destination: Console

DFHXC6633I *applid* **NON PRE-EMPTIVE TAKEOVER REJECTED BECAUSE A TAKEOVER IS ALREADY IN PROGRESS.**

Explanation: The CICS job which issued this message issued a takeover request to the CAVM but the request has been rejected due to the error condition described in the message text.

System action: See following message issued by this CICS job.

User response: None

Module: DFHWSTKV

Destination: Console

DFHXC6634I *applid* **TAKEOVER REJECTED BECAUSE NECESSARY TOD CLOCK DIFFERENCE INFORMATION IS NOT AVAILABLE.**

Explanation: The CICS job which issued this message issued a takeover request to the CAVM but the request has been rejected due to the error condition described in the message text. This error cannot occur unless both the following conditions are satisfied

- The CICS active and alternate jobs are running in different CECs.
- A TAKEOVER has been attempted before the alternate job has had the chance to observe the active job's surveillance signals for the short time (less than 1 minute) needed to deduce the maximum possible difference between the respective TOD clocks.

The takeover cannot be performed unless the difference between the CECs' TOD clocks is known because normal CICS processing must not be resumed until the current TOD clock reading is later than the TOD clock reading when the old CICS active job terminated as observed in the CEC where it had been running.

System action: See following message issued by this CICS job.

User response: None

Module: DFHWSTKV

Destination: Console

DFHXC6635I *applid* **TAKEOVER PROCESSING TERMINATED BECAUSE ANOTHER BACKUP HAS STARTED A PRE-EMPTIVE TAKEOVER.**

Explanation: The CICS job which issued this message issued a takeover request to the CAVM and the request was accepted, but the error condition described in the message text was encountered before the completion of TAKEOVER.

System action: See following message issued by this CICS job.

User response: None

Module: DFHWSTKV

Destination: Console

DFHXC6636I *applid* **TAKEOVER PROCESSING TERMINATED BECAUSE STATUS OF ACTIVE JOB CANNOT BE DETERMINED.**

Explanation: The CICS job which issued this message issued a takeover request to the CAVM and the request was accepted, but takeover processing could not be completed because of an error encountered in using the CAVM services provided by the CICS SVC.

System action: See following message issued by this CICS job.

User response: For problem determination, consult the *CICS Problem Determination Guide*. The console log and job output may be required.

Module: DFHWSTKV

Destination: Console

DFHXC6637I *applid* **TAKEOVER IS WAITING TO RESERVE OR ACCESS THE CAVM CONTROL DATA SET.**

Explanation: The CICS job that issued this message issued a TAKEOVER request to the CAVM. CAVM is attempting to reserve or access the CAVM control data set in order to process the request, but for some considerable time, either the required resource has remained unavailable or an outstanding I/O request has not completed. The reserve attempt should not fail unless another CICS job using the same CAVM data set and executing a SIGNON, SIGNOFF or TAKEOVER request has been held up, possibly by I/O delays, after issuing a successful reserve.

System action: See message DFHXC6607.

User response: See message DFHXC6607.

Module: DFHWSTKV

Destination: Console

DFHXC6638I *applid* **NOTIFY RC=** *retcode* **-** *text*

Explanation: The CICS job that displayed this message has found that the return code passed back to CAVM by the NOTIFY exit (DFHXRB) was non-zero. The message includes the actual return code value *retcode* (or greater than 99) and some text identifying the type of event which was being processed when the error occurred. This message always indicates either an internal error in CAVM or CICS or that code or data has become corrupted.

System action: Processing continues but XRF function is probably degraded.

User response: Inform your installation's system programmer.

Module: DFHWSTKV

Destination: Console

DFHXC6640I *applid* **ALL STATUS WRITERS ARE IN I/O WAIT.**

Explanation: The CICS job which displayed this message has found that the writes of its latest status issued to the control data set and the message data set are both taking a long time to complete. This might occur if reserves issued by jobs (not necessarily CICS) running in other CECs have made the DASD volumes of both CAVM data sets temporarily inaccessible.

System action: The CICS job re-issues this warning message at intervals until one of its status writes completes. Meanwhile, it continues to perform any processing which is not dependent on status write completion. If the job which displayed this message is a CICS active and the condition persists for long enough, it is possible that an unwanted takeover will be initiated when the alternate (assuming that it is able to read the CAVM data sets because it is running in a different CEC) notices that the active system's surveillance signals have ceased.

User response: If this message is issued by an CICS active job which does not seem to be experiencing other problems, it might be advisable to issue a suitable command to the corresponding alternate job to prevent it from initiating an unnecessary takeover. See also message DFHXC6607.

Module: DFHWSSW

Destination: Console

DFHXC6641I *applid* **STATUS WRITE I/O ERROR ON** *dsname*

Explanation: The CICS job which displayed this message has encountered an I/O error in writing its latest status to either the control data set or the message data set.

System action: If the CICS job is able to write its status successfully to either the control data set or the message data set, processing continues. Further writes to the failing data set might be attempted later on because it is possible that the error condition was transient. If both data sets become unusable simultaneously, the CAVM TCB ABENDs.

User response: Inform your installation's system programmer.

Module: DFHWSSW

Destination: Console

DFHXC6642I *applid* **ALL STATUS READERS ARE IN I/O WAIT.**

Explanation: The CICS job which displayed this message has found that the reads it has issued to the control data set and the message data set to obtain the latest available status of its partner system are both taking a long time to complete. This might occur if reserves issued by jobs (not necessarily CICS) running in other CECs have made the DASD volumes of both CAVM data sets temporarily inaccessible.

System action: The CICS job reissues this warning message at intervals until one of the status reads completes. Meanwhile, it continues to perform any processing which is not dependent on status read completion. If the job which displayed this message is a

CICS alternate, It is possible that a takeover will not be initiated if the active fails, since the alternate cannot detect that the active's surveillance signals have ceased.

User response: See message DFHXC6607.

Module: DFHWSSR

Destination: Console

DFHXC6643I *applid* **STATUS READ I/O ERROR ON** *dsname*

Explanation: The CICS job which displayed this message has encountered an I/O error in reading the latest available status of its partner system from either the control data set or the message data set. *dsname* is the name of the data set.

System action: Processing continues but XRF function will be degraded because the affected system might not be able to detect changes in its partner's status. Further reads from the failing data set might be attempted later on because it is possible that the error condition was transient. If this error is encountered in an alternate system while it is processing a takeover request, the takeover will fail.

User response: Inform your installation's system programmer.

Module: DFHWSSR

Destination: Console

DFHXC6644I *applid* **NOTIFY RC=** *retcode* **-** *text*

Explanation: The CICS job which displayed this message has found that the return code passed back to CAVM by the NOTIFY exit (DFHXRB) was non-zero. The message includes the actual return code value *retcode* (or a value greater than 99) and some text identifying the type of event that was being processed when the error occurred. This message always indicates either an internal error in CAVM or CICS or that code or data has become corrupted.

System action: Processing continues but XRF function is probably degraded.

User response: Inform your installation's system programmer.

Module: DFHWSSR

Destination: Console

DFHXC6645I *applid* **ERROR IN INQUIRE HEALTH EXIT.**

Explanation: The CICS job which displayed this message has found that the return code passed back to CAVM by the INQUIRE HEALTH exit (DFHXRC) was nonzero. This message indicates either an internal error in CAVM or in CICS, or that code or data has become corrupted.

System action: Processing continues but XRF function is probably degraded.

User response: Inform your installation's system programmer.

Module: DFHWSTI

Destination: Console

DFHXC6646I *applid* **ERROR CALLING CICS SVC -** *xxxxxxxxxxx*

Explanation: The CICS job which displayed this message has encountered an error calling the CICS supervisor code (SVC) to determine the status of another MVS image in the same XCF sysplex as the calling CICS MVS image.

System action: Processing continues but XRF function is probably degraded.

User response: Ensure that the correct level of CICS SVC has been specified. Also ensure that MVS has issued an acceptable return code as this error can be caused by a change in MVS response codes. If the error is caused by neither of these, it could be the result of an internal error in CAVM. If this is the case, you need further guidance from IBM. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHWSSR

Destination: Console

DFHXC6649I *applid* **SIGNOFF IS UNABLE TO RESERVE THE CAVM CONTROL DATA SET.**

Explanation: The CICS job which issued this message issued a SIGNOFF request to the CAVM or SIGNOFF processing was invoked implicitly by abnormal termination of the CAVM TCB. CAVM attempted to reserve the CAVM control data set in order to process the request, but for some considerable time, the required resource remained unavailable. The reserve attempt should not fail unless another CICS job using the same CAVM data set and executing a SIGNON, SIGNOFF or TAKEOVER request has been held up, possibly by I/O delays, after issuing a successful reserve.

System action: The CAVM TCB terminates without updating the CAVM data sets to indicate that this CICS job has signed off. See also any following message issued by this CICS job.

User response: None.

Module: DFHWSSOF

Destination: Console

DFHXC6650I *applid* **CAVM HAS FAILED, CODE =** *code*

Explanation: The CICS XRF job that issued this message has encountered an unexpected severe error during CAVM processing. The code *code* in the message identifies both the error, and the CAVM module that detected it, as follows

Errors detected by DFHWSRTR (00xx)

0002 CAVM dispatcher has no ready processes to dispatch and no external event to wait for.

Errors detected by DFHWSSN1 (10xx)

1001 Nonzero return code from ATTACH for CAVM TCB.

Errors detected by DFHWSSN2 (20xx)

2001 Function code in SIGNON parameter block is invalid.

2002 Function modifier in SIGNON parameter block is invalid.

2003 Length of SIGNON parameter block extension is incorrect.

2004 Requested surveillance interval is not positive.

2005 Nonzero return code from ESTAE to establish recovery for CAVM TCB.

2006 Nonzero return code from asynchronous VSAM GET or CHECK while reading the state management record. (This could be caused by an I/O error.)

2007 Nonzero return code from asynchronous VSAM PUT or CHECK while updating the state management record. (This could be caused by an I/O error.)

2008 Nonzero return code from a request to start a check for the presence of surveillance signals.

2009 Unexpected return code from a request to complete a check for the presence of surveillance signals.

200A Nonzero return code from asynchronous VSAM GET or CHECK while reading a status CI to check for the presence of surveillance signals. (This could be caused by an I/O error.)

200B Routine to check for the presence of surveillance signals found that the sequence number in a status CI has decreased.

200C Nonzero return code from asynchronous VSAM GET or CHECK while reading a status CI in order to update it. (This could be caused by an I/O error.)

200D Content of the state management record has changed but its security count is unaltered.

200E Nonzero return code from asynchronous VSAM PUT or CHECK while updating a status CI in the control data set. (This could be caused by an I/O error.)

200F Unexpected return code from the conditional RESERVE macro.

2010 Nonzero return code from VSAM MODCB macro to change OPTCD in RPL to UPD.

2011 Nonzero return code from VSAM MODCB macro to change ACB address in RPL.

2012 Nonzero return code from ATTACH for TCB to issue a job STATUS enquiry request to the CICS SVC.

2013 Unexpected return code from CICS SVC (A version of DFHCSVC which includes XRF support might not have been installed on the MVS/ESA system, or the wrong SVC number might have been specified on the SIT or as an override.)

2014 Unexpected return code from a requested JES job STATUS enquiry function. (This error could also be caused by using a wrong SVC number which does not correspond to any version of the CICS SVC.)

2015 Unexpected return code from a XCF IXCQUERY function.

2016 Unexpected response code from CICS SVC when attempting to determine details of a job that is running under a release of MVS which supports XCF.

2017 Unexpected reason code from CICS SVC when attempting to determine details of a job that is running under a release of MVS which supports XCF.

Errors detected by DFHWSSN3 (30xx)

3001 Nonzero return code from VSAM GENCB macro to build an RPL.

3002 Nonzero return code from VSAM SHOWCB macro to obtain the length of an ACB.

3003 Nonzero return code from VSAM SHOWCB macro to obtain the length of an RPL.

3004 Nonzero return code from VSAM SHOWCB macro to obtain ACB OPEN error code.

3005 Nonzero return code from VSAM SHOWCB macro to obtain ACB CI size and RBA data.

3006 The high-used RBA of a CAVM data set is zero when it should not be empty.

3007 Nonzero return code from asynchronous VSAM GET while reading the Control CI from a CAVM data set.

3008 Nonzero return code from VSAM MODCB macro to change STRNO in an ACB.

3009 Unexpected return code from the conditional RESERVE macro.

300A Nonzero return code from ATTACH for TCB to format a new pair of CAVM data sets.

300B Internal logic error while processing a new pair of CAVM data sets.

300C Nonzero return code from VSAM TESTCB macro to test whether the data set associated with an open ACB is an ESDS.

300D Nonzero return code from VSAM SHOWCB macro to obtain ACB CI size and RBA data during the data set formatting.

300E Nonzero return code from synchronous VSAM PUT while formatting a new pair of CAVM data sets. (This could be caused by an I/O error.)

300F Nonzero return code from VSAM GENCB macro to build an ACB.

3010 Nonzero return code from VSAM SHOWCB macro to obtain ACB CI size and RBA data.

3011 Nonzero return code from VSAM MODCB macro to change the ACB address in RPL.

Errors detected by DFHWSSOF (40xx)

4001 Nonzero return code from VSAM GENCB macro to build RPLs.

4002 Error return code from PURGE macro (SVC 16).

4003 Nonzero return code from VSAM MODCB macro or synchronous GET, or I/O request was purged by the timer exit, when trying to read the state management record. (This could be caused by an I/O error.)

4004 The MVS/ESA system no longer has an SMF SMCA although it existed when this CICS XRF job signed on to the CAVM.

4005 This CICS XRF job no longer has an SMF TCT although it existed at SIGNON.

4006 This CICS XRF job no longer has an SMF JMR although it existed at SIGNON.

4007 State management record contains invalid duplicate entries for this CICS XRF job.

4008 The location of this CICS XRF job's description in the state management record is inconsistent with the current value of SMDR1NDX.

4009 The sequence numbers in this CICS XRF job's pair of status CIs in the control and message data sets are equal but nonzero.

400A Unexpected return code from the conditional RESERVE macro.

400B Unable to RESERVE control data set after repeated attempts.

400C Nonzero return code from VSAM MODCB macro or return code 4 from synchronous PUT when trying to update status CI.

400D Nonzero return code from VSAM MODCB macro or synchronous GET, or I/O request was purged by the timer exit, when trying to update the state management record. (This could be caused by an I/O error.)

Errors detected by DFHWSSR (50xx)

5001 Nonzero return code from VSAM GENCB macro to build an RPL.

5002 The alternate has detected that the active's status CI was still being updated after the active job had signed off or terminated. (This error could be caused by an invalid XRF configuration in which the active and alternate do not share a common JES job queue. The problem was not discovered when the second job signed on to the CAVM because at that time it was unable to detect the first job's surveillance signals.)

5003 The sequence number in a status CI of an XRF partner job has decreased.

5004 The alternate has detected that the sequence numbers in the active's pair of status CIs in the control and message data sets are equal but nonzero.

5005 The estimate of the lower bound of the difference between the active's and alternate's TOD clocks derived from the time-stamp in the status CI which has just been read is greater than the existing estimate of the upper bound of this difference.

5006 The estimate of the upper bound of the difference between the active's and alternate's TOD clocks derived from the time-stamp in the status CI which has just been read is less than the existing estimate of the lower bound of this difference.

5007 The sequence numbers in an XRF partner job's pair of status CIs in the control and message data sets are equal but nonzero.

5008 The sequence number in a status CI of an XRF partner job is now inconsistent with previously observed values.

5009 The instance and version numbers in a status

CI of an XRF partner job are now less than the corresponding values in the public status area.

500A The instance and version numbers in a status CI of an XRF partner job are unaltered but the job state indicator has changed from 'signed off' to 'signed on'.

500B Public status area seems to contain valid data about an XRF partner job before it should.

500C Attempt to indicate that public status is available for another XRF partner job when it is already available for all partners.

500D The alternate has encountered I/O errors in consecutive attempts to read the active's status CIs from both control and message data sets.

500E The alternate has encountered an I/O error in trying to read one of the active's status CIs during a takeover.

500F Logical error return code from VSAM CHECK of an asynchronous GET.

5010 Nonzero return code from asynchronous VSAM GET.

5011 This alternate has been invalidated by the active, probably because of message transmission difficulties. This can also be caused by a message data set that is too small. In this case, increase the size of the message data set to allow the alternate CICS to apply its updates before they are overwritten by those of the active CICS.

Errors detected by DFHWSSW (60xx)

6001 Logical error return code from VSAM CHECK of an asynchronous PUT.

6002 I/O errors have been encountered in consecutive attempts to write to this job's status CIs in both control and message data sets.

6003 Nonzero return code from asynchronous VSAM PUT.

6004 The 'status write completed' event masks have been corrupted.

6005 WSAGINDX has been corrupted.

6006 Nonzero return code from VSAM GENCB macro to build an RPL.

6007 The sequence number in one of this job's status CIs has been corrupted in the control or message data set. (This error could be caused by an invalid XRF configuration in which two actives or two alternates do not share a common JES job queue. The problem was not discovered when the second job signed on to the CAVM because at that time, it was unable to detect the first job's surveillance signals.)

Errors detected by DFHWSTKV (80xx)

8001 Nonzero return code from VSAM GENCB macro to build an RPL.

8002 State management record indicates that the alternate attempting to take over already holds the takeover lock.

8003 State management record indicates that the alternate attempting to take over already holds the resources which are freed by SIGNOFF of the active job.

8004 State management record indicates that the alternate attempting to take over already holds the resources which are freed by termination of the active job.

8005 DFHWTI encountered an error in trying to confirm termination of the active job after the alternate performing the takeover had already acquired the resources freed by the active SIGNOFF.

8006 Another alternate has started a preemptive takeover after this alternate had already acquired the resources freed by the active SIGNOFF.

8007 The time-stamp associated with the resources freed by termination of the active job cannot be updated because an unexpected problem has arisen with the TOD clock difference data after this alternate had already acquired the resources freed by the active SIGNOFF.

8008 Nonzero return code from asynchronous VSAM GET to read the state management record.

8009 Nonzero return code from VSAM CHECK of asynchronous GET for the state management record. (This could be caused by an I/O error.)

800A Nonzero return code from asynchronous VSAM PUT to update the state management record.

800B Nonzero return code from VSAM CHECK of asynchronous PUT for the state management record. (This could be caused by an I/O error.)

800C Nonzero return code from asynchronous VSAM GET to read the state management record in QUIESCE routine.

800D Nonzero return code from VSAM CHECK of asynchronous GET for the state management record in QUIESCE routine. (This could be caused by an I/O error.)

800E Nonzero return code from VSAM MODCB macro to change OPTCD in RPL to UPD.

800F Nonzero return code from VSAM MODCB macro to change OPTCD in RPL to NUP.

8010 Unexpected return code from the conditional RESERVE macro.

8011 Invalid request code passed to the routine which attaches subtask TCBs to issue XRF requests to the CICS SVC.

8012 Nonzero return code from ATTACH for TCB to issue XRF request to the CICS SVC.

8013 Nonzero return code from DETACH for subtask TCB.

The CICS XRF job that issued this message has encountered an unexpected severe error during CAVM processing. The code *code* identifies both the error and the CAVM module that detected it. See message DFHXC6650 in the *CICS Messages and Codes Vol 1* manual for an explanation of these codes.

System action: An ABEND U0218 is issued with a reason code equal to the code in message DFHXC6650. This results in abnormal termination of the CICS XRF job. See also any following messages issued by this CICS XRF job.

User response: Inform your installation's system programmer.

Module: DFHWSRTR, DFHWSSN1, DFHWSSN2, DFHWSSN3, DFHWSSOF, DFHWSSR, DFHWSSW, DFHWSTKV

Destination: Console

DFHXC6651I *applid* **CAVM HAS DETECTED AN INVALID REQUEST.**

Explanation: CAVM has found that the parameter block passed to it is invalid, or that the request is being made at an inappropriate time.

System action: An ABEND U0218 is issued with reason code 1. This results in the abnormal termination of the CICS job. See also any following messages issued by this CICS job.

User response: Restart the failing CICS job and inform your installation's system programmer.

Module: DFHWSRTR

Destination: Console

DFHXGnnnn messages

DFHXG6215 *applid progname operation* **failure, response code** *cccc cccc* **keyrange:** *rrrr{. | key: }key*

Explanation: Table builder services (DFHTBSS) failed in an operation on the global catalog (DFHCCCC).

The failing operation is shown in the message, and is a DELETE, WRITE_NEXT, START_WRITE or END_WRITE. request.

- *cccc cccc* are the response and reason codes from the catalog domain.
- *rrrr* is the internal RQ token passed to the catalog domain.
- *key* appears in the message only for a WRITE or DELETE operation, and usually includes the name of the resource for which CICS failed to record information on the global catalog.

This is normally an internal CICS error, however, it can occur during shut down if one task initiates a normal shut down, and another initiates an immediate shut down shortly afterwards. This is because the immediate shut down closes resources that are being used by the normal shut down task.

This can also occur if the global catalog is not big enough and a large group is being installed.

System action: CICS terminates.

User response: Check the size of the global catalog. Redefine a larger one if necessary.

Alternatively this message could be caused by an immediate shutdown of CICS because tasks not yet quiesced may abend trying to access a service removed by the shutdown process.

Module: DFHTBSS

XMEOUT Parameters: *applid, progname, operation, cccc, cccc, rrrr,{1=., 2= key: }, key*

Destination: Console

DFHXG6400I *applid* **Signing on to the CAVM as active with generic APPLID** *genericid*

Explanation: This is an informational message issued from the CICS TCB. It indicates that the system is about to sign on to the CICS availability manager (CAVM) as active. The message insert provides the generic applid.

System action: CICS initialization is delayed until the signon request has been processed.

In general the delay is insignificant. In those cases where the delay is significant messages are produced by the CAVM to note the reasons.

User response: None.

Module: DFHXRA

XMEOUT Parameters: *applid, genericid*

Destination: Console

DFHXG6401I *applid* **Sign on to the CAVM as active accepted**

Explanation: This is an informational message issued from the CICS TCB. It indicates that the signon request (refer to message DFHXG6400) has been accepted by the CAVM.

System action: CICS initialization is resumed.

User response: None

Module: DFHXRA

XMEOUT Parameter: *applid*

Destination: Console

DFHXG6402I *applid* **Sign on to the CAVM as active rejected**

Explanation: This is an informational message issued from the CICS TCB. It indicates that the signon request has been rejected by the CAVM. (Refer to message DFHXG6400.) Messages are produced by the CAVM to note the reasons for rejecting the request.

System action: CICS is terminated abnormally.

User response: Refer to message DFHXG6439 for further information and guidance. Correct the errors.

Module: DFHXRA

XMEOUT Parameter: *applid*

Destination: Console

DFHXG6403I *applid* **Sign on of** *specificid* **to the CAVM as alternate detected.**

Explanation: This is an informational message issued from the CICS TCB. It indicates that CICS has been notified that the named alternate CICS has signed on to the CAVM.

System action: Transaction CXCU is attached to send keypoint data to alternate CICS.

User response: None.

Module: DFHXRSP

XMEOUT Parameters: *applid, specificid*

Destination: Console

DFHXG6404I *applid* **SIGNING OFF NORMALLY FROM THE CAVM.**

Explanation: This is an informational message issued from the CICS TCB. It indicates that the system is about to sign off normally from the CAVM.

System action: CICS termination is delayed until the sign off request has been processed.

User response: None.

Module: DFHXRF

Destination: Console

DFHXG6405I *applid* **SIGN OFF NORMAL FROM THE CAVM ACCEPTED.**

Explanation: This is an informational message issued from the CICS TCB. It indicates that the sign off request has been accepted by the CAVM. (Refer to message DFHXG6404).

System action: CICS termination is continued.

User response: None.

Module: DFHXRF

Destination: Console

DFHXG6406I *applid* **SIGN OFF NORMAL FROM THE CAVM REJECTED.**

Explanation: This is an informational message issued from the CICS TCB. It indicates that the system is about to sign off abnormally from the CAVM.

System action: CICS termination is delayed until the sign off request has been processed.

User response: None.

Module: DFHXRF

Destination: Console

DFHXG6407I *applid* **Sign off normal from the CAVM detected.**

Explanation: This is an informational message issued from the CICS TCB. It indicates that CICS has been notified that alternate CICS has signed off from the CAVM.

System action: CICS processing continues.

User response: None.

Module: DFHXRSP

XMEOUT Parameter: *applid*

Destination: Console

DFHXG6408I *applid* **SIGNING OFF ABNORMALLY FROM THE CAVM.**

Explanation: This is an informational message issued from the CICS TCB. It indicates that the sign off request has been accepted by the CAVM.

System action: CICS termination continues.

User response: None.

Module: DFHXRF

Destination: Console

DFHXG6409I *applid* **SIGN OFF ABNORMAL FROM THE CAVM ACCEPTED.**

Explanation: This is an informational message issued from the CICS TCB. It indicates that the sign off request has been accepted by the CAVM. (Refer to message DFHXG6408).

System action: CICS termination continues.

User response: None.

Module: DFHXRF

Destination: Console

DFHXG6410I *applid* **SIGN OFF ABNORMAL FROM THE CAVM REJECTED.**

Explanation: This is an informational message issued from the CICS TCB. It indicates that the sign off request has been rejected by the CAVM. (Refer to message DFHXG6408.)

Messages are produced by the CAVM to note the reasons for rejecting the request.

System action: CICS termination continues.

User response: Refer to the messages produced by the CAVM for further information.

Module: DFHXRF

Destination: Console

DFHXG6411I *applid* **Sign off abnormal from the CAVM detected.**

Explanation: This is an informational message issued from the CICS TCB. It indicates that CICS has been notified that the alternate CICS has signed off from the CAVM.

System action: The system continues with normal processing. However, you should be aware that takeover does not occur if the active CICS fails.

User response: Determine the reason for the abnormal sign-off.

Module: DFHXRSP

XMEOUT Parameter: *applid*

Destination: Console

DFHXG6415I *applid* **CICS is being taken over. Execution will be terminated.**

Explanation: This is an informational message issued from the CICS TCB. It indicates that CICS has been notified that the CAVM has accepted a takeover request from alternate CICS.

System action: CICS is terminated abnormally with abend code 206.

User response: None.

Module: DFHXRSP

XMEOUT Parameter: *applid*

Destination: Console

DFHXG6416I *applid* **APPARENT FAILURE OF ALTERNATE CICS DETECTED.**

Explanation: This is an informational message issued from the CICS TCB. It indicates that CICS has been notified that the alternate CICS appears to have failed.

System action: The system continues with normal processing. However, you should be aware that takeover may not occur should the active CICS fail.

User response: Determine the reason for the apparent failure of the alternate CICS.

Module: DFHXRSP

Destination: Console

DFHXG6417I *applid* **Recovery of alternate CICS detected.**

Explanation: This is an informational message issued from the CICS TCB. It indicates that CICS has been notified that alternate CICS has recovered from the apparent failure reported by message DFHXG6416.

System action: The system continues with normal processing.

User response: None.

Module: DFHXRSP

XMEOUT Parameter: *applid*

Destination: Console

DFHXG6422I *applid* **Sign off normal from the CAVM assumed.**

Explanation: This is an informational message issued from the CICS TCB. It indicates that CICS has assumed that the alternate CICS has signed off from the CAVM.

This is likely to occur when the active CICS is running on CEC 1 and

1. the CICS alternate is started on CEC 2, or
2. the CEC 2 initial program load is repeated, or
3. CICS alternate is restarted on CEC 2.

System action: CICS processing is continued.

User response: None.

Module: DFHXRSP

XMEOUT Parameter: *applid*

Destination: Console

DFHXG6423I *applid* **CAVM failure detected. CICS cannot continue as active.**

Explanation: This is an informational message issued from the CICS TCB. It indicates that CICS has been notified that the CAVM has failed.

Messages are produced by the CAVM to note the reasons for failure.

System action: CICS terminates abnormally with abend code 212.

User response: Correct the error.

Module: DFHXRSP

XMEOUT Parameter: *applid*

Destination: Console

DFHXG6427I *applid* **Terminal control restart task has failed. CICS execution will be terminated.**

Explanation: This is an informational message issued from the CICS TCB. It indicates that the terminal control restart task has failed. It is no longer possible for CICS to continue either as active or as alternate.

Messages are produced by the terminal control restart task to note the reasons for failure.

System action: CICS terminates abnormally with abend code 209.

User response: Correct the error.

Module: DFHXRSP

XMEOUT Parameter: *applid*

Destination: Console

DFHXG6429I *applid* **Transaction CXCU cannot be attached.**

Explanation: This is an informational message issued from the CICS TCB. It indicates that CICS is unable to attach transaction CXCU. Therefore, CICS is unable to initiate the transmission of tracking messages. Takeover is adversely affected if CXCU cannot be attached. This can occur if

1. CXCU is not defined to CICS, or
2. CICS is short on storage

System action: CICS attempts to attach CXCU at regular intervals.

User response: Either install CXCU using RDO, or alleviate the storage shortage.

Module: DFHXRSP

XMEOUT Parameter: *applid*

Destination: Console

DFHXG6439I *applid* **CICS startup is terminated for reasons given above.**

Explanation: This is an informational message indicating that CICS startup is terminated.

System action: CICS is terminated abnormally with a dump.

User response: Refer to previous messages that have been sent to the system console for further guidance.

Module: DFHSIC1

XMEOUT Parameter: *applid*

Destination: Console

DFHXG6440I I/O ERROR ON XRF MESSAGE DATA SET. RPL ADDRESS = HEX'*xx*'.

Explanation: VSAM reported a physical I/O error on the XRF message data set. The address X'*xx* is that of the VSAM RPL which reported the error.

System action: Surveillance by the XRF system ceases.

User response: It is necessary to restart both the active and alternate CICS systems with a fresh pair of surveillance data sets. For diagnostic purposes, the message gives the address of the RPL being used at the time the error was reported. The RPL has an associated VSAM message area.

Module: DFHWMMT

Destination: Console

DFHXG6441I LOGICAL ERROR ON XRF MESSAGE DATA SET. VSAM FEEDBACK DATA = HEX' *xx*'.

Explanation: VSAM reported a logical error on the XRF message data set.

System action: Surveillance by the XRF system ceases.

User response: This is an error in the CICS system. For diagnostic purposes the message contains the VSAM feedback data for the error.

Module: DFHWMMT

Destination: Console

DFHXG6442I INTERNAL ERROR IN XRF MESSAGE MANAGER.

Explanation: Request chains maintained by the CICS message manager are in an inconsistent state.

System action: Surveillance by the XRF system ceases.

User response: You need further assistance from IBM to resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHWMQS

Destination: Console

DFHXG6443I INTERNAL ERROR IN XRF SURVEILLANCE COMPONENT.

Explanation: An invalid internal call has been made to a routine in XRF surveillance component.

System action: Surveillance by the XRF system ceases.

User response: You need further assistance from IBM to resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHWCCS

Destination: Console

DFHXG6444I VSAM REQUEST REJECTED FOR XRF MESSAGE DATA SET.

Explanation: A VSAM PUT or GET request directed to the XRF message data set has been rejected.

System action: Surveillance by the XRF system ceases.

User response: You need further assistance from IBM to resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHWMMT

Destination: Console

DFHXG6445I XRF MESSAGE DATA SET FORMATTING STARTED.

Explanation: The XRF message data set is new and must be formatted before it can be used to pass messages from the active to the alternate.

System action: Normal service continues.

User response: Depending on the size of the message data set, there will be some delay before the active can send messages to the alternate. It may be advisable to defer starting an alternate system until the corresponding message DFHXG6446 has been received.

Module: DFHWMMT

Destination: Console

DFHXG6446I XRF MESSAGE DATA SET FORMATTING COMPLETED.

Explanation: The XRF message data set has now been formatted. It can be used to pass messages from the active to the alternate.

System action: Normal service continues.

User response: None. See message DFHXG6445.

Module: DFHWMMT

Destination: Console

DFHXG6447I NON CRUCIAL XRF MESSAGE(S) DISCARDED.

Explanation: The XRF message data set is full. Some messages are being discarded in preference to invalidating the alternate system by overwriting messages that it has not yet read.

System action: Normal service continues.

User response: This situation is likely to arise in circumstances similar to those described for message DFHXA6541. The alternate has not yet become invalid but is likely to become so and corrective action is warranted. Refer to message DFHXA6541 for further guidance.

Module: DFHWMWR

Destination: Console

DFHXG6450I SVC GETMAIN FAILED IN XRF SURVEILLANCE.

Explanation: An SVC GETMAIN issued by the CICS surveillance component has failed. The GETMAIN may have been issued under either the CICS TCB or the XRF TCB.

System action: An MVS abend 0190 is issued.

User response: Since the GETMAIN requests storage above the 16MB line, it is extremely unlikely that the request cannot be satisfied.

A system error may have occurred. If this is the case, you will require further assistance from IBM. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHWCCS

Destination: Console

DFHXG6451I SVC GETMAIN FAILED IN XRF SURVEILLANCE.

Explanation: An SVC GETMAIN issued by the CICS surveillance component has failed. The GETMAIN may have been issued under either the CICS TCB or the XRF TCB.

System action: An MVS abend 0191 is issued.

User response: Since the GETMAIN requests storage above the 16MB line it is extremely unlikely that the request cannot be satisfied.

A system error may have occurred. If this is the case, you will need further assistance from IBM. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHWLGET

Destination: Console

DFHXG6452I INTERNAL ERROR IN XRF SURVEILLANCE.

Explanation: A consistency check made by the XRF LIFO storage manager has failed. The failure may have occurred while running under either the CICS TCB or the XRF TCB.

System action: An MVS abend 0192 is issued.

User response: You need further assistance from IBM to resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHWLFRE

Destination: Console

DFHXG6453I INTERNAL ERROR IN XRF SURVEILLANCE.

Explanation: A consistency check made by the XRF process manager has failed. A process has made an invalid internal lock request.

System action: An MVS abend 0193 is issued.

User response: You need further assistance from IBM to resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHWDWAT

Destination: Console

DFHXG6454I PROGRAM CHECK IN XRF SURVEILLANCE. PSW = HEX'*xx*' '*xx*'. ADDRESS OF EPIE COPY = HEX'*xx*'.

Explanation: A program check occurred from which the XRF process was unable to recover.

System action: An MVS abend 0194 is issued and a dump is produced.

User response: This is an error in the CICS system. The message gives the PSW at which the check occurred. Further information is preserved in the dump.

You need further assistance from IBM to resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHWDSRP

Destination: Console

DFHXG6475 *applid iiii* **Backup simlogon(s) abandoned**

Explanation: An XRF alternate is taking over, and is processing the last few session tracking requests.

CICS has issued a SIMLOGON for a standby session, but z/OS Communications Server has not yet returned the logon request to CICS's z/OS Communications Server logon exit.

Message DFHXG6480 has been issued twice, and CICS has now assumed that the logons will not appear.

Normal processing continues, though the state of the sessions currently pending backup SIMLOGON is unpredictable at the end of CICS initialization.

The reconnection process attempts to BIND these sessions normally.

System action: Normal takeover processing continues.

User response: The CSTL log and CICS trace should be collected.

Module: DFHZXST

XMEOUT Parameters: *applid, iiii*

Destination: Console

DFHXG6476I *applid* **XRF catch-up abandoned - all XRF alternates signed off**

Explanation: A run of the XRF catch-up transaction has been abandoned because there are no XRF alternates. A failing alternate may have issued some messages.

System action: Normal processing continues.

User response: None.

Module: DFHZXCU

XMEOUT Parameter: *applid*

Destination: Console

DFHXG6477I *applid* **Generic and Specific Ids have same value**

Explanation: A CICS system has issued the command to re-assign the z/OS Communications Server USERVAR representing the XRF complex so that from now on logon requests to the XRF complex are directed to this CICS. However, this system is an XRF primary, and the value of the specific ID is the same as the generic ID for the XRF complex.

System action: Normal processing continues.

User response: None. However special care must be taken when using the application ID. You must make it clear whether reference is being made to the CICS system or to the XRF complex.

Module: DFHZXSTS

XMEOUT Parameter: *applid*

Destination: Console

DFHXG6479 *applid* **Modify USERVAR issued unsuccessfully. Return code** *nn*

Explanation: A CICS system has unsuccessfully issued a command to re-assign the z/OS Communications Server USERVAR representing the XRF complex.

System action: Normal processing continues.

User response: The system operator can issue the command on CICS's behalf. The format is as follows

F procname,USERVAR,ID=generic-id,VALUE=specific-id

Where
- 'procname' is the procedure name for z/OS Communications Server,
- 'generic-ID' is the z/OS Communications Server application ID for the whole complex, and
- 'specific-ID' is the z/OS Communications Server application ID for the new CICS

If it is not possible to change the USERVAR, end-user logons which name the generic-ID value continue to be directed to the old specific-applid, with unpredictable results.

(However, logons quoting the specific-ID of the new system are routed to that system.)

Module: DFHZXSTS

XMEOUT Parameters: *applid, nn*

Destination: Console

DFHXG6480I *applid* **Waiting for backup simlogon processing to drain**

Explanation: An XRF alternate is taking over, and is processing the last few session tracking requests.

CICS has issued SIMLOGON for a standby session, but z/OS Communications Server has not yet returned the logon request to the CICS z/OS Communications Server logon exit.

This message is issued every 5 seconds for 20 seconds while the takeover is being held up.

This indicates either a z/OS Communications Server error or a CICS logic error.

System action: This message is issued twice and then message DFHXG6475 is issued.

User response: If this message is repeated look for other evidence of failure in CICS or VTAM.

Module: DFHZXQO

XMEOUT Parameter: *applid*

Destination: Console

DFHXG6481I *applid* **Autoconnect delayed for** *hh* **hours,** *mm* **minutes,** *ss* **seconds.**

Explanation: CICS has delayed running the reconnection transaction CXRE for an interval of *hh* hours, *mm* minutes, *ss* seconds, to either
- acquire AUTOCONNECT terminals after a CICS startup, or
- reacquire terminal sessions after an XRF takeover.

The delay value, *hh* hours, *mm* minutes, *ss* seconds, is taken from the AUTCONN system initialization parameter. In the case of XRF takeover, a value calculated from the number of standby BINDs held at the time of takeover. This extra interval allows the switching of XRF-capable terminals before non-XRF sessions are reconnected by CXRE.

System action: Normal processing continues.

User response: None.

Module: DFHSIJ1

XMEOUT Parameters: *applid, hh,mm, ss*

Destination: Console

DFHXG6482 *applid* **Unable to issue SETLOGON HOLD (***reqcode***,***reg15***,***reg0***)**

Explanation: This message is issued if z/OS Communications Server SETLOGON START fails during initialization or if in preparation for changing the routing of z/OS Communications Server logons, this system (which is currently doing an XRF takeover) has attempted to request z/OS Communications Server to stop passing any more logon requests to it. The attempt failed, and the details of the failure are given in the message, as follows. The first insert is one of the following.
- 'S'—The SETLOGON START request failed.
- 'H'—The SETLOGON HOLD request failed.

The second and third inserts are the values of registers 15 and 0, respectively, at the time of the failure.

See the *VTAM Programming* manual for your release of z/OS Communications Server for the interpretation of these values.

Valid logons reaching CICS before message DFHSI1517 is issued may be rejected.

System action: Normal processing continues.

User response: Note the message.

Module: DFHZXSTS

XMEOUT Parameters: *applid, reqcode,reg15, reg0*

Destination: Console

DFHXG6483I *applid* **This will be the last pass.**

Explanation: The reconnection transaction CXRE is about to scan the z/OS Communications Server terminals and sessions that were to be (re)connected for the last time. All those found are listed in message DFHXG6486.

System action: Processing continues

User response: If any of the z/OS Communications Server terminals or sessions listed in message DFHXG6486 are crucial, then check whether they are successfully connected as a result of this pass.

Module: DFHZXRE

XMEOUT Parameter: *applid*

Destination: Console

DFHXG6484I *applid* **Autoconnect processing now complete.**

Explanation: The reconnection transaction CXRE has just scanned all the z/OS Communications Server terminals and sessions, and all those that were to be (re)connected are now connected.

System action: Processing continues

User response: None.

Module: DFHZXRE

XMEOUT Parameter: *applid*

Destination: Console

DFHXG6485 *applid* **Unable to schedule Autoconnection / Reconnection process.**

Explanation: CICS initialization attempted to schedule the reconnection process, but was unable to do this as CICS rejected the DFHPC TYPE=LINK call.

See following message DFHXG6487 or DFHXG6488 for the reason.

System action: The reconnection process is not run.

User response: CEMT must be used to restore individual terminals to the desired state.

Module: DFHZOPA

XMEOUT Parameter: *applid*

Destination: Console

DFHXG6486I *applid termid* **may not be acquired after takeover**

Explanation: The reconnection transaction, CXRE, is making its last run, but has discovered that terminal or session *termid* is still not bound in the same status that it was in during the previous failed run of CICS.

System action: Normal processing continues.

User response: Note the terminal identification *termid* in the message, and try to discover why previous reconnection attempts failed. The terminal may not have been physically switched, for example, CEMT may be used to acquire individual terminals after such problems have been cleared.

Module: DFHZXRE0

XMEOUT Parameters: *applid, termid*

Destination: Console

DFHXG6487 *applid* **Unexpected IC/PC error code** *X'code'***. Module** *modname*

Explanation: The reconnection transaction CXRE could not be scheduled or rescheduled., as the DFHIC TYPE=INITIATE or DFHPC TYPE=LINK was rejected with code X'*code*. This is caused by a CICS logic error.

This message follows either
- DFHXG6485 if CICS was unable to schedule CXRE, or
- DFHXG6489 if CICS was unable to reschedule CXRE.

System action: The action taken by CICS depends upon whether the error occurred during scheduling or rescheduling of CXRE.

Refer to the system action for either DFHXG6485 or DFHXG6489 for further details about the action taken by CICS.

Message DFHME0116 should be produced containing the symptom string for this problem.

User response: You need further assistance from IBM to resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHSIJ1, DFHZOPA

XMEOUT Parameters: *applid, X'code',modname*

Destination: Console

DFHXG6488 *applid* **Required transaction CXRE is not defined to CICS. Module** *modname*

Explanation: The reconnection transaction, CXRE, could not be rescheduled. This was because either the transaction code required no longer has an installed transaction definition, or the program required does not have an installed program definition.

This message follows DFHXG6489 or DFHXG6485

System action: The current run of the reconnection transaction is the last one. Message DFHXG6486 is issued for all terminals and sessions found.

User response: If non-XRF terminals are to be reconnected, correct the problem.

Module: DFHSIJ1, DFHZOPA

XMEOUT Parameters: *applid, modname*

Destination: Console

DFHXG6489 *applid* **Unable to schedule Autoconnection / Reconnection transaction CXRE. Module** *modname***.**

Explanation: The reconnection transaction, CXRE, attempted to reschedule itself, but was unable to as

CICS interval control rejected the DFHIC TYPE=INITIATE call.

This message is followed either by DFHXG6487 or DFHXG6488, which provides further information about the cause of the error.

System action: The current run of the reconnection transaction is the last one. Message DFHXG6486 is issued for all terminals and sessions found.

User response: See the following message. CEMT may be used to acquire individual terminals.

Module: DFHSIJ1

XMEOUT Parameters: *applid, modname*

Destination: Console

DFHXG6490I *applid* **Reconnecting VTAM session - pass number** *xxxx*

Explanation: Control has recently been given to CICS after an XRF takeover. The reconnection transaction, CXRE, which attempts to start acquire processing for logical units that were in session in the failed active, has just started for the pass number *xxxx*.

System action: Normal processing continues.

User response: Note any error messages arising as CICS attempts to reconnect terminals and sessions.

Module: DFHZXRE0

XMEOUT Parameters: *applid, xxxx*

Destination: Console

DFHXG6491 *applid* **Logic error during session tracking. REASON** *rcode terminal/session event*

Explanation: XRF session tracking encountered an unexpected circumstance probably due to a design error. The reason code (*rcode*) is one of the following.

1 POST called but no pending action for terminal or session.

Inserts
- name of terminal or session.

2 DFHZXST called with bad request value.

3 XRF-capable session lacks a correlation id.

Inserts
- name of terminal or session,
- code for event being tracked.

The following are valid for DFHSUSX only.
- X'01—Send sign on data
- X'02—Send sign on data (catchup)
- X'03—Receive sign on data

The following are valid for DFHZXST only.
- X'F1—BIND
- X'F2—Free LOGON data
- X'F3—UNBIND

4 Could not get key to build tracking message.

Inserts
- name of terminal or session
- code for event being tracked (see 3 above)

5 Could not get send tracking message.

Inserts
- name of terminal or session
- code for event being tracked (see 3 above)

6 Could not find session named in tracking message.

Inserts
- name of terminal or session
- code for event being tracked (see 3 above)

7 Illegal entry named in tracking message.

Inserts
- name of terminal or session
- code for event being tracked (see 3 above)

8 Bad request code in tracking message.

Inserts
- name of terminal or session
- bad request code (see 3 above for valid DFHZXST codes)

9 Correlator in tracking message is longer than 8.

Insert
- name of terminal or session

10 Unable to schedule standby BIND.

Insert
- name of terminal or session.

System action: Normal processing continues.

User response: Note the message. Resources and states may be incorrect should the backup take over. If many of these messages are issued, then it is likely that there is a more general problem.

Module: DFHSUSX, DFHZXST

XMEOUT Parameters: *applid, rcode,terminal/session, event*

Destination: Console

DFHXG6492I *applid* **XRF catch-up logic error** *reason length*

Explanation: The XRF catch-up program encountered an unexpected circumstance probably due to a CICS design error. The reason, indicated by the first insert, is one of the following

1 Catalog record internal length value not correct.

2 Catalog record format error. There is no room for a key.

3 Catalog record format error. The key is longer than 16.
4 Catalog record too long for buffer (variable CUBUFFER). The second insert gives the required length.
5 Unexpected ABEND or response from EXEC CICS command.
6 Catalog record format error. There is no resource manager prefix.

System action: In cases 1, 2, 3, and 6 above, normal processing continues.

In case 4, DFHZXCU abends with abend code AZXB. In case 5, DFHZXCU abends with abend code AZXA.

User response: Note the message. Resources and states may be incorrect should the alternate take over. If many of these messages are issued, it is likely that there is a more general problem.

Module: DFHZXCU

XMEOUT Parameters: *applid, reason,length*

Destination: Console

DFHXG6493 *date time applid* **XRF tracking record could not be sent** *xxxx xxxx xxxx xxxx xxxx* **(Module:** *modname***)**

Explanation: The XRF catch-up program obtained a bad return code from the XRF message manager and was unable to send a record that the alternate would require to obtain a correct copy of the active. The inserts (internal diagnostic information) are

1. WMSRETC

   DFHWMS return code. (For values and meanings of the return codes, refer to the XRF CICS manager request interface block (WMSPS) listing in the *CICS Data Areas*.)
2. WMSREASN

   DFHWMS reason code. (For values and meanings of the reason codes, please refer to the XRF CICS manager request interface block (WMSPS) listing in the *CICS Data Areas*.)
3. XTR-KEY-VALUE is the key of the tracking record.
4. XTR-ID is the record ID, where
   - zero = tracking, and
   - non-zero = catch-up.
5. XTR-TYPE is the record type (see DFHZXTR), where
   - X = tracking control,
   - C = TCT contents,
   - S = ZCP session tracking, and
   - U = sign on data

The message is issued from module *modname*.

System action: Normal processing continues.

User response: Note the message. Resources and states may be incorrect should the alternate take over. If many of these messages are issued, then it is likely that there is a more general problem.

Module: DFHZXCU, DFHZXST, DFHTCRP, DFHTBSSP, DFHSUSX

XMEOUT Parameters: *date, time,applid, xxxx, xxxx, xxxx,xxxx, xxxx, modname*

Destination: Console and Transient Data Queue CSMT

DFHXG6494I *date time applid* **XRF session state catch-up ended**

Explanation: The XRF catch-up program has just finished an attempt to send messages to allow a newly signed-on alternate CICS to bring itself up to date with respect to the bound or unbound session states.

System action: Normal processing continues.

User response: None.

Module: DFHZXCU

XMEOUT Parameters: *date, time,applid*

Destination: CSMT

DFHXG6495I *date time applid* **XRF session state catch-up started**

Explanation: The XRF catch-up program is about to start an attempt to send messages to allow a newly signed-on alternate CICS to bring itself up to date with respect to the bound or unbound session states.

System action: Normal processing continues.

User response: None.

Module: DFHZXCU

XMEOUT Parameters: *date, time,applid*

Destination: CSMT

DFHXG6496I *date time applid* **XRF TCT contents catch-up ended**

Explanation: The XRF catch-up program has just finished an attempt to send messages to allow a newly signed-on alternate CICS to bring itself up to date with respect to the contents of the TCT.

System action: Normal processing continues.

User response: None.

Module: DFHZXCU

XMEOUT Parameters: *date, time,applid*

Destination: CSMT

DFHXG6497I *date time applid* **XRF TCT contents catch-up started**

Explanation: The XRF catch-up program is about to start an attempt to send messages to allow a newly signed-on alternate CICS to bring itself up to date with respect to the contents of the TCT.

System action: Normal processing continues.

User response: None.

Module: DFHZXCU

XMEOUT Parameters: *date, time,applid*

Destination: CSMT

DFHXG6498I *date time applid* **XRF catch-up ended**

Explanation: The XRF catch-up program has just finished an attempt to send messages to allow a newly signed-on alternate CICS to bring itself up to date.

System action: Normal processing continues.

User response: None.

Module: DFHZXCU

XMEOUT Parameters: *date, time,applid*

Destination: CSMT

DFHXG6499I *date time applid* **XRF catch-up started**

Explanation: The XRF catch-up program is about to start an attempt to send messages to allow a newly signed-on alternate CICS to bring itself up to date.

System action: Normal processing continues.

User response: None.

Module: DFHZXCU

XMEOUT Parameters: *date, time,applid*

Destination: CSMT

DFHXG6500I *applid* **Signing on to the CAVM as alternate with generic APPLID** *genericid*

Explanation: This is an informational message issued from the CICS TCB. It indicates that the system is about to sign on to the CICS availability manager (CAVM) as alternate. The message insert provides the generic applid.

System action: CICS initialization is delayed until the sign on request has been processed. In general the delay is insignificant. In those cases where the delay is significant messages are produced by the CAVM to note the reasons.

User response: None.

Module: DFHXRA

XMEOUT Parameters: *applid, genericid*

Destination: Console

DFHXG6501I *applid* **Sign on to the CAVM as alternate accepted**

Explanation: This is an informational message issued from the CICS TCB. It indicates that the sign on request has been accepted by the CAVM. (Refer to message DFHXG6500.)

System action: CICS initialization is resumed.

User response: None.

Module: DFHXRA

XMEOUT Parameter: *applid*

Destination: Console

DFHXG6502I *applid* **Sign on to the CAVM as alternate rejected**

Explanation: This is an informational message issued from the CICS TCB. It indicates that the sign on request has been rejected by the CAVM. (Refer to message DFHXG6500.) Messages are produced by the CAVM to note the reasons for rejecting the request.

System action: CICS initialization is terminated.

User response: None.

Module: DFHXRA

XMEOUT Parameter: *applid*

Destination: Console

DFHXG6503I *applid* **Sign on of** *specificid* **to the CAVM as active detected.**

Explanation: This is an informational message issued from the CICS TCB. It indicates that CICS has been notified that the named active CICS has signed on to the CAVM.

System action: CICS initialization continues.

User response: None.

Module: DFHXRSP

XMEOUT Parameters: *applid, specificid*

Destination: Console

DFHXG6507I *applid* **Sign off normal from the CAVM detected.**

Explanation: This is an informational message issued from the CICS TCB. It indicates that CICS has been notified that active CICS has signed off from the CAVM.

System action: CICS processing is terminated.

User response: None.

Module: DFHXRSP

XMEOUT Parameter: *applid*

Destination: Console

DFHXG6511I *applid* **Sign off abnormal from the CAVM detected.**

Explanation: This is an informational message issued from the CICS TCB. It indicates that CICS has been notified that active CICS has signed off from the CAVM.

System action: The action taken depends on the current value of the takeover option. This is specified in the system initialization table. The CEBT SET TAKEOVER command is used to change the value. A takeover request is passed to the CAVM if the current value of the takeover option is either AUTOMATIC or MANUAL.

User response: The user response, if any, is installation dependent.

Module: DFHXRSP

XMEOUT Parameter: *applid*

Destination: Console

DFHXG6512I *applid* **Takeover request passed to the CAVM**

Explanation: This is an informational message issued from the CICS TCB. It indicates that the system is about to request the CAVM to initiate takeover.

System action: CICS initialization continues.

User response: None.

Module: DFHXRA

XMEOUT Parameter: *applid*

Destination: Console

DFHXG6513I *applid* **Takeover request accepted by the CAVM**

Explanation: This is an informational message issued from the CICS TCB. It indicates that the takeover request (refer to message DFHXG6512) has been accepted by the CAVM.

System action: CICS initialization continues.

User response: None.

Module: DFHXRA

XMEOUT Parameter: *applid*

Destination: Console

DFHXG6514I *applid* **Takeover request rejected by the CAVM**

Explanation: This is an informational message issued from the CICS TCB. It indicates that the takeover request (refer to message DFHXG6512) has been rejected by the CAVM. Messages are produced by the CAVM to note the reasons for rejecting the request.

System action: CICS initialization continues.

User response: None.

Module: DFHXRA

XMEOUT Parameter: *applid*

Destination: Console

DFHXG6516I *applid* **Apparent failure of active CICS detected.**

Explanation: This is an informational message issued from the CICS TCB. It indicates that CICS has been notified that active CICS appears to have failed.

System action: The action taken depends on the current value of the takeover option. This is specified in the system initialization table. The CEBT SET TAKEOVER command is used to change the value. A takeover request will be passed to the CAVM if the current value of the takeover option is AUTOMATIC. Message DFHXG6518 will be sent to the console if the current value is MANUAL.

User response: Determine the reason for the apparent failure of active CICS.

Module: DFHXRSP

XMEOUT Parameter: *applid*

Destination: Console

DFHXG6517I *applid* **Recovery of active CICS detected.**

Explanation: This is an informational message issued from the CICS TCB. It indicates that CICS has been notified that active CICS has recovered from the apparent failure reported by message DFHXG6516.

System action: CICS initialization continues.

User response: None.

Module: DFHXRSP

XMEOUT Parameter: *applid*

Destination: Console

DFHXG6518A *applid* **APPARENT FAILURE OF ACTIVE CICS DETECTED. REPLY 'TAKEOVER' OR 'IGNORE'**

Explanation: This is an action message issued from the CICS TCB. It is issued when the current value of

the active CICS appears to have failed.

System action: If the reply is 'TAKEOVER', CICS requests the CAVM to initiate takeover.

If the reply is 'IGNORE', CICS assumes one of the following:

- The active CICS system recovers from the apparent failure.
- The active CICS system is restarted.
- The CEBT PERFORM TAKEOVER command is used to initiate takeover.

Subsequent events may mean that the user need not reply to message DFHXG6518A. Examples of this are :

- If CICS is notified that the active CICS system has recovered from the apparent failure reported by message DFHXG6516, messages DFHXG6517 and DFHXG6519 are sent to the console.
- If CICS is notified that the active CICS system has signed off abnormally from the CAVM, messages DFHXG6511 and DFHXG6519 are sent to the console.
- If takeover is initiated (from the alternate CICS system) at the same time as the active CICS recovers from the apparent failure reported by message DFHXG6516, messages DFHXG6513 and DFHXG6539 are sent to the console.

User response: Determine the reason for the apparent failure of the active CICS. If possible, resolve the failure and make the appropriate reply.

Module: DFHXRSP

Destination: Console

DFHXG6519I *applid* **The reply to message DFHXG6518 is assumed to be IGNORE.**

Explanation: This is an informational message issued from the CICS TCB. It indicates that CICS no longer requires the user to respond to message DFHXG6518.

System action: CICS initialization continues.

User response: None.

Module: DFHXRSP

XMEOUT Parameter: *applid*

Destination: Console

DFHXG6520I *applid* **CICS shutdown initiated by CAVM event.**

Explanation: This is an informational message issued from the CICS TCB. CICS initiated shutdown occurs in the following situations

1. CICS is notified that active CICS has signed off normally from the CAVM. Message DFHXG6507 is sent to the console.
2. CICS is notified that active CICS has been restarted "in place". Message DFHXG6511 is sent to the console.
3. CICS assumes that the active CICS has signed off normally from the CAVM. Message DFHXG6522 is sent to the console.

System action: CICS terminates normally, but note that takeover does not occur if (active) CICS fails.

User response: Consider restarting (alternate) CICS.

Module: DFHXRSP

XMEOUT Parameter: *applid*

Destination: Console

DFHXG6522I *applid* **Sign off normal from the CAVM assumed.**

Explanation: This is an informational message issued from the CICS TCB. It indicates that CICS has assumed that the active CICS has signed off from the CAVM. This is likely to occur when the alternate CICS is running on CEC 1 and

1. Active CICS is started on CEC 2.
2. CEC 2 is reinitialized.
3. Active CICS is restarted on CEC 2.

System action: CICS processing is terminated.

User response: None.

Module: DFHXRSP

XMEOUT Parameter: *applid*

Destination: Console

DFHXG6523I *applid* **CAVM failure detected. CICS cannot continue as Alternate.**

Explanation: This is an informational message issued from the CICS TCB. It indicates that CICS has been notified that the CAVM has failed. Messages are produced by the CAVM to note the reasons for failure.

System action: CICS terminates abnormally. The abend code is 207.

User response: Correct the error.

Module: DFHXRSP

XMEOUT Parameter: *applid*

Destination: Console

DFHXG6524I *applid* **CAVM error detected. CICS cannot continue as Alternate.**

Explanation: This is an informational message issued from the CICS TCB. It indicates that CICS has been notified that the CAVM has detected an error that prevents CICS from continuing as an alternate.

This would be the case, for example, where the

alternate CICS has been unable to keep up with the messages generated by the active CICS.

Messages are produced by the CAVM to note the reasons for failure.

System action: CICS terminates abnormally. The abend code is 213.

User response: Correct the error.

Module: DFHXRSP

XMEOUT Parameter: *applid*

Destination: Console

DFHXG6539I *applid* **The reply to message DFHXG6518 is assumed to be TAKEOVER.**

Explanation: This is an informational message issued from the CICS TCB. It indicates that CICS no longer requires the user to respond to message DFHXG6518.

System action: CICS initialization continues.

User response: None.

Module: DFHXRSP

XMEOUT Parameter: *applid*

Destination: Console

DFHXG6680I *applid* **TIME-OF-DAY CLOCK DIFFERENCE IS AT LEAST** *sss* **SECONDS.**

Explanation: This is an informational message issued from the CICS TCB. Active CICS and alternate CICS systems are executing on different CECs, and the time-of-day clock on the alternate CEC is earlier than that on the active CEC. If takeover occurs then some CICS processing will have to be delayed until the time-of-day clock on the alternate CEC is later than that on the active CEC. The CAVM has estimated the lower bound to the clock difference and this is at least 15 seconds; the message contains the estimated difference. Note that the lower bound may change as more surveillance signals are processed by the CAVM. This may be the case within the first 3 to 5 surveillance signals of the active CICS starting. An elapsed time of some 10 seconds. This message is repeated as necessary.

System action: CICS processing continues.

User response: Ensure that the time-of day clocks are synchronized as closely as possible. Note that takeover times may be increased if the difference in values is significant.

Module: DFHXRSP

Destination: Console

DFHXG6681I *applid* **TIME-OF-DAY CLOCK DIFFERENCE IS AT MOST** *sss* **SECONDS.**

Explanation: This is an informational message issued from the CICS TCB. Active CICS and alternate CICS systems are executing on different CECS, and the time-of-day clock on the alternate CEC is earlier than that on the active CEC. If takeover occurs then some CICS processing will have to be delayed until the time-of-day clock on the alternate CEC is later than that on the active CEC. The CAVM has estimated the upper bound to the clock difference and this is at least 15 seconds; the message contains the estimated difference. Note that the upper bound may change as more surveillance signals are processed by the CAVM; message DFHXG6681 will be repeated as necessary.

System action: CICS processing continues.

User response: Ensure that the time-of day clocks are synchronized as closely as possible. Note that takeover times may be increased if the difference in values is significant.

Module: DFHXRSP

Destination: Console

DFHXG6682I *applid* **XRF clock synchronization started**

Explanation: This is an informational message issued from the CICS TCB. The time-of-day clock on the alternate CEC is earlier than that on the active CEC; time dependent processing must be suspended. Such processing is delayed until the time-of-day clock value on the alternate is later than that on the active CEC when the active job terminated.

System action: Some CICS initialization continues.

User response: Ensure that the time-of-day clocks are synchronized as closely as is possible. Note that takeover times may be increased if the difference in values is significant.

Module: DFHXRA

XMEOUT Parameter: *applid*

Destination: Console

DFHXG6683I *applid* **XRF clock synchronization ended**

Explanation: This is an informational message issued from the CICS TCB. The time-of-day clock on the alternate CEC is now later than that on the active CEC; time dependent processing can be resumed.

System action: CICS initialization continues.

User response: None.

Module: DFHXRA

XMEOUT Parameter: *applid*

Destination: Console

DFHXMnnnn messages

DFHXM0001 *applid* **An abend (code** *aaa/bbbb***) has occurred at offset** *X'offset'* **in module** *modname***.**

Explanation: An abnormal end (abend) or program check has occurred in module *modname*. This implies that there may be an error in the CICS code. Alternatively, unexpected data has been input, or storage has been overwritten.

The code *aaa/bbbb* is a 3-digit hexadecimal MVS code (if applicable), followed by a 4-digit alphanumeric CICS code. The MVS code is a system completion code (for example, 0C1 or D37). If an MVS code is not applicable, this field is filled with three hyphens. The CICS code is an abend code or a number referring to a CICS message (for example, AKEA is a CICS abend code; 1310 refers to message DFHTS1310).

System action: An exception entry is made in the trace table. A system dump is taken, unless you have specifically suppressed dumps in the dump table.

CICS continues unless you have specified in the dump table that CICS should terminate. In some circumstances CICS is terminated directly if the error occurred in a crucial XM domain module.

Message DFHME0116 should be produced containing the symptom string for this problem.

User response: If CICS is still running, it is necessary to decide whether to terminate CICS.

Look up the MVS code, if there is one, in the relevant MVS codes manual which is detailed in the book list in the front of this manual.

Next, look up the CICS alphanumeric code in this manual. for further guidance.

If module *modname* is not crucial to the running of your CICS system, you may decide to continue to run and bring CICS down at a convenient time to resolve the problem.

If you cannot run without the full use of module *modname* you should bring CICS down in a controlled shutdown.

You need further assistance from IBM to resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHXMAT, DFHXMBD, DFHXMCL, DFHXMDD, DFHXMDM, DFHXMER, DFHXMFD, DFHXMIQ, DFHXMLD, DFHXMQD, DFHXMQC, DFHXMRP, DFHXMSR, DFHXMTA, DFHXMXD, DFHXMXE

XMEOUT Parameters: *applid, aaa/bbbb, X'offset', modname*

Destination: Console

DFHXM0002 *applid* **A severe error (code** *X'code'***) has occurred in module** *modname***.**

Explanation: An error has been detected in module *modname*. The code X'*code* is the exception trace point id which uniquely identifies what the error is and where the error was detected.

System action: An exception entry (code X'*code* in the message) is made in the trace table. A system dump is taken, unless you have specifically suppressed dumps in the dump table.

CICS continues unless you have specified in the dump table that CICS should terminate. In some circumstances CICS is terminated directly if the error is critical.

Message DFHME0116 should be produced containing the symptom string for this problem.

User response: This indicates a possible error in CICS code. The severity of its impact depends on the importance of the function being executed at the time of the error.

CICS may not have been terminated. If the message occurs once and module *modname* is not crucial to the running of your CICS system, you may decide to continue to run and bring CICS down at a convenient time to resolve the problem.

If the message recurs or if you cannot run without the full use of module *modname*, you should bring CICS down in a controlled shutdown.

You need further assistance from IBM to resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHXMAT, DFHXMBD, DFHXMCL, DFHXMDD, DFHXMDM, DFHXMER, DFHXMFD, DFHXMIQ, DFHXMLD, DFHXMQD, DFHXMQC, DFHXMRP, DFHXMSR, DFHXMTA, DFHXMXD, DFHXMXE

XMEOUT Parameters: *applid, X'code',modname*

Destination: Console

DFHXM0004 *applid* **A possible loop has been detected at offset** *X'offset'* **in module** *modname***.**

Explanation: A CICS function is taking more time to process than CICS expects. A possible loop has been detected in module *modname* at offset X'*offset*. This is the offset of the instruction which happened to be executing at the time when the error was detected.

System action: An exception entry is made in the trace table.

A system dump is taken unless you have specifically suppressed the dump (by a user exit program at the XDUREQ exit, in the dump table or by global system dump suppression). CICS processing continues unless you have specified in the dump table that CICS should terminate.

Message DFHME0116 should be produced containing the symptom string for this problem.

User response: If CICS has not been terminated, it is necessary to decide whether the problem is serious enough to bring CICS down.

Since some CICS functions can use a lot of CPU time, this message may have been caused by a long-running function. So there may not be an error. Usually, CICS purges a CICS function which exceeds the runaway task time interval which you have specified in the SIT (this is the ICVR which is measured in milliseconds). This means that execution of module *modname* is terminated and CICS continues.

If you have specifies ICVR=0 in the SIT and you consider that module *modname* has gone into a loop, you have to terminate CICS in order to terminate the runaway function.

If CICS has terminated module *modname*, and you consider that it was not a runaway, you should increase the ICVR time interval in the SIT. You have to bring CICS down at a suitable time to do this permanently. But you can change the ICVR time interval temporarily online using the CEMT transaction.

If raising the ICVR time does not solve the problem, you may need further assistance from IBM to resolve the problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHXMAT, DFHXMBD, DFHXMCL, DFHXMDD, DFHXMDM, DFHXMER, DFHXMFD, DFHXMIQ, DFHXMLD, DFHXMQD, DFHXMQC, DFHXMRP, DFHXMSR, DFHXMTA, DFHXMXD, DFHXMXE

XMEOUT Parameters: *applid, X'offset', modname*

Destination: Console

DFHXM0101 *date time applid terminal userid tranid* **TRANSACTION definition entry for** *transname* **has been added.**

Explanation: This is an audit log message indicating that transaction definition entry *transname* has been added to the system using the INSTALL command.

- *terminal* is the netname or termid of the terminal associated with the transaction issuing the message. If there is no terminal associated with the transaction, the terminal name is suppressed.
- *userid* is the user identifier of the user associated with the transaction issuing the message.
- *tranid* is the transaction issuing the message.

System action: The system continues normally.

User response: None.

Module: DFHXMXD

XMEOUT Parameters: *date, time,applid, terminal, userid, tranid, transname*

Destination: CSKL

DFHXM0103 *date time applid terminal userid tranid* **TRANSACTION definition entry for** *transname* **has been deleted.**

Explanation: This is an audit log message indicating that transaction definition entry *transname* has been deleted from the system using the DISCARD command.

- *terminal* is the netname or termid of the terminal associated with the transaction issuing the message. If there is no terminal associated with the transaction, the terminal name is suppressed.
- *userid* is the user identifier of the user associated with the transaction issuing the message.
- *tranid* is the transaction issuing the message.

System action: The system continues normally.

User response: None.

Module: DFHXMDD

XMEOUT Parameters: *date, time,applid, terminal, userid, tranid, transname*

Destination: CSKL

DFHXM0105 *date time applid terminal userid tranid* **TRANSACTION definition entry for** *transname* **has been replaced.**

Explanation: This is an audit log message indicating that transaction definition entry *transname* has been replaced in the system using the INSTALL command.

- *terminal* is the netname or termid of the terminal associated with the transaction issuing the message. If there is no terminal associated with the transaction, the terminal name is suppressed.
- *userid* is the user identifier of the user associated with the transaction issuing the message.
- *tranid* is the transaction issuing the message.

System action: The system continues normally.

User response: None.

Module: DFHXMXD

XMEOUT Parameters: *date, time,applid, terminal, userid, tranid, transname*

Destination: CSKL

DFHXM0110 *date time applid* **Transaction definition** *transid1* **has been installed with the same REMOTENAME and REMOTESYSTEM as existing definition** *transid2***.**

Explanation: Transaction definition *transid1* has been installed with the same REMOTENAME and REMOTESYSTEM as transaction definition *transid2*.

If this CICS system routes a transaction to the CICS system named as the REMOTESYSTEM of both the definitions and that transaction issues an EXEC CICS START request for the transaction-id named as the REMOTENAME of *transid1* and *transid2*, CICS can either attach *transid1* or *transid2* on the local system to satisfy the START request.

System action: The install of transaction definition *transid1* continues normally.

If an EXEC CICS START request is issued on a remote system as described in the message explanation, CICS attaches *transid1* and not *transid2* on the local system.

CICS does not always resolve this ambiguity in the same way after a warm or emergency restart, however.

User response: This situation usually causes no problems because the correct transaction is attached in the remote system. However, the correct transaction in the local system may not have been attached and this can manifest itself in the following ways

- Inconsistent statistics being accumulated in the local system.
- The incorrect TRPROF being used when routing the START request back over to the remote system.
- CEMT INQUIRE TASK showing the wrong set of transactions running in the local system.

Although these are not necessarily problems, you may want to check the definitions of the remote transactions in this system in case they have been defined incorrectly.

If remote START requests are issued as described, and it does matter which transaction CICS attaches in the local system, you should modify and reinstall the transaction definition that should not be attached. This removes any ambiguity.

Module: DFHXMXD

XMEOUT Parameters: *date, time,applid, transid1, transid2*

Destination: CSMT

DFHXM0111 *date time applid* **Catalog failure while processing** *{INSTALL | SET | DISCARD}* **request for transaction definition** *transid***.**

Explanation: An error has occurred while altering the catalog during the processing of an install, set, or discard request for transaction definition *transid*.

System action: The request continues as normal.

Depending upon the error that has occurred with the catalog, there may be severe problems if a warm or emergency restart of CICS is attempted. The catalog domain will have issued a message outlining the problem in this case.

Alternatively the problem may only be local to the catalog record containing the image of transaction definition *transid* and the following problems may occur only on a warm or emergency restart.

INSTALL
If it is a reinstall, the old version of the transaction definition is recovered. If it is an install, the transaction definition is not recovered.

SET The change requested by the SET is not recovered. Instead the transaction definition is recovered to the state prior to the SET request being issued.

DISCARD
The transaction definition is recovered on the restart even though it is currently discarded.

User response: No immediate action is required. Consider performing a cold or initial start the next time CICS is restarted to remedy the problem. If a cold or initial start is not appropriate and the problem is only localized to transaction definition *transid*, remedy the effects outlined for each case previously.

For example,

INSTALL
Reinstall the tranclass definition after the restart.

SET Reissue the SET command after CICS has been restarted.

DISCARD
Reissue the DISCARD command after CICS has been restarted.

If the catalog problem persists after the restart, you need further assistance from IBM. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHXMDD, DFHXMXD

XMEOUT Parameters: *date, time,applid, {1=INSTALL, 2=SET,3=DISCARD}, transid*

Destination: Console and Transient Data Queue CSMT

DFHXM0112 *date time applid* **The install of transaction definition** *transid1* **has removed ALIAS** *alias* **of** *transid2***.**

Explanation: Transaction definition *transid1* has been installed with an ALIAS of *alias*. However, ALIAS *alias*

currently invokes transaction definition *transid2*.

System action: The install of *transid1* continues as normal.

The ALIAS *alias* now invokes transaction definition *transid1* and not *transid2* as previously.

User response: If removal of transaction definition *transid2*'s ALIAS was expected, no action is required. However, transaction definition *transid2* should be modified on the CSD so that it no longer specifies the ALIAS.

If the ALIAS has been removed in error, reinstall transaction definition *transid2* to reinstate its ALIAS. Transaction definition *transid1* should be modified on the CSD so that it no longer specifies the ALIAS.

Module: DFHXMXD

XMEOUT Parameters: *date, time,applid, transid1, alias, transid2*

Destination: CSMT

DFHXM0113 *date time applid* **The install of transaction definition** *transid1* **has removed TASKREQ** *taskreq* **of** *transid2***.**

Explanation: Transaction definition *transid1* has been installed with a TASKREQ of *taskreq*. However, TASKREQ *taskreq* currently invokes transaction definition *transid2*.

System action: The install of *transid1* continues as normal.

The TASKREQ *taskreq* now invokes transaction definition *transid1* and not *transid2* as previously.

User response: If removal of transaction definition *transid2*'s TASKREQ was expected, no action is required. However, transaction definition *transid2* should be modified on the CSD so that it no longer specifies the TASKREQ.

If the TASKREQ has been removed in error, reinstall transaction definition *transid2* to reinstate its TASKREQ. Transaction definition *transid1* should be modified on the CSD so that it no longer specifies the TASKREQ.

Module: DFHXMXD

XMEOUT Parameters: *date, time,applid, transid1, taskreq, transid2*

Destination: CSMT

DFHXM0114 *date time applid* **The install of transaction definition** *transid1* **has removed XTRANID** *X'xtranid'* **of** *transid2***.**

Explanation: Transaction definition *transid1* has been installed with a XTRANID of *xtranid*. However, XTRANID *xtranid* currently invokes transaction definition *transid2*.

System action: The install of *transid1* continues as normal.

The XTRANID *xtranid* now invokes transaction definition *transid1* and not *transid2* as previously.

User response: If removal of transaction definition *transid2*'s XTRANID was expected, no action is required. However, transaction definition *transid2* should be modified on the CSD so that it no longer specifies the XTRANID.

If the XTRANID has been removed in error, reinstall transaction definition *transid2* to reinstate its XTRANID. Transaction definition *transid1* should be modified on the CSD so that it no longer specifies the XTRANID.

Module: DFHXMXD

XMEOUT Parameters: *date, time,applid, transid1, X'xtranid',transid2*

Destination: CSMT

DFHXM0115 *date time applid* **The install of transaction definition** *transid1* **has removed TPNAME** *tpname* **of** *transid2***.**

Explanation: Transaction definition *transid1* has been installed with a TPNAME of *tpname*. However, TPNAME *tpname* currently invokes transaction definition *transid2*.

System action: The install of *transid1* continues as normal.

The TPNAME *tpname* now invokes transaction definition *transid1* and not *transid2* as previously.

User response: If removal of transaction definition *transid2*'s TPNAME was expected, no action is required. However, transaction definition *transid2* should be modified on the CSD so that it no longer specifies the TPNAME.

If the TPNAME has been removed in error, reinstall transaction definition *transid2* to reinstate its TPNAME. Transaction definition *transid1* should be modified on the CSD so that it no longer specifies the TPNAME.

Module: DFHXMXD

XMEOUT Parameters: *date, time,applid, transid1, tpname, transid2*

Destination: CSMT

DFHXM0116 *date time applid* **PROGRAM parameter missing from transaction definition** *transid***. PROGRAM is required because REMOTESYSTEM is the same as the local system.**

Explanation: Transaction definition *transid* has been installed without a PROGRAM parameter. Since it has been defined with a REMOTESYSTEM equal to the

local system, a program is required if the transaction is executed on this system.

System action: The install of *transid* continues as normal. Any attempt to run the transaction *transid* will fail because there is no program to link to.

User response: This message is issued for information only. There is no problem if transaction *transid* is not executed on this system. If it is to be executed, the definition of *transid* needs to be modified and then reinstalled.

If the transaction is not executed, you may wish to investigate why the transaction definition has been installed. It could be that the transaction is defined in an RDO group that is shared between a number of different CICS systems. For example *transid* may be TTT1 in the following pair of definitions used to implement transaction routing to this local system CICB.

```
Transaction  Remotesystem   Remotename   Program
TTT1         CICB           TTT2         -
TTT2         -              -            PROGA
```

In this example, a single definition would suffice if the transaction was made to have the same name on this system.

```
Transaction  Remotesystem   Remotename   Program
TTT1         CICB           TTT1         PROGA
```

Module: DFHXMXD

XMEOUT Parameters: *date, time,applid, transid*

Destination: CSMT

DFHXM0201 *date time applid terminal userid tranid* **TRANCLASS definition entry for** *tranclassname* **has been added.**

Explanation: This is an audit log message indicating that tranclass definition entry *tranclassname* has been added to the system using the INSTALL command.

- *terminal* is the netname or termid of the terminal associated with the transaction issuing the message. If there is no terminal associated with the transaction, the terminal name is suppressed.
- *userid* is the user identifier of the user associated with the transaction issuing the message.
- *tranid* is the transaction issuing the message.

System action: The system continues normally.

User response: None.

Module: DFHXMCL

XMEOUT Parameters: *date, time,applid, terminal, userid, tranid, tranclassname*

Destination: CSKL

DFHXM0203 *date time applid terminal userid tranid* **TRANCLASS definition entry for** *tranclassname* **has been deleted.**

Explanation: This is an audit log message indicating that tranclass definition entry *tranclasssname* has been deleted from the system using the DISCARD command.

- *terminal* is the netname or termid of the terminal associated with the transaction issuing the message. If there is no terminal associated with the transaction, the terminal name is suppressed.
- *userid* is the user identifier of the user associated with the transaction issuing the message.
- *tranid* is the transaction issuing the message.

System action: The system continues normally.

User response: None.

Module: DFHXMCL

XMEOUT Parameters: *date, time,applid, terminal, userid, tranid, tranclassname*

Destination: CSKL

DFHXM0205 *date time applid terminal userid tranid* **TRANCLASS definition entry for** *tranclassname* **has been replaced.**

Explanation: This is an audit log message indicating that tranclass definition entry *transname* has been replaced in the system using the INSTALL command.

- *terminal* is the netname or termid of the terminal associated with the transaction issuing the message. If there is no terminal associated with the transaction, the terminal name is suppressed.
- *userid* is the user identifier of the user associated with the transaction issuing the message.
- *tranid* is the transaction issuing the message.

System action: The system continues normally.

User response: None.

Module: DFHXMCL

XMEOUT Parameters: *date, time,applid, terminal, userid, tranid, tranclassname*

Destination: CSKL

DFHXM0211 *date time applid* **Catalog failure while processing** *{INSTALL | SET | DISCARD}* **request for tranclass definition** *tranclassname***.**

Explanation: An error has occurred while altering the catalog during the processing of an install, set, or discard request for tranclass definition *tranclassname*.

System action: The request continues normally.

Depending upon the error that has occurred with the catalog, there may be severe problems if a warm or

emergency restart of CICS is attempted. The catalog domain will have issued a message outlining the problem in this case.

Alternatively the problem may only be local to the catalog record containing the image of tranclass definition *tranclassname* and the following problems may occur only on a warm or emergency restart.

INSTALL
If it is a reinstall, the old version of the tranclass definition is recovered. If it is an install, the tranclass definition was not recovered.

SET The change requested by the SET is not recovered. Instead the tranclass definition is recovered to the state it was in before the SET request was issued.

DISCARD
The tranclass definition is recovered on the restart even though it is currently discarded.

User response: No immediate action is required. To fully resolve the problem, consider performing a cold or initial start the next time CICS is restarted. If a cold or initial start is not appropriate and the problem is only localized, to tranclass definition *tranclassname*, you can resolve each of the symptoms separately.

For example

INSTALL
Reinstall the tranclass definition after CICS has been restarted.

SET Reissue the SET command after CICS has been restarted.

DISCARD
Reissue the DISCARD command after CICS has been restarted.

If the catalog problem persists after the restart, you may need further assistance from IBM to resolve the problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHXMCL

XMEOUT Parameters: *date, time,applid, {1=INSTALL, 2=SET,3=DISCARD}, tranclassname*

Destination: Console and Transient Data Queue CSMT

DFHXM0212 *applid* **Transaction** *transid* **has been attached with unknown tranclass** *tranclassname***.**

Explanation: Transaction *transid* has just been attached. It is defined as belonging to tranclass *tranclassname* but *tranclassname* does not exist.

This message is only issued the first time transaction *transid* is attached with the unknown tranclass.

System action: The attach of transaction *transid* proceeds as normal but without being subject to any tranclass scheduling constraints.

User response: If transaction *transid* should belong to tranclass *tranclassname*, install that tranclass. If not, modify the transaction definition for *transid* as appropriate, and reinstall.

The CEDA CHECK command can be used to ensure that each of the tranclasses referenced by transaction definitions are defined within the same startup GRPLIST.

Module: DFHXMQC

XMEOUT Parameters: *applid, transid,tranclassname*

Destination: Console

DFHXM0213 *applid* **Insufficient storage for system attach of transaction** *transid***.**

Explanation: There is insufficient storage for a new task to be created for the attach of transaction *transid*.

Since the majority of the storage required for the new task is obtained from DSA storage, CICS is probably short on storage in one of the DSAs.

System action: The attach request is queued. It is retried later when more storage should have become available. If the retried attach fails, it is queued and retried repeatedly until it succeeds.

User response: If CICS is short on storage, message DFHSM0133 is also issued. Refer to that message for advice on how to resolve the condition.

If message DFHSM0133 has not been issued, the problem has been caused by insufficient MVS storage. In this case consider lowering the EDSALIM of the system to increase the amount of available MVS storage.

Module: DFHXMAT

XMEOUT Parameters: *applid, transid*

Destination: Console

DFHXM0301 *date time applid* **An attempt to link to the user-replaceable transaction restart program (DFHREST) has failed for task number** *tasknum***. Transaction restart is not performed for transaction** *tranid***.**

Explanation: A restartable transaction abended and the transaction manager attempted to link to the user-replaceable transaction restart program (DFHREST) but the link has failed. Likely reasons are

- DFHREST is not defined (and not autoinstalled)
- DFHREST is not present in any library specified in the DFHRPL concatenation.
- DFHREST has been linked with AMODE(24).

System action: The transaction is not restarted.

User response: If the problem is not rectified, a message is issued each time the link to DFHREST fails. To avoid this, ensure that DFHREST is properly defined and present in a library specified in the DFHRPL concatenation.

See the *CICS Customization Guide* for more information about user-replaceable programs.

Module: DFHXMTA.

XMEOUT Parameters: *date, time,applid, tasknum, tranid*

Destination: Console and Transient Data Queue CSMT

DFHXM0302 *applid* **An abend** *abcode* **occurred in the user-replaceable transaction restart program (DFHREST) under task number** *tasknum***. Transaction restart is not performed for transaction** *tranid***.**

Explanation: A restartable transaction abended and the transaction manager linked to the user-replaceable transaction restart program (DFHREST). DFHREST abended.

System action: The transaction is not restarted.

User response: If the problem is not rectified, a message is issued each time DFHREST abends. To avoid this, fix the problem in DFHREST and ensure that it is properly defined and present in a library specified in the DFHRPL concatenation.

See the *CICS Customization Guide* for more information about user-replaceable programs.

Module: DFHXMTA.

XMEOUT Parameters: *applid, abcode,tasknum, tranid*

Destination: Console

DFHXM0303 *applid* **A severe error (code** *X'code'***) has occurred while initializing task number** *tasknum* **with transaction identifier** *tranid***. Terminal** *termid* **has not been released. The task is suspended indefinitely.**

Explanation: An internal error has prevented the initialization of task number *tasknum* with identifier *tranid*.

The task cannot run and cannot be abended. The principal facility of the task is a terminal. No message may be sent to the terminal and it is unusable by CICS. Rather than terminate CICS, the transaction manager keeps CICS running and preserves its integrity by suspending the task.

The suspended task will hold its MXT slot until CICS is terminated.

Note that the task may hold resources (for example, locks and enqueues) so you should cancel CICS at your earliest convenience. Otherwise you may risk other tasks being prevented from running because they also need access to the same resources. You may wish to add a dump table entry to always terminate CICS on this message.

System action: The task is suspended indefinitely. First failure diagnostics should be produced by the component which first detects the error. The transaction manager also takes a dump. Message DFHME0116 should be produced containing the symptom string for this problem.

The terminal principal facility of the task is unusable by CICS until CICS is canceled.

The task is suspended with a resource type of FOREVER and a resource name of DFHXMTA.

User response: You must cancel CICS if you need to release the terminal associated with the task. You cannot quiesce CICS since this task will not terminate. You cannot purge or force-purge the task.

Note the error code X'*code*. You need further assistance from IBM to resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHXMTA.

XMEOUT Parameters: *applid, X'code',tasknum, tranid, termid*

Destination: Console

DFHXM0304 *applid* **A severe error (code** *X'code'***) has occurred while initializing task number** *tasknum* **with transaction identifier** *tranid***. Transient data queue** *tdqueue* **has not been released. The task is suspended indefinitely.**

Explanation: An internal error has prevented the initialization of task number *tasknum* with identifier *tranid*.

The task cannot run and cannot be abended. The principal facility of the task is a transient data queue. The TD queue will not trigger another task until CICS is terminated. Rather than terminate CICS, the transaction manager keeps CICS running and preserves its integrity by suspending the task.

The suspended task will hold its MXT slot until CICS is terminated.

Note that the task may hold resources (for example, locks and enqueues) so you should cancel CICS at your earliest convenience. Otherwise you risk other tasks being prevented from running because they also need access to the same resources. You may wish to add a dump table entry always to terminate CICS on this message.

System action: The task is suspended indefinitely. First failure diagnostics should be produced by the component which first detects the error. The transaction manager also takes a dump. Message DFHME0116 should be produced containing the symptom string for this problem.

The task is suspended with a resource type of FOREVER and a resource name of DFHXMTA.

User response: You must cancel CICS if you need to release the TD queue associated with the task. You cannot quiesce CICS since this task will not terminate. You cannot purge or force-purge the task.

Note the error code X'*code*. You need further assistance from IBM to resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHXMTA.

XMEOUT Parameters: *applid, X'code',tasknum, tranid, tdqueue*

Destination: Console

DFHXM0305 *applid* **A severe error (code** *X'code'***) has occurred while initializing task number** *tasknum* **with transaction identifier** *tranid***. The interval control element has not been released. The task is suspended indefinitely.**

Explanation: An internal error has prevented the initialization of task number *tasknum* with identifier *tranid*.

The task cannot run and cannot be abended. The principal facility of the task is an interval control element. Any start data associated with the ICE will not be retrieved. Rather than terminate CICS, the transaction manager keeps CICS running and preserves its integrity by suspending the task.

The suspended task will hold its MXT slot until CICS is terminated.

Note that the task may hold resources (for example, locks and enqueues) so you should cancel CICS at your earliest convenience. Otherwise you may risk other tasks being prevented from running because they also need access to the same resources. You may wish to add a dump table entry always to terminate CICS on this message.

System action: The task is suspended indefinitely. First failure diagnostics should be produced by the component which first detects the error. The transaction manager also takes a dump. Message DFHME0116 should be produced containing the symptom string for this problem.

The task is suspended with a resource type of FOREVER and a resource name of DFHXMTA.

User response: You must cancel CICS if you need to destroy the ICE. Any start data will remain in temporary storage until it is deleted unless it is nonrecoverable in which case it will disappear on the next cold, initial or emergency restart of CICS. You cannot quiesce CICS since this task will not terminate. You cannot purge or force-purge the task.

Note the error code X'*code*. You need further assistance from IBM to resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHXMTA.

XMEOUT Parameters: *applid, X'code',tasknum, tranid*

Destination: Console

DFHXM0306 *applid* **A severe error (code** *X'code'***) has occurred while initializing task number** *tasknum* **with transaction identifier** *tranid***. The task is suspended indefinitely.**

Explanation: An internal error has prevented the initialization of task number *tasknum* with identifier *tranid*.

The task cannot run and cannot be abended. The task has no principal facility bound to it. Rather than terminate CICS, the transaction manager keeps CICS running and preserves its integrity by suspending the task.

The suspended task will hold its MXT slot until CICS is terminated.

Note that the task may hold resources (for example, locks and enqueues) so you should cancel CICS at your earliest convenience. Otherwise you may risk other tasks being prevented from running because they also need access to the same resources. You may wish to add a dump table entry to always terminate CICS on this message.

System action: The task is suspended indefinitely. First failure diagnostics should be produced by the component which first detects the error. The transaction manager also takes a dump. Message DFHME0116 should be produced containing the symptom string for this problem.

The task is suspended with a resource type of FOREVER and a resource name of DFHXMTA.

User response: You must cancel CICS if you need to destroy the task. You cannot quiesce CICS since this task will not terminate. You cannot purge or force purge the task.

Note the error code X'*code*. You need further assistance from IBM to resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHXMTA.

XMEOUT Parameters: *applid, X'code',tasknum, tranid*

Destination: Console

DFHXM0307 *applid* **A severe error (code** *X'code'***) has occurred while terminating task number** *tasknum* **with transaction identifier** *tranid***. The terminal** *termid* **has not been released. The task is suspended indefinitely.**

Explanation: An internal error has prevented the termination of task number *tasknum* with identifier *tranid*. It is not possible to abend the task or send a message to its terminal principal facility. Rather than terminate CICS, the transaction manager keeps CICS running and preserves its integrity by suspending the task.

The suspended task will hold its MXT slot until CICS is terminated.

Note that the task may hold resources (for example, locks and enqueues) so you should cancel CICS at your earliest convenience. Otherwise you may risk other tasks being prevented from running because they also need access to the same resources. You may wish to add a dump table entry to always terminate CICS on this message.

System action: The task is suspended indefinitely. First failure diagnostics should be produced by the component which detected the error. The transaction manager also takes a dump. Message DFHME0116 should be produced containing the symptom string for this problem.

The terminal principal facility of the task is unusable until CICS is canceled.

The task is suspended with a resource type of FOREVER and a resource name of DFHXMTA.

User response: You must cancel CICS if you need to free up the terminal associated with the task. You cannot quiesce CICS since this task will not terminate. You cannot purge or force purge the task.

Note the error code X'*code*. You need further assistance from IBM to resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHXMTA.

XMEOUT Parameters: *applid, X'code',tasknum, tranid, termid*

Destination: Console

DFHXM0308 *applid* **A severe error (code** *X'code'***) has occurred while terminating task number** *tasknum* **with transaction identifier** *tranid***. The transient data queue** *tdqueue* **has not been released. The task is suspended indefinitely.**

Explanation: An internal error has prevented the termination of task number *tasknum* with identifier *tranid*. It is not possible to abend the task. The principal facility of the task is a transient data queue. The TD queue will not trigger another task until CICS is terminated. Rather than terminate CICS, the transaction manager keeps CICS running and preserves its integrity by suspending the task.

The suspended task will hold its MXT slot until CICS is terminated.

Note that the task may hold resources (for example, locks and enqueues) so you should cancel CICS at your earliest convenience. Otherwise you may risk other tasks being prevented from running because they also need access to the same resources. You may wish to add a dump table entry always to terminate CICS on this message.

System action: The task is suspended indefinitely. First failure diagnostics should be produced by the component which detected the error. The transaction manager also takes a dump. Message DFHME0116 should be produced containing the symptom string for this problem.

The task is suspended with a resource type of FOREVER and a resource name of DFHXMTA.

User response: You must cancel CICS if you need to free up the transient data queue associated with the task. You cannot quiesce CICS since this task will not terminate. You cannot purge or force purge the task.

Note the error code X'*code*. You need further assistance from IBM to resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHXMTA.

XMEOUT Parameters: *applid, X'code',tasknum, tranid, tdqueue*

Destination: Console

DFHXM0309 *applid* **A severe error (code** *X'code'***) has occurred while terminating task number** *tasknum* **with transaction identifier** *tranid***. The interval control element has not been released. The task is suspended indefinitely.**

Explanation: An internal error has prevented the termination of task number *tasknum* with identifier *tranid*. It is not possible to abend the task. The principal facility of the task is an interval control element. Rather

than terminate CICS, the transaction manager keeps CICS running and preserves its integrity by suspending the task.

The suspended task will hold its MXT slot until CICS is terminated.

Note that the task may hold resources (for example, locks and enqueues) so you should cancel CICS at your earliest convenience. Otherwise you may risk other tasks being prevented from running because they also need access to the same resources. You may wish to add a dump table entry to always terminate CICS on this message.

System action: The task is suspended indefinitely. First failure diagnostics should be produced by the component which detected the error. The transaction manager also takes a dump. Message DFHME0116 should be produced containing the symptom string for this problem.

The task is suspended with a resource type of FOREVER and a resource name of DFHXMTA.

User response: You must cancel CICS if you need to destroy the ICE associated with the task. Any start data remains in temporary storage until it is deleted unless it is nonrecoverable, in which case it disappears on the next cold, initial or emergency restart of CICS. You cannot quiesce CICS since this task does not terminate. You cannot purge or force purge the task.

Note the error code X'*code*. You need further assistance from IBM to resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHXMTA.

XMEOUT Parameters: *applid, X'code',tasknum, tranid*

Destination: Console

DFHXM0310 *applid* **A severe error (code** *X'code'***) has occurred while terminating task number** *tasknum* **with transaction identifier** *tranid***. If the task had a principal facility, it has been released. The task is suspended indefinitely.**

Explanation: An internal error has prevented the termination of task number *tasknum* with identifier *tranid*. It is not possible to abend the task. Rather than terminate CICS, the transaction manager keeps CICS running and preserves its integrity by suspending the task.

The suspended task will hold its MXT slot until CICS is terminated.

Note that the task may hold resources (for example, locks and enqueues) so you should cancel CICS at your earliest convenience. Otherwise you risk other tasks being prevented from running because they also need access to the same resources. You may wish to add a dump table entry always to terminate CICS on this message.

System action: If the task had a principal facility, it has been released. If this was a terminal, the terminal should be usable by CICS.

The task is suspended indefinitely. First failure diagnostics should be produced by the component which detects the error. The transaction manager also takes a dump. Message DFHME0116 should be produced containing the symptom string for this problem.

The task is suspended with a resource type of FOREVER and a resource name of DFHXMTA.

User response: You cannot quiesce CICS since this task will not terminate. You cannot purge or force-purge the task.

Note the error code X'*code*.

You need further assistance from IBM to resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHXMTA.

XMEOUT Parameters: *applid, X'code',tasknum, tranid*

Destination: Console

DFHXM0311 *applid* **A severe error (code** *X'code'***) has occurred while initializing task number** *tasknum* **with transaction identifier** *tranid***. Scheduler resources associated with the task have not been released. The task is suspended indefinitely.**

Explanation: An internal error has prevented the initialization of task number *tasknum* with identifier *tranid*.

The task cannot run and cannot be abended. The principal facility of the task is the scheduler. The scheduler will not initiate another task until CICS is terminated. Rather than terminate CICS, the transaction manager keeps CICS running and preserves its integrity by suspending the task.

The suspended task will hold its MXT slot until CICS is terminated.

Note that the task may hold resources (for example, locks and enqueues), so you should cancel CICS at your earliest convenience. Otherwise, you risk other tasks being prevented from running because they also need access to the same resources. You may wish to add a dump table entry to always terminate CICS on production of this message.

System action: The task is suspended indefinitely. First failure diagnostics should be produced by the component which first detects the error. The transaction manager also takes a dump. Message DFHME0116

should be produced containing the symptom string for this problem.

The task is suspended with a resource type of FOREVER and a resource name of DFHXMTA.

User response: You must cancel CICS if you need to release the resources associated with the task. You cannot quiesce CICS since this task will not terminate. You cannot purge or force-purge the task.

Note the error code X'*code*. You need further assistance from IBM to resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHXMTA.

XMEOUT Parameters: *applid, X'code',tasknum, tranid*

Destination: Console

DFHXM0501 *applid* **CICS cannot satisfy request for MXT. Value** *mxtvalue* **has been used instead.**

Explanation: The value entered for MXT cannot be handled by the system. *mxtvalue* is the largest value for which CICS has been able to acquire task storage.

The majority of the task storage required is now acquired from CICS DSAs.

System action: The system continues to run with a MXT value of *mxtvalue*.

User response: Check that the original value entered for MXT was correctly typed. If the value is mistyped, use CEMT to amend the MXT value (you are unlikely to be able to force the value higher). Remember that MXT now only includes user tasks and so it should not need to be set to a value as high as in previous releases.

If the value *mxtvalue* is acceptable, no action is necessary.

If the value *mxtvalue* is too small, check to see which programs, apart from CICS, are running in this region. To relieve the storage constraint, either increase the DSALIM or EDSALIM of the system to give CICS more storage for its own use. For further details about storage allocation at initialization, see the *CICS Transaction Server for z/OS Installation Guide*.

Module: DFHXMSR

XMEOUT Parameters: *applid, mxtvalue*

Destination: Console

DFHXM0502 *applid* **A catalog failure has occurred while saving the MXT setting.**

Explanation: An error has occurred while saving the requested MXT setting on the catalog.

System action: The requested MXT change request continues as normal.

Depending upon the error that has occurred with the catalog, there may be severe problems if a warm or emergency restart of CICS is attempted. The catalog domain will have issued a message outlining the problem in this case.

Alternatively the problem may only be local to the catalog record containing the MXT value and only it may not be recovered on a warm or emergency restart.

User response: No immediate action is required. Consider performing a cold or initial start, with the required MXT value specified in the SIT the next time CICS is restarted. If a cold start is not appropriate, add MXT as a SIT override specifying the required MXT value.

Module: DFHXMSR

XMEOUT Parameter: *applid*

Destination: Console

DFHXM0503 *applid* **CICS cannot support minimum MXT value of** *minmxt***. CICS is terminated.**

Explanation: A severe lack of storage has resulted in CICS not being able to acquire enough task storage to satisfy even the minimum MXT value of *minmxt*.

CICS cannot perform any useful work without *minmxt* number of user tasks.

System action: CICS is terminated.

User response: Investigate why there is insufficient storage for CICS to support such a low number of user tasks.

To relieve the storage constraint, either increase the DSALIM or EDSALIM of the system to give CICS more storage for its own use. For further details about storage allocation at initialization, see the *CICS Transaction Server for z/OS Installation Guide*.

Module: DFHXMSR

XMEOUT Parameters: *applid, minmxt*

Destination: Console

DFHXOnnnn messages

DFHXO6700 OPTION STARTING *xxx* **HAS ILLEGAL SYNTAX.**

Explanation: The option *xxx* has illegal syntax.

System action: The overseer program is abnormally terminated after completion of parameter analysis.

User response: Correct the error and resubmit the overseer program.

Module: DFHWOSA

Destination: Console

DFHXO6702 JOB STEP IS NOT APF-AUTHORIZED.

Explanation: Part of CICS initialization must be done in an APF-authorized state. The kernel has detected that DFHSIP is not APF-authorized.

System action: The overseer program is abnormally terminated.

User response: Ensure that the job step is APF-authorized. All libraries concatenated in the STEPLIB concatenation should be APF-authorized, and DFHSIP should be link-edited with an authorization code of 1.

Module: DFHWOSA

Destination: Console

DFHXO6703 UNABLE TO SET UP AUTHORIZED FACILITY.

Explanation: Insufficient storage is available to initialize the authorized facility required by the overseer.

System action: The overseer program is abnormally terminated.

User response: Ensure that the REGION parameter is sufficiently large.

Module: DFHWOSA

Destination: Console

DFHXO6704 UNABLE TO OPEN DFHLIB.

Explanation: A DD statement for (ddname) DFHLIB was missing from the batch job stream.

System action: The overseer program is abnormally terminated.

User response: Correct the JCL.

Module: DFHWOS

Destination: Console

DFHXO6705 *xxx* **OPTION IS MISSING.**

Explanation: The option *xxx* may not be omitted.

System action: The overseer program is abnormally terminated after completion of parameter analysis.

User response: Correct the error and resubmit the overseer program.

Module: DFHWOSA

Destination: Console

DFHXO6706 CYTIM OPTION MUST BE IN RANGE 20 TO 32767.

Explanation: The CYTIM option must fall within the range 20 through 32767.

System action: The overseer program is abnormally terminated after completion of parameter analysis.

User response: Correct the error and resubmit the overseer program.

Module: DFHWOSA

Destination: Console

DFHXO6707 VALUE OF *xxx* **OPTION IS LONGER THAN 5 DIGITS.**

Explanation: The value of the given numeric option must occupy no more than five digits.

System action: The overseer program is abnormally terminated after completion of parameter analysis.

User response: Correct the error and resubmit the overseer program.

Module: DFHWOSA

Destination: Console

DFHXO6708 VALUE OF *xxx* **OPTION IS NON-NUMERIC.**

Explanation: The value of the option *xxx* must be numeric.

System action: The overseer program is abnormally terminated after completion of parameter analysis.

User response: Correct the error and resubmit the overseer program.

Module: DFHWOSA

Destination: Console

DFHXO6709 VALUE OF *xxx* **OPTION IS LONGER THAN 8 CHARACTERS.**

Explanation: The value of option *xxx*must occupy no more than eight characters.

System action: The overseer program is abnormally terminated after completion of parameter analysis.

User response: Correct the error and resubmit the overseer program.

Module: DFHWOSA

Destination: Console

DFHXO6712 *xxx* **IS AN INVALID OPTION KEYWORD.**

Explanation: The specified keyword *xxx* is an invalid option.

System action: Option *xxx* is ignored.

User response: Correct the error.

Module: DFHWOSA

Destination: Console

DFHXO6720 THE CICS XRF OVERSEER HAS RECEIVED AN INVALID RESPONSE TO A SUBSYSTEM INTERFACE REQUEST.

Explanation: Overseer services has received an inconsistent response to an MVS subsystem interface request for job status. The response indicates insufficient storage although more than the indicated necessary amount is provided.

System action: A dump is taken and the overseer job abnormally terminates with MVS user abend code 224.

User response: You need further assistance from IBM to resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHWOSB

Destination: Console

DFHXO6721 THE CICS XRF OVERSEER HAS BEEN UNABLE TO GET STORAGE FOR A SUBSYSTEM INTERFACE REQUEST.

Explanation: The XRF overseer application program has issued a DFHWOSM FUNC=JJC, JJS or QJJS macro. The MVS subsystem interface request issued by the overseer services program while processing this request has failed. The response indicates that the reply area is too small. The MVS GETMAIN request to obtain a larger area is not satisfied.

System action: The subsystem options block (SSOB), indicating 'status array too small' (SSOBRETN=SSCSMALL), is returned to the caller in the 256 byte SSOB return area specified in the DFHWOSM macro.

User response: Since the areas involved are small, the condition should not normally occur. If it persists, or disrupts the effectiveness of your overseer application, you may need to cancel the overseer job with a dump to investigate the reason for the shortage of storage.

Module: DFHWOSB

Destination: Console

DFHXQnnnn messages

DFHXQ0101I Shared TS queue server initialization is in progress.

Explanation: The queue server program has started execution.

System action: Initialization continues.

User response: None.

Module: DFHXQMN

Destination: Console and SYSPRINT

DFHXQ0102I Shared TS queue server for pool *poolname* **is now active.**

Explanation: The queue server for the named pool has completed initialization and is now ready to accept connections.

System action: The server waits for connection requests or operator commands.

User response: None.

Module: DFHXQMN

Destination: Console and SYSPRINT

DFHXQ0103 The pool name parameter is missing.

Explanation: The shared TS queue server program needs to know the name of the queue pool in order to complete initialization but no pool name was specified in the SYSIN or PARM field parameters.

System action: The queue server is terminated.

User response: Ensure that the parameter POOLNAME=name is specified either in the SYSIN parameters or in the PARM field of the JCL for the queue server.

Module: DFHXQMN

Destination: Console and SYSPRINT

DFHXQ0104 Shared TS queue server initialization failed because program DFHXQMN is not APF authorized.

Explanation: The queue server main program DFHXQMN cannot complete initialization because it is not running with APF authorization.

System action: The queue server is terminated.

User response: Ensure that the queue server program DFHXQMN is loaded from an APF authorized library and has been linkedited with the option AC(1).

Module: DFHXQMN

Destination: Console and SYSPRINT

DFHXQ0111I Shared TS queue server for pool *poolname* **is terminating.**

Explanation: The queue server has started termination processing, so no further requests will be processed.

System action: Termination continues.

User response: None.

Module: DFHXQMN

Destination: Console and SYSPRINT

DFHXQ0112I Shared TS queue server has terminated, return code *retcode***, reason code** *rsncode***.**

Explanation: The queue server has completed termination processing. If the termination was caused by an error, the return code will be non-zero and the reason code will normally be the number of a previous DFHXQnnnn message giving the reason for termination.

System action: The queue server program returns control (via the AXM termination routines) to MVS for job step termination.

User response: None.

Module: DFHXQMN

Destination: Console and SYSPRINT

DFHXQ0113 Shared TS queue server completion code is *cmpcode***, reason code** *rsncode***.**

Explanation: The queue server has terminated after intercepting an abnormal termination (ABEND) request. If the completion code is a system completion code, it is shown as three hexadecimal digits, otherwise it is shown as four decimal digits for a user completion code.

System action: The queue server program returns control (via the AXM termination routines) to MVS for job step termination.

User response: None.

Module: DFHXQMN

Destination: Console and SYSPRINT

DFHXQ0121I Automatic restart support is not available because &SYSCLONE may not be unique within the sysplex.

Explanation: The server attempted to generate a default ARM element identifier to use for automatic restart registration, using the one or two character &SYSCLONE value to identify the MVS system. Normally, MVS verifies during start-up that &SYSCLONE is unique within the sysplex. However, the server is running on a level of MVS where this check is optional and has not been performed, so the server is unable to generate a unique element identifier.

System action: The server is terminated.

User response: Servers should not normally be run on a level of MVS which does not enforce unique &SYSCLONE values. However, the problem can be bypassed by specifying an ARM element name explicitly on the server ARMELEMENT parameter.

Module: DFHXQRS

Destination: Console and SYSPRINT

DFHXQ0122 IXCARM REQUEST=*reqtype* **failed, return code** *retcode***, reason code** *rsncode***.**

Explanation: A request to the MVS automatic restart manager (ARM) gave an unexpected return code. The return code and reason code are shown in hexadecimal notation.

System action: The server is terminated.

User response: See the IXCARM macro in *z/OS MVS System Management Facilities (SMF)* for the explanation of the return and reason code.

Module: DFHXQRS

Destination: Console and SYSPRINT

DFHXQ0123 IXCARM REQUEST=*reqtype* **failed, return code** *retcode***, reason code** *rsncode***.**

Explanation: Automatic restart support is not available. The MVS automatic restart manager (ARM) gave a return code and reason code which indicates that ARM services are not available, but the reason could possibly be intentional or unavoidable, so the server is being allowed to continue execution without automatic restart support. The return code and reason code are shown in hexadecimal notation.

System action: The server continues initialisation without automatic restart support.

User response: See the IXCARM macro in *OS/390 MVS Programming Sysplex Services Reference* (GC28-1772) for the explanation of the return and reason code.

Module: DFHXQRS

Destination: Console and SYSPRINT

DFHXQ0201I Processing *type parameters*

Explanation: The queue server parameter processing routine is interpreting the specified parameter string. The first word gives the type of parameter (SYSIN/PARM/SET/DISPLAY/PRINT) and the rest is the specified parameters optionally followed by descriptive comment text after one or more spaces. If

the parameters start with an asterisk or a space, the whole line is taken as descriptive comments.

System action: Any specified parameters will be processed.

User response: None.

Module: DFHXQPR

Destination: SYSPRINT

DFHXQ0202 Unknown parameter keyword: *keyword*

Explanation: This parameter keyword did not match any of the defined parameter keywords for the queue server.

System action: Processing of the current line of parameters is terminated. For an initialization parameter specified in SYSIN or the PARM field, a return code is set which will cause the server to terminate when initialization parameter processing is complete.

User response: Correct the parameter keyword (or remove the incorrect parameter) and reenter the command or restart the server.

Module: DFHXQPR

Destination: Console and SYSPRINT

DFHXQ0203 Value *value* **for parameter** *keyword* **is incorrect. It must be a name of up to** *maxlength* **characters.**

Explanation: The value of this parameter should have been specified as a name containing not more than the indicated number of characters.

System action: Processing of the current line of parameters is terminated. For an initialization parameter specified in SYSIN or the PARM field, a return code is set which will cause the server to terminate when initialization parameter processing is complete.

User response: Correct the parameter keyword (or remove the incorrect parameter) and reenter the command or restart the server.

Module: DFHXQPR

Destination: Console and SYSPRINT

DFHXQ0204 Value *value* **for parameter** *keyword* **is incorrect. It must be a decimal number.**

Explanation: The value of this queue server parameter should have been specified as a decimal number but was not in a valid format. (Numeric parameters can optionally be followed by the letter K, M, G or T to denote the appropriate powers of 1024).

System action: Processing of the current line of parameters is terminated. For an initialization parameter specified in SYSIN or the PARM field, a return code is set which will cause the server to terminate when initialization parameter processing is complete.

User response: Correct the parameter value (or remove the incorrect parameter) and reenter the command or restart the server.

Module: DFHXQPR

Destination: Console and SYSPRINT

DFHXQ0205 Value *value* **for parameter** *keyword* **is greater than the maximum allowed value** *maximum***.**

Explanation: The value of this queue server parameter exceeded the maximum allowed value *maximum*. This message also occurs if the numeric part of a decimal value exceeds the maximum unsigned 32-bit integer (4294967295) even if a larger value is allowed to be specified by using a suffix "K", "M", "G" or "T".

System action: Processing of the current line of parameters is terminated. For an initialization parameter specified in SYSIN or the PARM field, a return code is set which will cause the server to terminate when initialization parameter processing is complete.

User response: Correct the parameter value (or remove the incorrect parameter) and reenter the command or restart the server.

Module: DFHXQPR

Destination: Console and SYSPRINT

DFHXQ0206 Value *value* **for parameter** *keyword* **is less than the minimum allowed value** *minimum***.**

Explanation: The value of this queue server parameter was less than the minimum allowed value *minimum*.

System action: Processing of the current line of parameters is terminated. For an initialization parameter specified in SYSIN or the PARM field, a return code is set which will cause the server to terminate when initialization parameter processing is complete.

User response: Correct the parameter value (or remove the incorrect parameter) and reenter the command or restart the server.

Module: DFHXQPR

Destination: Console and SYSPRINT

DFHXQ0207 Value *value* for parameter *keyword* is incorrect. It should be a time hh:mm:ss or hh:mm or a number of seconds.

Explanation: The value of this queue server parameter did not conform to the correct syntax for a time interval.

System action: Processing of the current line of parameters is terminated. For an initialization parameter specified in SYSIN or the PARM field, a return code is set which will cause the server to terminate when initialization parameter processing is complete.

User response: Correct the parameter value (or remove the incorrect parameter) and reenter the command or restart the server.

Module: DFHXQPR

Destination: Console and SYSPRINT

DFHXQ0208 Parameter keyword *keyword* is not supported for *command*.

Explanation: A queue server parameter keyword was specified in a context where it is not valid, usually indicating an attempt to SET dynamically a parameter which can only be specified at initialization time.

System action: Processing of the current line of parameters is terminated. For an initialization parameter specified in SYSIN or the PARM field, a return code is set which will cause the server to terminate when initialization parameter processing is complete.

User response: Correct the parameter value (or remove the incorrect parameter) and reenter the command or restart the server.

Module: DFHXQPR

Destination: Console and SYSPRINT

DFHXQ0209 Parameter text contains invalid character: *text*

Explanation: The queue server parameter processing routine found some unexpected text when attempting to process parameters.

System action: Processing of the current line of parameters is terminated. For an initialization parameter specified in SYSIN or the PARM field, a return code is set which will cause the server to terminate when initialization parameter processing is complete.

User response: Correct the parameters (or remove the incorrect parameter) and reenter the command or restart the server.

Module: DFHXQPR

Destination: Console and SYSPRINT

DFHXQ0210 Parameter keyword *keyword* should not have a value for *command*.

Explanation: A queue server parameter keyword was specified in the form keyword=value in a context where it was not expected, for example on a DISPLAY command.

System action: Processing of the current line of parameters is terminated. For an initialization parameter specified in SYSIN or the PARM field, a return code is set which will cause the server to terminate when initialization parameter processing is complete.

User response: Reenter the command without specifying a value for the parameter to be displayed.

Module: DFHXQPR

Destination: Console and SYSPRINT

DFHXQ0211I Parameter value: *keyword=value*

Explanation: This message is issued to show the current value of a queue server parameter setting in response to a DISPLAY or PRINT command.

System action: Processing continues normally.

User response: None.

Module: DFHXQPR

Destination: Console and SYSPRINT

DFHXQ0212 Value *value* for parameter *keyword* is incorrect. It must be one of *validlist*.

Explanation: The value of this queue server parameter was not recognized. It should have been specified as one of the indicated list of values.

System action: Processing of the current line of parameters is terminated. For an initialization parameter specified in SYSIN or the PARM field, a return code is set which will cause the server to terminate when initialization parameter processing is complete.

User response: Correct the parameter value (or remove the incorrect parameter) and reenter the command or restart the server.

Module: DFHXQPR

Destination: Console and SYSPRINT

DFHXQ0213 Value for parameter *keyword* is missing. The correct form is keyword=value.

Explanation: A parameter keyword was specified without an associated parameter value on a queue server SET command or in a SYSIN or PARM

parameter string. Note that the only character which should appear between the parameter keyword and its intended value is the equals sign, without any extra spaces.

System action: Processing of the current line of parameters is terminated. For an initialization parameter specified in SYSIN or the PARM field, a return code is set which will cause the server to terminate when initialization parameter processing is complete.

User response: Reenter the parameter specification in the correct form keyword=value.

Module: DFHXQPR

Destination: Console and SYSPRINT

DFHXQ0301I Console operator *consname* **issued command:** *command*

Explanation: A queue server operator command has been issued via the MVS MODIFY or STOP command. This message identifies the console name (or TSO userid) from which the command was issued and the text of the command.

System action: Processing continues.

User response: None.

Module: DFHXQOP

Destination: SYSPRINT

DFHXQ0302I *command* **command ignored because no valid parameters were given.**

Explanation: A queue server command was issued which had no valid parameters on it but was otherwise syntactically valid. The command has had no effect.

System action: Processing continues normally.

User response: Ensure that the command was entered correctly.

Module: DFHXQOP

Destination: Console and SYSPRINT

DFHXQ0303I *command* **command has been processed.**

Explanation: A queue server command has been processed successfully.

System action: Processing continues.

User response: None.

Module: DFHXQOP

Destination: Console and SYSPRINT

DFHXQ0304I STOP command is waiting for connections to be closed. Number of active connections = *connections***.**

Explanation: A queue server STOP command has been issued (either via an MVS STOP command or via an MVS MODIFY command with the text STOP) but there are still active connections to the server, so the STOP command has not yet taken effect.

System action: The server rejects any further attempts to establish new connections, but continues processing requests for existing connections. Each time a connection is terminated, this message is repeated for as long as there are more active connections.

User response: Further information about the connections which are still active can be obtained using the command DISPLAY CONNECTIONS.

If the server needs to be shut down without waiting for connections to be closed, issue the queue server CANCEL command. Note that this immediately terminates any active connections, causing any further requests for that server to be given a SYSIDERR indication. (The MVS CANCEL command can also be used, but should preferably be avoided because it prevents the server from producing its normal closedown statistics and reports).

Note that if a CICS region is abnormally terminated while server connect or disconnect processing is in progress, or is terminated without going through end of task processing (for example using the FORCE command) there is a slight chance that the server will not be notified that the connection has been terminated. In this case the server is not able to be closed down with the server STOP command, but only with the server CANCEL command.

Module: DFHXQOP

Destination: Console and SYSPRINT

DFHXQ0305I STOP command has been processed.

Explanation: Processing of a queue server STOP command has now been successfully completed. This means that there are no longer any active connections and the server is ready to close down.

System action: The queue server starts termination processing.

User response: None.

Module: DFHXQOP

Destination: Console and SYSPRINT

DFHXQ0306 Shared TS queue server does not support this command: *command*

Explanation: An operator command was addressed to the queue server using the MVS MODIFY command,

but the first word of the MODIFY text is not a recognized queue server command (SET, DISPLAY, PRINT, STOP or CANCEL).

System action: The command is ignored.

User response: Correct and reenter the command.

Module: DFHXQOP

Destination: Console and SYSPRINT

DFHXQ0307I CANCEL *parm* **command has been processed. Number of active connections =** *connections***.**

Explanation: A queue server CANCEL command has been issued, either from an operator console or internally by the queue server in response to a severe error. This message includes any restart parameter specified on the command and the number of active connections which may be affected by this command.

System action: The queue server terminates immediately, without waiting to close connections.

User response: None.

Module: DFHXQOP

Destination: Console and SYSPRINT

DFHXQ0309 Parameter *parm* **on CANCEL command is incorrect. The only valid parameters are RESTART=YES or RESTART=NO.**

Explanation: A queue server **CANCEL** command was issued with a parameter which did not match the valid parameter keywords.

System action: The command is ignored.

User response: Correct and reenter the command.

Module: DFHXQOP

Destination: Console and SYSPRINT

DFHXQ0310 Parameter *parm* **on STOP command is incorrect. No parameters should be specified.**

Explanation: A queue server **STOP** command was issued with parameters, but the **STOP** command does not support any parameters.

System action: The command is ignored.

User response: Correct and reenter the command.

Module: DFHXQOP

Destination: Console and SYSPRINT

DFHXQ0351I Connection: Job *jobname* **Appl** *applid* **Idle** *idletime*

Explanation: This describes a single connection in response to the command DISPLAY CONNECTIONS or PRINT CONNECTIONS. The information shows the job name, the specific APPLID and the time in hours, minutes and seconds since the most recent queue request or inquire call was issued using the connection.

System action: This message is issued for each active connection then message DFHXQ0352I is issued to show the total number of active connections.

User response: None.

Module: DFHXQCN

Destination: Console and SYSPRINT

DFHXQ0352I Queue pool *poolname* **total active connections:** *connections***.**

Explanation: This describes the total number of active connections to the queue pool server, in response to the server command DISPLAY CONNECTIONS or PRINT CONNECTIONS.

System action: Processing continues.

User response: None.

Module: DFHXQCN

Destination: Console and SYSPRINT

DFHXQ0401I Connected to CF structure *strname***.**

Explanation: The queue server has successfully established a connection to the coupling facility list structure for the queue pool, using the IXLCONN macro.

System action: Processing continues.

User response: None.

Module: DFHXQCF

Destination: Console and SYSPRINT

DFHXQ0402I CF structure *strname* **was allocated by this connection.**

Explanation: The list structure did not previously exist and was allocated as part of the connection process.

System action: List structure initialization will be performed if necessary.

User response: None.

Module: DFHXQCF

Destination: Console and SYSPRINT

DFHXQ0403 Connection to CF structure *strname* **failed, IXLCONN return code** *retcode*, **reason code** *rsncode*.

Explanation: The IXLCONN macro to connect the queue server to its coupling facility list structure failed.

System action: The queue server is terminated.

User response: See the IXLCONN macro in *z/OS MVS Programming: Sysplex Services Guide* for the explanation of the return and reason code. If the reason code is of the form xxxx0C08, indicating structure allocation failure, this message is followed by message DFHXQ0409 giving the facility reason code for each CF in which allocation was attempted.

Module: DFHXQCF

Destination: Console and SYSPRINT

DFHXQ0404 CF structure *strname* **cannot be used because it has been allocated with attribute** *attribute*.

Explanation: The queue server has successfully connected to its list structure but has found that the structure has been allocated using an IXLCONN structure attribute keyword which is not supported by the queue server.

System action: The queue server is terminated.

User response: This probably indicates that the structure has been allocated or modified by some program other than the queue server. In this case, the incorrect structure should be deleted (for example using the SETXCF FORCE command) so that it will be reallocated correctly when the queue server is restarted.

Module: DFHXQCF

Destination: Console and SYSPRINT

DFHXQ0405 CF structure *strname* **element size** *elemsize* **is incorrect. It should be a power of 2 in the range 256 to 4096.**

Explanation: The queue server list structure element size (specified via the ELEMSIZE initialization parameter) is not a power of two, or is outside the range supported by the list structure hardware.

System action: The queue server is terminated (without attempting to connect to the list structure).

User response: Correct the ELEMSIZE parameter and restart the queue server.

Module: DFHXQCF

Destination: Console and SYSPRINT

DFHXQ0406 Initialization failed for CF structure *strname* **with response** *response*.

Explanation: Queue server processing to initialize the list structure failed with an abnormal internal response code.

System action: The server is terminated.

User response: If the response code is 8 (I/O error), it indicates that an IXLLIST macro gave an abnormal return code, in which case a previous DFHXQ0441 message will have been issued giving the IXLLIST return code and reason code. If this response code is any other value, this indicates that the list structure is in a state which should not occur, probably indicating that it was allocated or modified by a program other than the queue server. In this case the structure may need to be deleted (using SETXCF FORCE) so that it will be reallocated when the server is restarted.

Module: DFHXQCF

Destination: Console and SYSPRINT

DFHXQ0407 CF structure *strname* **is not available for shared use.**

Explanation: The queue pool is currently locked for exclusive use by some other job such as a queue pool unload or reload job. (This serialization uses an MVS ENQ with scope SYSTEMS for major name SYSZDFH minor name DFHXQLS_poolname).

System action: The server is terminated.

User response: Check whether a queue pool maintenance job is currently running. If it is, wait until it has finished before trying to start the server again.

Module: DFHXQCF

Destination: Console and SYSPRINT

DFHXQ0408 CF structure *strname* **is not available for exclusive use.**

Explanation: The current job (an unload or reload) requires exclusive use of the queue pool, but some other job is running which already has shared or exclusive use of the pool. (This serialization uses an MVS ENQ with scope SYSTEMS for major name SYSZDFH minor name DFHXQLS_poolname).

System action: The server is terminated.

User response: Check whether a queue pool server or maintenance job is currently running. If it is, wait until it has finished before trying to run the current job again.

Module: DFHXQCF

Destination: Console and SYSPRINT

DFHXQ0409 CF structure *strname* **could not be allocated in facility** *cfname*, **reason code** *rsncode*.

Explanation: If a previous message DFHXQ0403 indicated an IXLCONN failure because the structure could not be allocated, this message is issued for each CF in which allocation was attempted to show the facility reason code indicating why structure allocation failed. If the reason code is known to the server, the name of the reason code is given (without the ConaRsn prefix), otherwise its decimal value is shown.

If the response indicates InvalidStructureSize, this means that the initial list structure size (specified on the server POOLSIZE parameter or in the CFRM policy INITSIZE parameter) is not large enough to contain the required structure control information. The size of the control information is affected by the number of list headers (determined by the server MAXQUEUES parameter) and by the maximum structure size specified in the CFRM policy.

System action: The queue server is terminated.

User response: See the descriptions of the reason codes in the MVS macro IXLYCONA which maps the connect answer area.

If the response was InvalidStructureSize, increase the initial structure size specification in the server POOLSIZE parameter or the CFRM policy INITSIZE parameter to ensure that there is enough space for data in addition to the structure control information. Also, check that the server MAXQUEUES parameter and the maximum structure size specified in the CFRM policy are not unnecessarily large. See the *System Definition Guide* for more information on how to estimate temporary storage queue pool sizes.

Module: DFHXQCF

Destination: Console and SYSPRINT

DFHXQ0410 CF structure *strname* **cannot be used, coupling facility maintenance level is too low.**

Explanation: Initialization test routines executed against the allocated list structure gave incorrect results, indicating that the coupling facility control code does not include all maintenance necessary to support shared temporary storage.

System action: The queue server is terminated.

User response: Ensure that the required level of coupling facility maintenance is applied.

Module: DFHXQCF

Destination: Console and SYSPRINT

DFHXQ0411I CF structure *strname* **now has** *percentage*% **of entries in use.**

Explanation: This message is issued by the queue server when the percentage of list entries in use within the list structure increases past certain set threshold levels, or when it decreases past a threshold level after previously being at a higher level. This message is also issued immediately after an ALTER request has completed in order to show how the percentage has been affected by changes in the structure size or entry to element ratio.

System action: The warning threshold is increased to the next higher level (normally 5% higher if less than 95%, otherwise 1% higher), or decreased to the previous lower level depending on whether the usage is increasing or decreasing. If the structure usage is increasing and the structure element to entry ratio is not making full use of the available space, the server may issue an automatic IXLALTER request to adjust the ratio.

User response: Note that the structure may soon become full, preventing queues from being created. If the structure was allocated at less than its maximum size and the coupling facility has enough free space, the size of the structure can be altered dynamically using the MVS SETXCF command with the START,ALTER options.

Module: DFHXQCF

Destination: Console and SYSPRINT

DFHXQ0412I CF structure *strname* **now has** *percentage*% **of elements in use.**

Explanation: This message is issued by the queue server when the percentage of list data elements in use within the list structure increases past certain set threshold levels, or when it decreases past a threshold level after previously being at a higher level. This message is also issued immediately after an ALTER request has completed in order to show how the percentage has been affected by changes in the structure size or entry to element ratio.

System action: The warning threshold is increased to the next higher level (normally 5% higher if less than 95%, otherwise 1% higher), or decreased to the previous lower level depending on whether the usage is increasing or decreasing. If the structure usage is increasing and the structure element to entry ratio is not making full use of the available space, the server may issue an automatic IXLALTER request to adjust the ratio.

User response: Note that the structure may soon become full, preventing queues from being created. If the structure was allocated at less than its maximum size and the coupling facility has enough free space, the size of the structure can be altered dynamically using

the MVS SETXCF command with the START,ALTER options.

Module: DFHXQCF

Destination: Console and SYSPRINT

DFHXQ0413I Starting ALTER to adjust CF structure *strname* **entry/element ratio to** *entries/elements***.**

Explanation: The queue server has determined that the ratio of free entries to free elements is significantly different from the ratio of entries to elements actually in use. It is issuing an IXLALTER macro to request the coupling facility to adjust the ratio to make better use of the coupling facility storage.

System action: The server continues by issuing the IXLALTER macro. A further message will be issued when the ALTER request is accepted or rejected by MVS.

User response: None.

Module: DFHXQCF

Destination: Console and SYSPRINT

DFHXQ0414I ALTER started for CF structure *strname***.**

Explanation: The queue server has successfully started an ALTER request to change the entry to element ratio for the list structure.

System action: The queue server event exit will be notified by MVS when the ALTER request completes and a further message will then be issued.

User response: None.

Module: DFHXQCF

Destination: Console and SYSPRINT

DFHXQ0415I ALTER rejected for CF structure *strname***, ALTER already active.**

Explanation: The queue server attempted to start an ALTER to change the entry to element ratio for the list structure, but this was rejected by the system because another ALTER was already active.

System action: The queue server event exit will be notified by MVS when the ALTER request completes and a further message will then be issued.

User response: None.

Module: DFHXQCF

Destination: Console and SYSPRINT

DFHXQ0416 ALTER request failed for CF structure *strname***, IXLALTER return code** *retcode***, reason code** *rsncode***.**

Explanation: The queue server attempted to start an ALTER to change the entry to element ratio for the list structure, but this was rejected by the system with an unexpected return code.

System action: The current ALTER attempt is abandoned. Another attempt may be made when the minimum alter interval has expired.

User response: See the IXLALTER macro in *z/OS MVS Programming: Sysplex Services Guide* for the explanation of the return and reason code.

Module: DFHXQCF

Destination: Console and SYSPRINT

DFHXQ0417I ALTER completed normally for CF structure *strname***.**

Explanation: The queue server has been notified by the system that an ALTER request has completed normally.

System action: New values for the structure size and numbers of elements and entries are stored. This message is followed by messages DFHXQ0411 and DFHXQ0412 to indicate the new usage percentages.

User response: None.

Module: DFHXQCF

Destination: Console and SYSPRINT

DFHXQ0418I ALTER ended abnormally for CF structure *strname* **with status** *status***.**

Explanation: The queue server has been notified by the system that an ALTER request has ended abnormally. The two bytes of status information in this message are taken from EEPLALTERENDSTATEFLAGS in the event exit parameter list (defined in the IXLYEEPL macro).

System action: No action is taken as a result of this notification, but the problem which caused the ALTER to fail will probably result in other related problems.

User response: None.

Module: DFHXQCF

Destination: Console and SYSPRINT

DFHXQ0419I ALTER ended normally for CF structure *strname* **but target was not attained.**

Explanation: The queue server has been notified by the system that an ALTER request has ended normally but that the target ratio or target size was not attained.

System action: New values for the structure size and numbers of elements and entries are stored. This message is followed by messages DFHXQ0411 and DFHXQ0412 to indicate the new usage percentages.

User response: None.

Module: DFHXQCF

Destination: Console and SYSPRINT

DFHXQ0424 Connectivity has been lost to CF structure *strname*. The shared TS queue server cannot continue.

Explanation: The queue server has been notified by the system that connectivity has been lost to its list structure.

System action: The server issues an internal CANCEL command to terminate itself immediately.

User response: Restart the server when connectivity to the server from the current system has been reestablished. If connectivity is still available from other systems, CICS transactions which require access to the affected queue pool should be diverted to those systems if possible.

Module: DFHXQCF

Destination: Console and SYSPRINT

DFHXQ0425 CF structure *strname* has failed. The shared TS queue server cannot continue.

Explanation: The queue server has been notified by the system that its list structure has been lost due to coupling facility failure. All data in the queue pool has been lost.

System action: Each queue server for the affected pool issues an internal CANCEL command to terminate itself immediately.

User response: If another coupling facility is available and is included in the CFRM preference list for the failed structure, delete the failed structure and restart the servers to cause a fresh copy of the list structure to be allocated on the alternate coupling facility. If no other coupling facility is available, wait until the original coupling facility has been made available again before restarting the servers.

Module: DFHXQCF

Destination: Console and SYSPRINT

DFHXQ0431I Access statistics for CF structure *strname*

Explanation: This message gives a summary of coupling facility access statistics. It is issued in response to a DISPLAY or PRINT command which includes the CFSTATS parameter, and may also be produced on the SYSPRINT file during interval statistics if the statistics options include print file output.

The detailed message layout is as follows

```
9'.
Index: Wrt Adjs Writes Reads Deletes Rereads
             n      n     n       n       n
       Read Adjs
              n
Data: Creates Writes Reads Deletes Rereads
            n      n     n       n       n
      Rewrites
             n
Responses: Asynch Unavail Normal Len err
                n       n      n       n
           Not fnd Vers chk List chk
                 n        n        n
           List full  Str full   I/O err
                   n         n         n
```

System action: Processing continues.

User response: The statistics are described in detail in the DFHXQS1D data area. For queues which do not exceed 32K bytes, the data is included in the queue index, otherwise it is stored as a separate list. The individual fields have the following meanings

- Index access counts

  Wrt Adjs
  Number of index writes to update adjunct area only. (This area contains the read cursor for small queues and the queue status including last used data).

  Writes Number of queue writes (new or update) including data.

  Reads Number of queue index reads.

  Delete Number of queue deletes.

  Rereads
  Number of reads which had to be repeated because the data was larger than the default data transfer size.

  Read Adjs
  Number of index reads for the status area only. This is used for inquire processing, and also to read the queue details if necessary during delete processing.

- Data access counts

  Creates Number of times a separate data list was created.

  Writes Number of writes to add items to separate data lists.

  Reads Number of reads from separate data lists.

  Delete Number of times a separate data list was deleted.

Rereads
Number of reads which had to be repeated because the data was larger than the default data transfer size.

Rewrites
Number of writes to replace items in separate data lists.

- Response counts

Asynch
Number of requests for which completion was asynchronous.

Unavail
Number of times requests were deferred because the structure was temporarily unavailable, for example because system-managed rebuild was in progress.

Normal
Number of normal responses.

Len err The input buffer was too small to contain the data. The server often tries a buffer size of only 4K in order to use a synchronous read if possible. If this response occurs, the server sets up the maximum sized buffer and reissues the read.

Not fnd
The specified entry (queue or item) was not found.

Vers chk
A version check failed for an entry being updated or created, indicating that another task had updated it first.

List chk
A list authority comparison failed, usually meaning that the queue is in the process of being deleted.

List full
A queue reached the maximum number of items, causing the relevant list to be marked as full.

Str full The list structure became full.

I/O err Some other error code was returned by IXLLIST.

Module: DFHXQCF

Destination: Console and SYSPRINT

DFHXQ0432I Queue pool statistics for CF structure *strname*

Explanation: This message gives a summary of the usage statistics for the queue pool list structure. It is issued in response to a DISPLAY or PRINT command which includes the POOLSTATS parameter, and may also be produced on the SYSPRINT file during interval statistics if the statistics options include print file output.

The detailed message layout is as follows

```
9'.
Structure: Size Max size Elem size
             nK       nK         n
Queues: Current Highest
              n       n
Lists: Total In use  Max used  Control  Data
           n      n         n        n     n
         100%     n%        n%       n%    n%
Entries: Total  In use Max used  Free  Min free
             n       n        n     n         n
          100%      n%       n%    n%        n%
Elements: Total  In use  Max used  Free  Min free
              n       n         n     n         n
           100%      n%        n%    n%        n%
```

System action: Processing continues.

User response: The statistics are described in detail in the DFHXQS1D data area. Pool usage statistics are calculated from information returned by coupling facility requests, and are not always very accurate, especially if the relevant information has not been accessed recently by the current server. The individual fields have the following meanings

- Structure

  Size Current allocated size of the list structure.

  Max size
  Maximum size to which this structure could be altered.

  Elem size
  Data element size used for the structure.

- Queues

  Current
  Number of queues currently in existence.

  Highest
  Highest number of queues at any time (since last reset).

- Lists

  Total Maximum number of list headers in the structure.

  In Use Number currently in use.

  Max Used
  Maximum number in use (since last reset).

  Control
  Number of lists in use for control information.

  Data Number of lists in use for queue data.

- Entries

  Total Total entries in the currently allocated structure. (Obtained at connection time, may be updated by ALTER).

  In Use Number of entries currently in use.

Max Used
Maximum number in use (since last reset).

Free Number of entries currently free (total minus used).

Min Free
Minimum number of free entries (since last reset).

- Elements

Total Total data elements in the currently allocated structure. (Obtained at connection time, may be updated by ALTER).

In Use Number of elements currently in use.

Max Used
Maximum number in use (since last reset).

Free Number of elements currently free (total minus used).

Min Free
Minimum number of free elements (since last reset).

Module: DFHXQCF

Destination: Console and SYSPRINT

DFHXQ0441 CF structure *strname* request failed, IXLLIST return code *retcode*, reason code *rsncode*.

Explanation: A coupling facility access request issued via the IXLLIST macro gave an abnormal return code.

System action: The failing request is given an I/O error indication, giving an IOERROR condition if it originated from a CICS API request.

User response: See the IXLLIST macro in *z/OS MVS Programming: Sysplex Services Guide* for the explanation of the return and reason code.

Module: DFHXQCF

Destination: Console and SYSPRINT

DFHXQ0442 CF structure *strname* request failed, structure is full.

Explanation: A coupling facility access request issued via the IXLLIST macro failed because there are insufficient free entries or elements to store the new data in the structure.

System action: The failing request is given a NOSPACE indication if it originated from a CICS API request. For reload processing, if an automatic ALTER is in progress, the request may be suspended until the outcome of the ALTER is known, then retried. This message will not be issued again for further failures until the used numbers of elements and entries fall well below the warning threshold.

User response: Any queues which are no longer in use should be deleted so that the space can be reused. If the structure is not at its maximum size, it may be possible to start an ALTER request to increase the size using the MVS SETXCF command.

Module: DFHXQCF

Destination: Console and SYSPRINT

DFHXQ0443 CF structure *strname* request failed, all lists are in use.

Explanation: A coupling facility access request issued via the IXLLIST macro failed because all list headers defined in the structure are now in use. The number of list headers is determined by the MAXQUEUES server initialization parameter when the structure was allocated.

System action: The failing request is given a NOSPACE indication if it originated from a CICS API request. This message will not be issued again for further failures while the shortage of list entries remains.

User response: Any queues of total size greater than 32K bytes which are no longer in use should be deleted to free up data lists. As the number of lists is fixed when the structure is allocated, the only way to increase the number of lists is to unload the structure, use SETXCF FORCE to delete it then reload it with a larger MAXQUEUES parameter.

Module: DFHXQCF

Destination: Console and SYSPRINT

DFHXQ0444I CF request has been suspended to await ALTER completion.

Explanation: A coupling facility access request issued from the server address space (during reload processing) ran out of space in the list structure, but an automatic ALTER attempt to free up more space is either already active or is being started at this point. The request is therefore being suspended to await the outcome of the ALTER attempt.

System action: The request is suspended until either the ALTER request completes (normally or abnormally), then the request is retried.

User response: None.

Module: DFHXQCF

Destination: Console and SYSPRINT

DFHXQ0445I CF request is being retried after ALTER completion.

Explanation: A request which was suspended to await the completion of an ALTER request is now being

retried because the ALTER has either completed or failed.

System action: The suspended request will be restarted.

User response: None.

Module: DFHXQCF

Destination: Console and SYSPRINT

DFHXQ0451 Purge for CF structure *strname* **failed, IXLPURGE return code** *retcode*, **reason code** *rsncode*.

Explanation: A queue access request was terminated abnormally and the queue server issued an IXLPURGE macro to ensure any active IXLLIST request was purged before releasing the I/O buffer, but the IXLPURGE macro gave a non-zero return code.

System action: The error is ignored because this only occurs when a request is already being terminated abnormally.

User response: See the IXLPURGE macro in *z/OS MVS Programming: Sysplex Services Guide* for the explanation of the return and reason code.

Module: DFHXQCF

Destination: Console and SYSPRINT

DFHXQ0461I Disconnected from CF structure *strname*.

Explanation: The server has successfully disconnected from the CF structure (using the IXLDISC macro).

System action: Processing continues.

User response: None.

Module: DFHXQCF

Destination: Console and SYSPRINT

DFHXQ0462 Disconnect from CF structure *strname* **failed, IXLDISC return code** *retcode*, **reason code** *rsncode*.

Explanation: The IXLDISC macro to disconnect the queue server from its coupling facility list structure failed.

System action: The error is ignored, as disconnection only occurs when the server is already terminating.

User response: See the IXLDISC macro in *z/OS MVS Programming: Sysplex Services Guide* for the explanation of the return and reason code.

Module: DFHXQCF

Destination: Console and SYSPRINT

DFHXQ0481I Waiting for structure *strname* **to become available.**

Explanation: The queue server was unable to connect to its coupling facility structure because of an environmental error, such as the structure being unavailable, as described in a previous DFHXQ0403 message. The server is now waiting for this problem to be fixed, and will retry the connection request when it is notified via the ENF facility that the specific structure may now be available or that some change has occurred in the status of general coupling facility resources.

System action: The server waits to be notified of a relevant event.

User response: No action is required, but the waiting server can optionally be terminated using the MVS **CANCEL** command if it is no longer required.

Module: DFHXQEN

Destination: Console and SYSPRINT

DFHXQ0482I Retrying connection to structure *strname*.

Explanation: The queue server has been notified via ENF that its list structure may now be available or that a change has occurred in the status of some general coupling facility resources, so it is about to make another attempt to connect to the structure.

System action: The original IXLCONN request is retried.

User response: None.

Module: DFHXQEN

Destination: Console and SYSPRINT

DFHXQ0491 ENFREQ ACTION=*action* **failed, return code** *retcode*.

Explanation: An ENF request issued by the queue server gave an unexpected return code.

System action: If this occurs on the ENFREQ ACTION=LISTEN request and the server is subsequently unable to connect to the list structure, the server will be terminated instead of waiting for the structure to become available.

User response: See the documentation of the ENFREQ macro in *z/OS MVS Authorized Assembler Services Reference* for the explanation of the return and reason code.

Module: DFHXQEN

Destination: Console and SYSPRINT

DFHXQ0501 Insufficient storage, only *actual* of *requested* data buffers allocated.

Explanation: The queue server was unable to allocate the specified number of data buffers (of 32K bytes) during initialization because the relevant storage pool (AXMPGANY) was exhausted.

System action: The server is terminated.

User response: Decrease the BUFFERS initialization parameter to a value less than the number which were successfully allocated (to leave plenty of storage for request processing) and restart the server. Alternatively, increase the region size for the queue server to allow more buffers to be allocated.

Module: DFHXQBF

Destination: Console and SYSPRINT

DFHXQ0511I Queue index buffer pool statistics

Explanation: This message gives a summary of the usage statistics for the queue index buffer pool, which is used to read and write queue index entries and their associated data, and to save recently accessed index entries in storage to reduce coupling facility I/O. It is issued in response to a DISPLAY or PRINT command which includes the BUFSTATS parameter, and may also be produced on the SYSPRINT file during interval statistics if the statistics options include print file output.

The detailed message layout is as follows

```
9'.
Buffers: Total  Max used  Active  On LRU  Empty
             n         n       n       n      n
Requests: Gets  Puts  Keeps  Frees  Purges
             n     n      n      n       n
Results: Got hit Got free Got new Got LRU No buff
(Get)          n        n       n       n       n
Errors: Not freed  No purge Not owned
                n         n         n
Waits: Pool lock  Buf lock
               n         n
```

System action: Processing continues.

User response: The statistics are described in detail in the DFHXQS2D data area. The individual fields have the following meanings

- Buffers

  Total Number of buffers in the pool.

  Max used
  Highest number ever used (not affected by reset).

  Active Buffers currently in use.

  On LRU
  Buffers with valid contents on LRU chain to allow reuse.

  Empty Buffers previously used but now empty.

- Requests

  Gets Requests to get a buffer.

  Puts Requests to put back a buffer with valid contents.

  Keeps Requests to put back a buffer with modified contents. (This function is not currently used by the queue server).

  Frees Requests to put back a buffer as empty.

  Purges Requests to discard contents of a previously valid buffer.

- Results (Get)

  Got hit Request found a valid match on the LRU chain.

  Got free
  Request obtained an empty buffer.

  Got new
  Request obtained a buffer not previously used.

  Got LRU
  Request discarded and reused the oldest valid buffer.

  No buff
  Request failed to obtain a buffer.

- Errors

  Not freed
  Request tried to free a buffer which it did not own. (This can occur during error recovery).

  No purge
  A purge request did not find any matching buffer.

  Not owned
  A purge request hit a buffer owned by another task.

- Waits

  Pool lock
  Number of waits for the buffer pool header lock.

  Buf lock
  Number of waits because another request owned the buffer.

Module: DFHXQBF

Destination: Console and SYSPRINT

DFHXQ0601I Starting statistics collection for interval since *lasttime*.

Explanation: The queue server is about to collect interval, end of day or closedown statistics. This message identifies the start of the time interval to which the statistics apply, which is either the time that

the server was started up or the time of the last reset, which occurs whenever interval or end of day statistics are produced. The format of the timestamp is yyyy-mm-dd hh:mm:ss.

System action: The queue server proceeds with statistics collection.

User response: None.

Module: DFHXQST

Destination: SYSPRINT

DFHXQ0602I Statistics collection completed, reset performed.

Explanation: Queue server statistics have been collected and counters have been reset. This occurs for interval or end of day statistics.

System action: Processing continues.

User response: None.

Module: DFHXQST

Destination: SYSPRINT

DFHXQ0603I Statistics collection completed.

Explanation: Queue server statistics have been collected but counters have not been reset. This normally occurs at server closedown.

System action: Processing continues.

User response: None.

Module: DFHXQST

Destination: SYSPRINT

DFHXQ0604 Timer SET failed, return code *retcode*, **reason code** *rsncode*.

Explanation: An attempt by the queue server statistics subtask to set up a timer wait interval failed.

System action: The interval statistics function is terminated with message DFHXQ0606.

User response: Check the return code and reason code. A return code of 4 indicates an attempt to set up more than one concurrent timer interval, which indicates a logic error in the server. A return code of 8 indicates that the MVS STIMERM macro failed, in which case the reason code indicates the return code received from STIMERM SET.

Module: DFHXQST

Destination: Console and SYSPRINT

DFHXQ0605 Timer CANCEL failed, return code *retcode*, **reason code** *rsncode*.

Explanation: An attempt by the queue server statistics subtask to cancel a timer wait interval failed.

System action: The interval statistics function is terminated with message DFHXQ0606.

User response: Check the return code and reason code. A return code of 4 indicates an attempt to cancel a nonexistent timer interval, which indicates a logic error in the server. A return code of 8 indicates that the MVS STIMERM macro failed, in which case the reason code indicates the return code received from STIMERM CANCEL.

Module: DFHXQST

Destination: Console and SYSPRINT

DFHXQ0606 Statistics collection function is no longer available.

Explanation: The queue server statistics collection subtask was unable to continue processing and has terminated. The reason will have been indicated by an earlier message.

System action: The interval statistics subtask terminates and no further interval statistics or end of day statistics will be produced for this run of the server.

User response: See the earlier message indicating the reason for the termination of the subtask.

Module: DFHXQST

Destination: Console and SYSPRINT

DFHXQ0610I Statistics written to SMF, return code was *retcode*.

Explanation: Queue server statistics have been sent to SMF. The return code from the SMFEWTM macro is indicated in this message. A non-zero return code usually indicates that SMF recording was suppressed because of current SMF options or an installation exit.

System action: Processing continues.

User response: If the return code is non-zero but SMF statistics were expected to be successfully written, see the SMFEWTM macro in *MVS/ESA System Management Facilities (SMF)* (GC28-1457) for more information about return codes.

Module: DFHXQST

Destination: SYSPRINT

DFHXQ0701I Shared TS queue pool *poolname* **is to be unloaded.**

Explanation: The server program has been started with the UNLOAD option requesting that the queue pool is unloaded to a sequential data set.

System action: The server starts to process the unload request. In this case, the rest of cross-memory server initialization is bypassed as it will not be needed.

User response: None.

Module: DFHXQUL

Destination: Console and SYSPRINT

DFHXQ0702I Shared TS queue pool *poolname* **has been successfully unloaded.**

Explanation: The queue pool has been unloaded successfully.

System action: The server closes down normally.

User response: None.

Module: DFHXQUL

Destination: Console and SYSPRINT

DFHXQ0703I Number of unloaded queues: *queues***. Blocks written** *blocks***.**

Explanation: This message provides additional information about the results of the unload process, giving the number of queues which were unloaded and the number of 4K data blocks written to the unloaded queue pool data set.

System action: Server termination continues.

User response: None.

Module: DFHXQUL

Destination: Console and SYSPRINT

DFHXQ0704 DFHXQUL data set for unload could not be opened.

Explanation: The data set to contain the unloaded queue pool could not be opened.

System action: Unload processing is terminated and the server is closed down with message DFHXQ0706.

User response: Check that the DFHXQUL DD statement is present in the JCL for the unload job.

Module: DFHXQUL

Destination: Console and SYSPRINT

DFHXQ0705 Unload access to CF structure *strname* **failed with response** *response***.**

Explanation: The unload process failed because of a problem with coupling facility access.

System action: Unload processing is terminated and the server is closed down with message DFHXQ0706.

User response: If the response code is 8, this indicates that an unexpected IXLLIST error occurred, for which a previous error message will have been issued. Any other response code indicates an internal logic error.

Module: DFHXQUL

Destination: Console and SYSPRINT

DFHXQ0706 Unload for shared TS queue pool *poolname* **was unsuccessful.**

Explanation: The queue pool unload process failed. The reason will have been described in a previous message.

System action: The server is terminated.

User response: See the previous message giving the reason for the unload failure. Note that any unload data set produced in this case will be incomplete and will not be valid for reload purposes.

Module: DFHXQUL

Destination: Console and SYSPRINT

DFHXQ0801I Shared TS queue pool *poolname* **is to be reloaded.**

Explanation: The server program has been started with the RELOAD option requesting that the queue pool is to be reloaded from a sequential data set produced using the UNLOAD option.

System action: The server starts to process the reload request. In this case, the rest of cross-memory server initialization is bypassed as it will not be needed.

User response: None.

Module: DFHXQRL

Destination: Console and SYSPRINT

DFHXQ0802I Shared TS queue pool *poolname* **has been successfully reloaded.**

Explanation: The queue pool has been reloaded successfully.

System action: The server closes down normally.

User response: None.

Module: DFHXQRL

Destination: Console and SYSPRINT

DFHXQ0803I Queues reloaded: *queues*. **Queues bypassed:** *duplicates*. **Blocks read:** *blocks*.

Explanation: This message provides additional information about the results of the reload process. Queues on the unloaded data set are bypassed during reload processing if they already exist in the pool (for example as a result of a previous reload which could not be completed due to lack of space).

System action: Server termination processing continues.

User response: None.

Module: DFHXQRL

Destination: Console and SYSPRINT

DFHXQ0804 DFHXQRL data set for reload could not be opened.

Explanation: The data set containing the queue pool to be reloaded could not be opened.

System action: Reload processing is terminated and the server is closed down with message DFHXQ0808.

User response: Check that the DFHXQRL DD statement is present in the JCL for the reload job.

Module: DFHXQRL

Destination: Console and SYSPRINT

DFHXQ0805 Reload access to CF structure *strname* **failed with response** *response*.

Explanation: The reload process failed because of a problem with coupling facility access.

System action: Reload processing is terminated and the server is closed down with message DFHXQ0808.

User response: If the response code is 8, this indicates that an unexpected IXLLIST error occurred, for which a previous message DFHXQ0441 will have been issued. Any other response code indicates an internal logic error.

Module: DFHXQRL

Destination: Console and SYSPRINT

DFHXQ0806 Unexpected end of file encountered on reload data set.

Explanation: End of file was encountered on the unloaded data set before the logical end of the unloaded data was encountered.

System action: Reload processing is terminated and the server is closed down with message DFHXQ0808.

User response: This indicates that the unloaded data set is incomplete, perhaps because the unload process was abnormally terminated.

Module: DFHXQRL

Destination: Console and SYSPRINT

DFHXQ0807 Reload data set contains incorrect data near block *block*, **offset** *offset*.

Explanation: The reload process failed because the unloaded queue pool data set is not in the correct format.

System action: Reload processing is terminated and the server is closed down with message DFHXQ0808.

User response: Check that the correct data set is being used and that the unload process completed normally.

Module: DFHXQRL

Destination: Console and SYSPRINT

DFHXQ0808 Reload for shared TS queue pool *poolname* **was unsuccessful.**

Explanation: The queue pool reload process could not be completed. The reason will have been described in a previous message.

System action: The program is terminated.

User response: See the previous message giving the reason for the reload failure.

Module: DFHXQRL

Destination: Console and SYSPRINT

DFHXQ0809 Reload for CF structure *strname* **failed, structure is full.**

Explanation: Reload processing failed because there are insufficient free entries or elements to store the new data in the structure.

System action: Reload processing is terminated and the server is closed down with message DFHXQ0808.

User response: If the structure is not at its maximum size, use the MVS SETXCF FORCE to delete the structure, then change the reload parameters to specify a larger POOLSIZE parameter and rerun the reload job. The approximate amount of information which could not be reloaded can be estimated by comparing the numbers of blocks read and queues reloaded, as described by following message DFHXQ0803, with the corresponding numbers from message DFHXQ0703 in the unload job.

Module: DFHXQRL

Destination: Console and SYSPRINT

DFHXQ0810 Reload for CF structure *strname* **failed, all lists are in use.**

Explanation: Reload processing failed because all list headers defined in the structure are now in use.

System action: Reload processing is terminated and the server is closed down with message DFHXQ0808.

User response: Use the MVS SETXCF FORCE to delete the structure, then change the reload MAXQUEUES parameter to a large value and rerun the reload job.

Module: DFHXQRL

Destination: Console and SYSPRINT

DFHXQ0911I R12=*prv* **RQ Entry** *function* **Len=***len* **Item=***itemnum* **Q=***qname* **Task=***tasknum region*

Explanation: Request tracing is active and a request is being traced on entry to the request module DFHXQRQ.

System action: Processing continues.

User response: None.

Module: DFHXQRQ

Destination: SYSPRINT

DFHXQ0912I R12=*prv* **RQ Exit** *response* **Len=***len* **Item=***itemnum* **Q=***qname* **Task=***tasknum region*

Explanation: Request tracing is active and a request is being traced on exit from the request module DFHXQRQ.

System action: Processing continues.

User response: None.

Module: DFHXQRQ

Destination: SYSPRINT

DFHXQ0913I R12=*prv* **RQ Qname hex** *qname*

Explanation: Request tracing is active and the queue name to be traced contained unprintable symbols. This message shows the same queue name in hexadecimal format.

System action: Processing continues.

User response: None.

Module: DFHXQRQ

Destination: SYSPRINT

DFHXQ0921I R12=*prv* **IQ Entry INQUIRE** *browsetype* **Q=***qname* **Task=***tasknum region*

Explanation: Request tracing is active and a request is being traced on entry to the inquire module DFHXQIQ.

System action: Processing continues.

User response: None.

Module: DFHXQIQ

Destination: SYSPRINT

DFHXQ0922I R12=*prv* **IQ Exit** *response* **Q=***qname* **Task=***tasknum region*

Explanation: Request tracing is active and a request is being traced on exit from the inquire module DFHXQIQ.

System action: Processing continues.

User response: None.

Module: DFHXQIQ

Destination: SYSPRINT

DFHXQ0923I R12=*prv* **IQ Qname hex** *qname*

Explanation: Request tracing is active and the queue name to be traced contained unprintable symbols. This message shows the same queue name in hexadecimal format.

System action: Processing continues.

User response: None.

Module: DFHXQIQ

Destination: SYSPRINT

DFHXQ0941I R12=*prv* **CF Entry** *request optflgs modflgs* **BD=***bufdesc* **Item=***itemnum* **Q=***qname*

Explanation: CF access tracing is active and a request is being traced on entry to the CF request module DFHXQCF.

System action: Processing continues.

User response: None.

Module: DFHXQCF

Destination: SYSPRINT

DFHXQ0942I R12=*prv* **CF IXLLIST Cmd=***cmdcode* **Flg=***shlflgs* **List=***listnum* **Rsn=***reason*

Explanation: CF access tracing is active and the result from an IXLLIST macro is being traced.

System action: Processing continues.

User response: None.

Module: DFHXQCF

Destination: SYSPRINT

DFHXQ0943I R12=*prv* **CF Exit** *response* **Items=***items* **Item=***itemnum* **Q=***qname*

Explanation: CF access tracing is active and a request is being traced on exit from the CF request module DFHXQCF.

System action: Processing continues.

User response: None.

Module: DFHXQCF

Destination: SYSPRINT

DFHXQ0944I R12=*prv* **CF Qname hex** *qname*

Explanation: CF access tracing is active and the queue name to be traced contained unprintable symbols. This message shows the same queue name in hexadecimal format.

System action: Processing continues.

User response: None.

Module: DFHXQCF

Destination: SYSPRINT

DFHXQ0999I Trace *text*

Explanation: This message is used for non-specific debugging traces in multiple modules, for use by service personnel. It should not appear in normal execution unless debugging traces were deliberately activated.

System action: Processing continues.

User response: None.

Module: various

Destination: SYSPRINT

DFHXSnnnn messages

DFHXS0001 *applid* **An abend (code** *aaa/bbbb***) has occurred at offset** *X'offset'* **in module** *modname***.**

Explanation: An abnormal end (abend) or program check has occurred in module *modname*. This implies that there may be an error in the CICS code. Alternatively, unexpected data has been input, or storage has been overwritten.

The code *aaa/bbbb* is a 3-digit hexadecimal MVS code (if applicable), followed by a 4-digit alphanumeric CICS code. The MVS code is a system completion code (for example, 0C1 or D37). If an MVS code is not applicable, this field is filled with three hyphens. The CICS code is an abend code or a number referring to a CICS message (for example, AKEA is a CICS abend code; 1310 refers to message DFHTS1310).

System action: An exception entry is made in the trace table. A system dump is taken, unless you have specifically suppressed dumps in the dump table.

CICS continues unless you have specified in the dump table that CICS should terminate. If appropriate, an error return code is sent to the caller of this domain. In this case CICS could be terminated by the caller (for example, the domain manager, DFHDMDM). A message is issued to this effect.

Message DFHME0116 should be produced containing the symptom string for this problem.

User response: Notify the system programmer. If CICS is still running, it is necessary to decide whether to terminate CICS.

Look up the MVS code, if there is one, in the relevant MVS codes manual which is detailed in the book list in the front of this manual.

Next, look up the CICS alphanumeric code in this manual. This tells you, for example, whether the error was a program check, an abend, or a runaway, and may give you some guidance concerning user response.

If module *modname* is not crucial to the running of your CICS system, you may decide to continue to run and bring CICS down at a convenient time to resolve the problem.

If you cannot run without the full use of module *modname* you should bring CICS down in a controlled shutdown.

You need further assistance from IBM to resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHXSAD, DFHXSCL, DFHXSDM, DFHXSFL, DFHXSIS, DFHXSLU, DFHXSPW, DFHXSRC, DFHXSST, DFHXSXM

XMEOUT Parameters: *applid, aaa/bbbb, X'offset', modname*

Destination: Console

DFHXS0002 *applid* **A severe error (code** *X'code'***) has occurred in module** *modname***.**

Explanation: An error has been detected in module *modname*. The code X'*code*' is the exception trace point id which uniquely identifies what the error is and where the error was detected.

System action: An exception entry (code X'*code*' in the

message) is made in the trace table. A system dump is taken, unless you have specifically suppressed dumps in the dump table.

CICS continues unless you have specified in the dump table that CICS should terminate. If appropriate, an error return code is sent to the caller of this domain. In this case, CICS could be terminated by the caller (for example, the domain manager, DFHDMDM). A message is issued to this effect.

Message DFHME0116 should be produced containing the symptom string for this problem.

User response: This indicates a possible error in CICS code. The severity of its impact depends on the importance of the function being executed at the time of the error.

CICS may not have been terminated. If the message occurs once and module *modname* is not crucial to the running of your CICS system, you may decide to continue to run and bring CICS down at a convenient time to resolve the problem.

If the message recurs or if you cannot run without the full use of module *modname*, you should bring CICS down in a controlled shutdown.

You need further assistance from IBM to resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHXSAD, DFHXSCL, DFHXSDM, DFHXSFL, DFHXSIS, DFHXSLU, DFHXSPW, DFHXSRC, DFHXSST, DFHXSXM

XMEOUT Parameters: *applid, X'code',modname*

Destination: Console

DFHXS0004 *applid* **A possible loop has been detected at offset** *X'offset'* **in module** *modname***.**

Explanation: A CICS function is taking more time to process than CICS expects. A possible loop has been detected in module *modname* at offset X'*offset*'. This is the offset of the instruction which was executing at the time the error was detected.

System action: An exception entry is made in the trace table. A system dump is taken, unless you have specifically suppressed dumps in the dump table.

CICS continues unless you have specified in the dump table that CICS should terminate. If appropriate, an error return code is sent to the caller of this domain. In this case CICS could be terminated by the caller (for example, the domain manager, DFHDMDM). A message is issued to this effect.

Message DFHME0116 should be produced containing the symptom string for this problem.

User response: Notify the system programmer. If CICS has not been terminated, it is necessary to decide whether the problem is serious enough to bring CICS down.

Since some CICS functions can use a lot of processor time, this message may have been caused by a long-running function. So there may not be an error here. Usually, CICS purges a CICS function which exceeds the runaway task time interval which you have specified in the SIT (this is the ICVR which is measured in milliseconds). This means that module *modname* in the message is terminated and CICS continues.

But if you have declared ICVR=0 in the SIT and you consider that module *modname* has gone into a loop, you have to terminate CICS in order to terminate the runaway function.

If CICS has terminated module *modname*, and you consider that it was not a runaway, you should increase the ICVR time interval in the SIT. You have to bring CICS down at a suitable time to do this permanently. But you can change the ICVR time interval temporarily online, using the CEMT transaction.

If raising the ICVR time does not solve the problem, you will need further assistance from IBM. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHXSAD, DFHXSCL, DFHXSDM, DFHXSFL, DFHXSIS, DFHXSLU, DFHXSPW, DFHXSRC, DFHXSST, DFHXSXM

XMEOUT Parameters: *applid, X'offset', modname*

Destination: Console

DFHXS0006 *applid* **Insufficient storage to satisfy Getmain (code** *X'code'***) in module** *modname***. MVS code** *mvscode***.**

Explanation: An MVS GETMAIN was issued by module *modname*, but there was insufficient storage available to satisfy the request.

The code X'*code*' is the exception trace point ID which uniquely identifies the place where the error was detected.

The code *mvscode* is the MVS GETMAIN return code.

System action: An exception entry is made in the trace table (code X'*code*'). A system dump is taken, unless you have specifically suppressed dumps in the dump table.

CICS continues unless you have specified in the dump table that CICS should terminate.

If appropriate, an error return code is sent to the caller of this domain. In this case, CICS could be terminated by the caller (for example, the domain manager, DFHDMDM). A message is issued to this effect.

Message DFHME0116 should be produced containing the symptom string for this problem.

User response: If CICS has been terminated by another module, look out for the relevant termination messages (from, for example, the domain manager), and look up the user response suggested for these messages.

If CICS is still running, the problem may be a temporary one which rights itself if more storage becomes available. If you can manage without module *modname*, you may decide to continue and bring CICS down at a convenient time to resolve the problem. If the message recurs or if you cannot run without the full use of all CICS modules, you should bring CICS down in a controlled shutdown.

You can get diagnostic information about the MVS return code by consulting the relevant MVS codes manual which is listed in the book list at the front of this book.

Try decreasing the size limits of the DSAs or EDSAs. Or, try increasing the size of the whole region, if it is not already at maximum size. See the *CICS System Definition Guide* or the *CICS Performance Guide* for further information on CICS storage.

Module: DFHXSAD, DFHXSCL, DFHXSDM, DFHXSFL, DFHXSIS, DFHXSLU, DFHXSPW, DFHXSRC, DFHXSST, DFHXSXM

XMEOUT Parameters: *applid, X'code',modname, mvscode*

Destination: Console

DFHXS0200I *date time applid* **External security initialization has been successfully tracked.**

Explanation: An external security initialization performed on an active CICS system (via CEMT PERFORM SECURITY, or EXEC CICS SECURITY REBUILD) has been tracked to the XRF alternate system, and has completed successfully.

System action: None.

User response: None. You can suppress this message with the system initialization parameter, MSGLVL=0.

Module: DFHXSWM

XMEOUT Parameters: *date, time,applid*

Destination: Console

DFHXS0201I *date time applid* **External security initialization has been tracked, and has failed with return code** *X'xx'* **and reason code** *X'yy'***.**

Explanation: An external security initialization was performed on an active CICS system by use of a CEMT PERFORM SECURITY, or EXEC CICS SECURITY REBUILD.

The external security initialization has been tracked to the XRF alternate system, but has failed with return code *xx* and reason code *yy*.

xx and *yy* are the values placed in registers 15 and 0 by the external security manager.

System action: CICS provides a system dump of the XRF alternate system, and continues tracking security initializations.

Message DFHME0116 should be produced containing the symptom string for this problem.

User response: The security characteristics of the alternate system no longer match those of the active system. Either shut down the alternate system, perform a security rebuild at takeover, or accept the difference.

Use the return codes in the message, to determine why the security initialization failed.

If the codes are invalid, you will need further assistance from IBM. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHXSWM

XMEOUT Parameters: *date, time,applid, X'xx', X'yy'*

Destination: Console

DFHXS0202 *date time applid* **An attempt to track external security initialization has failed, tracking data could not be sent.**

Explanation: An external security initialization was performed on an active CICS system (via CEMT PERFORM SECURITY, or EXEC CICS SECURITY REBUILD).

It has not been tracked to an alternate system because the tracking data could not be sent.

System action: CICS provides a system dump of the active, and continues tracking security initializations.

Message DFHME0116 should be produced containing the symptom string for this problem.

User response: The security characteristics of the alternate will no longer match those of the active. Either shut down the alternate, perform a security rebuild at takeover, or accept the difference.

Module: DFHXSWM

XMEOUT Parameters: *date, time,applid*

Destination: CSCS

DFHXS0203 *date time applid* **An attempt to track external security initialization has failed, tracking data could not be received.**

Explanation: An external security initialization was performed on an active CICS system (via CEMT

PERFORM SECURITY, or EXEC CICS SECURITY REBUILD).

The external security initialization has not been tracked to an alternate system because the tracking data could not be received.

Message DFHME0116 should be produced containing the symptom string for this problem.

System action: CICS provides a system dump of the alternate system, and ceases to track the security initializations.

User response: The security characteristics of the alternate system no longer match those of the active system. Either shut down the alternate system, perform a security rebuild at takeover, or accept the difference.

Module: DFHXSWM

XMEOUT Parameters: *date, time,applid*

Destination: CSCS

DFHXS0204 *date time applid* **An attempt to track external security initialization has failed, tracking data was corrupted.**

Explanation: An external security initialization was performed on an active CICS system (via CEMT PERFORM SECURITY, or EXEC CICS SECURITY REBUILD).

It has been tracked to an alternate system but the tracking data was corrupted in transit.

System action: CICS provides a system dump of the alternate systems, and ceases to track the security initializations.

Message DFHME0116 should be produced containing the symptom string for this problem.

User response: The security characteristics of the alternate system no longer match those of the active system. Either shut down the alternate system, perform a security rebuild at takeover, or accept the difference.

Module: DFHXSWM

XMEOUT Parameters: *date, time,applid*

Destination: CSCS

DFHXS1100I *applid* **Security initialization has started.**

Explanation: This is an informational message indicating that security domain initialization has started.

System action: System initialization continues.

User response: None.

This message can be suppressed with the system initialization parameter MSGLVL=0.

Module: DFHXSDM

XMEOUT Parameter: *applid*

Destination: Console

DFHXS1101I *applid* **Security initialization has ended.**

Explanation: This is an informational message indicating that security domain initialization has completed successfully.

System action: System initialization continues.

User response: None.

This message can be suppressed with the system initialization parameter MSGLVL=0.

Module: DFHXSDM

XMEOUT Parameter: *applid*

Destination: Console

DFHXS1102I *applid* **Security is inactive.**

Explanation: This is an informational message indicating that security is not active.

System action: System initialization continues.

User response: None.

This message can be suppressed with the system initialization parameter MSGLVL=0.

Module: DFHXSDM

XMEOUT Parameter: *applid*

Destination: Console

DFHXS1103I *applid* **Default security for userid** *dfltuser* **has been established.**

Explanation: CICS has established a security environment for the default userid *dfltuser*.

System action: The authorities that are assigned to this userid by the external security manager will be used in CICS resource checks whenever no other userid has been established.

User response: None.

Module: DFHXSDM

XMEOUT Parameters: *applid, dfltuser*

Destination: Console Routecodes 2, 9 and 11

DFHXS1104 *applid* **Default security could not be established for userid** *dfltuser***. The security domain cannot continue, so CICS is terminated. SAF codes are (***X'safresp'***,***X'safreas'***). ESM codes are (***X'esmresp'***,***X'esmreas'***).**

Explanation: CICS could not establish a security environment for the default userid *dfltuser*. The security

domain cannot continue without a default user. The response and reason codes (*safresp* and *safreas*) returned by the system authorization facility (SAF), and the response and reason codes (*esmresp* and *esmreas*) returned by the external security manager (ESM) are those issued by the RACROUTE REQUEST=VERIFY macro.

System action: CICS terminates.

User response: Use the external security manager codes to determine why the RACROUTE REQUEST=VERIFY operation failed. Then, either correct the errors for the failing default user and restart CICS, or restart CICS with a different default userid.

Module: DFHXSDM

XMEOUT Parameters: *applid, dfltuser, X'safresp', X'safreas', X'esmresp',X'esmreas'*

Destination: Console Routecodes 2, 9, 10 and 11

DFHXS1105 *applid* **Resource profiles for class** *classname* **have been built.**

Explanation: The security resource profiles for the class *classname* have been successfully loaded into storage by the external security manager.

System action: The profiles are used in subsequent resource checks to determine users' authorizations to access resources in the named class.

User response: None.

Module: DFHXSRC

XMEOUT Parameters: *applid, classname*

Destination: Console Routecodes 2, 9, 10 and 11

DFHXS1106 *applid* **Resource profiles could not be built for class** *classname***. CICS is terminated. SAF codes are (***X'safresp'***,***X'safreas'***). ESM codes are (***X'esmresp'***,***X'esmreas'***).**

Explanation: The security resource profiles for the class *classname* could not be loaded into storage by the external security manager. The response and reason codes (*safresp* and *safreas*) returned by the system authorization facility (SAF), and the response and reason codes (*esmresp* and *esmreas*) returned by the external security manager (ESM) are those issued by the RACROUTE REQUEST=LIST macro.

The build of the profiles was requested by one of the following

- The initialization of the security domain
- The CEMT command PERFORM SECURITY REBUILD
- A user-supplied transaction invoking the EXEC CICS PERFORM SECURITY REBUILD command.

System action: CICS is unable to provide reliable resource security, so it terminates.

User response: Use the external security manager codes to determine why the RACROUTE REQUEST=LIST operation failed. Rectify the problem in the external security manager, then restart CICS.

Module: DFHXSRC

XMEOUT Parameters: *applid, classname, X'safresp', X'safreas', X'esmresp', X'esmreas'*

Destination: Console Routecodes 2, 9, 10 and 11

DFHXS1107 *applid* **Partner-LU profiles for class APPCLU have been built.**

Explanation: The partner-LU profiles for the class APPCLU have been successfully loaded into storage by the external security manager.

System action: The profiles are used in subsequent bind authorization checks for LU6.2 sessions whose CONNECTION definition specifies BINDSECURITY(YES).

User response: None.

Module: DFHXSRC

XMEOUT Parameter: *applid*

Destination: Console Routecodes 2, 9, 10 and 11

DFHXS1108 *applid* **Partner-LU profiles could not be built for class APPCLU. SAF codes are (***X'safresp'***,***X'safreas'***). ESM codes are (***X'esmresp'***,***X'esmreas'***).**

Explanation: The partner-LU profiles for the class APPCLU could not be loaded into storage by the external security manager. CICS therefore has no APPCLU security profiles. The response and reason codes (*safresp* and *safreas*) returned by the system authorization facility (SAF), and the response and reason codes (*esmresp* and *esmreas*) returned by the external security manager (ESM) are those issued by the RACROUTE REQUEST=LIST macro.

The build of the profiles was requested by one of the following

- The initialization of z/OS Communications Server support in terminal control
- The CEMT command SET VTAM OPEN
- The CEMT command PERFORM SECURITY REBUILD
- A user-supplied transaction invoking the EXEC CICS SET VTAM OPEN command.
- A user-supplied transaction invoking the EXEC CICS PERFORM SECURITY REBUILD command.

System action: If the failure occurs during CICS initialization or PERFORM SECURITY REBUILD, CICS terminates. If the failure occurs during SET VTAM

OPEN, the z/OS Communications Server ACB is closed and CICS continues.

User response: Use the external security manager codes to determine why the RACROUTE REQUEST=LIST operation failed. Rectify the problem in the external security manager, then restart CICS.

Module: DFHXSIS, DFHXSRC

XMEOUT Parameters: *applid, X'safresp', X'safreas', X'esmresp', X'esmreas'*

Destination: Console Routecodes 2, 9, 10 and 11

DFHXS1109 *applid* **APPC PROFILE** *profile* **COULD NOT BE AUDITED. SAF CODES ARE (***X'safresp'***,***X'safreas'***). ESM CODES ARE (***X'esmresp'***,***X'esmreas'***).**

Explanation: An audit request for a partner-LU verification check has failed for profile *profile*.

During the start-up of an APPC session, each partner can validate the other. During this validation process, the system

- Retrieves the relevant APPCLU profile from the external security manager
- Checks that the session key is still usable
- Requests the external security manager to write audit records concerning this profile and the validation to the system management facility (SMF).

The following events are audited
- Whether the session partner was correctly validated
- Whether the session partner failed validation
- Whether the session key will expire in less than six days
- Whether the retrieved profile is "locked"
- Whether the session key is null, or all zero
- Whether the session key has expired.

The response and reason codes (*safresp* and *safreas*) returned by the system authorization facility (SAF), and the response and reason codes (*esmresp* and *esmreas*) returned by the external security manager (ESM) are those issued by the RACROUTE REQUEST=AUDIT macro.

System action: The CICS system is not affected by this event, and CICS continues.

User response: Use the external security manager codes to determine why the RACROUTE REQUEST=AUDIT operation failed. Correct the problem in the external security manager, then perform a security rebuild, if appropriate.

Module: DFHXSSB

Destination: Console Routecode 9

DFHXS1110 *applid* **Security is requested, but the external security manager is inactive.**

Explanation: Security was requested for this region, but the external security manager (ESM) was found to be inactive. The SEC system initialization parameter was specified as YES or left as its default value. CICS cannot initialize its security manager unless the ESM is active.

System action: CICS terminates.

User response: If you have an ESM installed on your system, ensure that it is active before attempting to start CICS. Otherwise, restart CICS without security by specifying SEC=NO as a system initialization parameter. Note that the SEC parameter cannot be entered as a console override.

Module: DFHXSIS

XMEOUT Parameter: *applid*

Destination: Console Routecodes 1, 9, 10 and 11

DFHXS1111 *date time applid tranid* **Security violation by user** *userid{ at netname | at console }portname* **for resource** *resource* **in class** *classname***. SAF codes are (***X'safresp'***,***X'safreas'***). ESM codes are (***X'esmresp'***,***X'esmreas'***).**

Explanation: CICS has detected a security violation by user *userid* while performing an authority check for resource *resource* in resource class *classname*.

If the userid causing the violation is signed on at a z/OS Communications Server terminal, the phrase "at netname *portname*" reports the netname at which the violation occurred. If the userid causing the violation is signed on at a console, the phrase "at console *portname*" reports the console name at which the violation occurred. If the userid causing the violation is not signed on or this is a non terminal task, the entry port does not appear in this message as it is not available.

The response and reason codes (*safresp* and *safreas*) returned by the system authorization facility (SAF), and the response and reason codes (*esmresp* and *esmreas*) returned by the external security manager (ESM) are those issued by the RACROUTE REQUEST=FASTAUTH or RACROUTE REQUEST=AUTH macros. These return codes are described in the *z/OS MVS Programming: Assembler Services Guide* and in *z/OS Security Server RACROUTE Macro Reference*.

CICS can also issue this message when you use the EXEC CICS QUERY SECURITY command with the LOGMESSAGE(LOG) option.

System action: CICS abnormally terminates the task requesting the invalid access except under one of the following conditions

- The command is issued within the scope of an EXEC CICS HANDLE NOTAUTH command.
- The command is issued as a result of an EXEC CICS QUERY SECURITY command.

User response: Note the security violation.

Module: DFHXSRC

XMEOUT Parameters: *date, time, applid, tranid, userid, {1= at netname , 2= at console }, portname, resource, classname, X'safresp', X'safreas', X'esmresp', X'esmreas'*

Destination: CSCS

DFHXS1112 *applid* **The CICS region userid and groupid could not be determined. SAF codes are (***X'safresp'***,***X'safreas'***). ESM codes are (***X'esmresp'***,***X'esmreas'***).**

Explanation: CICS could not determine the userid and groupid for this CICS region.

The response and reason codes (*safresp* and *safreas*) returned by the system authorization facility (SAF), and the response and reason codes (*esmresp* and *esmreas*) returned by the external security manager (ESM) are those issued by the RACROUTE REQUEST=EXTRACT macro.

System action: An exception entry is made in the trace table. A system dump is taken, unless you have specifically suppressed dumps in the dump table.

User response: Use the external security manager codes to determine why the RACROUTE REQUEST=EXTRACT operation failed. Then, either correct the errors for the failing region userid and groupid, and restart CICS, or restart CICS with a different userid and groupid.

Module: DFHXSIS

XMEOUT Parameters: *applid, X'safresp', X'safreas', X'esmresp', X'esmreas'*

Destination: Console Routecodes 2, 9, 10 and 11

DFHXS1113 *applid* **The region userid cannot access system transaction** *tranid***. CICS will terminate. SAF codes are (***X'safresp'***,***X'safreas'***). ESM codes are (***X'esmresp'***,***X'esmreas'***).**

Explanation: The region userid for this CICS system is not authorized to attach the system transaction *tranid*. It is a CICS requirement that the region userid must be able to access this transaction.

The response and reason codes (*safresp* and *safreas*) returned by the system authorization facility (SAF), and the response and reason codes (*esmresp* and *esmreas*) returned by the external security manager (ESM) are those issued by the RACROUTE REQUEST=FASTAUTH or AUTH macro.

System action: CICS terminates.

User response: Authorize the CICS region userid to access all the required CICS system transactions, or specify a different region userid that does have the required authority. (The required transactions are documented as the 'Category 1' transactions in the *CICS RACF Security Guide*. To authorize the region userid to use these transactions, you should execute the sample clist DFH$CAT1, as described in the *CICS Transaction Server for z/OS Installation Guide*.)

Then restart CICS.

Module: DFHXSRC

XMEOUT Parameters: *applid, tranid,X'safresp', X'safreas', X'esmresp',X'esmreas'*

Destination: Console Routecodes 2, 9, 10 and 11

DFHXS1115 *applid* **USER** *userid* **IS NOT AUTHORIZED TO INVOKE** *{HOME | REMOTE}* **METHOD** *method-name* **FROM BEAN** *bean-name* **{FOR APPLICATION** *application-name***} IN CORBASERVER** *cs-name***. USER HAS NO ACCESS TO ANY OF THESE ROLES {FOR METHOD(*)}:** *role-name-list*

Explanation: The user *userid* is not authorized to invoke the method named *method-name* within the Enterprise Java Bean named *bean_name*, which is deployed in the Corbaserver named *cs-name*. If the optional text "FOR APPLICATION *application-name*" appears in the message, the JAR containing the bean is identified in the deployment descriptor by a `<display-name>` tag containing *application-name*.

The user is not authorized to invoke the method because *userid* does not have READ access to at least one of the roles specified in the `<method-permission>` section of the deployment descriptor. These roles are listed in *role-name-list* (which may be empty).

If the optional text "FOR METHOD(*)" appears in the message, the roles in *role-name-list* apply to the generic method (*), because there are no specific role definitions for *method-name* in the deployment descriptor.

System action: CICS does not execute the specified method, and writes a type 80 SMF record to record the violation.

User response: Determine whether the user *userid* should be authorized to execute the specified method, and if so, grant the userid READ access to one of the roles named in *role-name-list*, or add new roles to the deployment descriptor and re-install the DJAR.

Module: DFHXSSF

Destination: Console Routecode 9

DFHXS1116 *date time applid tranid* **Security violation by user** *userid{ at IP address }location* **for HFS file** *hfsfile***. USS codes are (***X'ussvalue'***,***X'ussreturn'***,***X'ussreason'***).**

Explanation: CICS has detected a security violation by user *userid* while performing an authority check for the UNIX System Services HFS file *filename*.

If the userid causing the violation is using CICS Web support, the phrase "at IP address *location*" may be present. Otherwise, the location does not appear in this message as it is not available.

The response codes *ussvalue*, *ussreturn*, and *ussreason* are those returned by the UNIX System Services ***access*** function (BPX1ACC), and are described in *z/OS UNIX System Services Messages and Codes* (SA22-7807).

System action: If the HFS file is being accessed to deliver static web content for the CICS Web support, CICS returns an HTTP 403 (Not Authorized) response to the web client. Otherwise, CICS abnormally terminates the task requesting the invalid access unless it is protected by an EXEC CICS HANDLE NOTAUTH command.

User response: Note the security violation.

Module: XMEOUT Parameters: *date, time,applid, tranid, userid, {3= at IP address }, location, hfsfile, X'ussvalue', X'ussreturn', X'ussreason'*

Destination: CSCS

DFHXS111I *date time applid* **User** *userid* **is not authorized to invoke method** *methodName(signature)* **from bean** *beanName* **in CORBAServer** *corbaServer***.**

Explanation: The user is not authorized to invoke the named method. The *userid* is not authorized to use any of the roles specified in the `<method-permission>` section of the deployment descriptor for this method.

System action: CICS does not execute the specified method. CICS also issues message DFHXS1115 to the system console, which contains further information about the roles to which access is required.

User response: Determine whether the user *userid* should be authorized to execute the specified method, and if so, grant the user appropriate permission.

Module: DFHXSEJ

XMEOUT Parameters: *date, time, applid, userid, methodName(signature), beanName, corbaServer*

DFHXS1201 *date time applid* **The password supplied in the verification request for userid** *userid* **was invalid. This occurred in transaction** *tranid* **when userid** *userid* **was signed on at netname** *netname***.**

Explanation: An invalid password was supplied for user verification.

System action: The external security manager also issues a message on the MVS/ESA security console.

CICS continues. No dump is taken.

User response: Supply the correct password, or contact your security administrator for assistance. If you continue to supply incorrect passwords, the userid may be revoked by the external security manager. A revoked userid can only be reinstated by a security administrator.

Module: DFHXSPW

XMEOUT Parameters: *date, time,applid, userid, tranid, userid, netname*

Destination: CSCS

DFHXS1202 *date time applid* **The password supplied in the verification request for userid** *userid* **has expired. This occurred in transaction** *tranid* **when userid** *userid* **was signed on at netname** *netname***.**

Explanation: An expired password was supplied for user verification.

System action: CICS continues. No dump is taken.

User response: Change the password using the CICS signon process, the EXEC CICS CHANGE PASSWORD API, the EXEC CICS CHANGE PHRASE API, or any other method available to you. Alternatively, contact your security administrator for assistance.

Module: DFHXSPW

XMEOUT Parameters: *date, time,applid, userid, tranid, userid, netname*

Destination: CSCS

DFHXS1203 *date time applid* **The userid supplied in the verification request for userid** *userid* **is revoked. This occurred in transaction** *tranid* **when userid** *userid* **was signed on at netname** *netname***.**

Explanation: A revoked userid was supplied for user verification.

System action: CICS continues. No dump is taken.

User response: Contact your security administrator for assistance.

Module: DFHXSPW

XMEOUT Parameters: *date, time,applid, userid, tranid, userid, netname*

Destination: CSCS

DFHXS1205 *date time applid* **The userid** *userid* **supplied in a verification request is not defined in the ESM. This occurred in transaction** *tranid* **at netname** *netname***.**

Explanation: An undefined userid was supplied for user verification.

System action: CICS continues. No dump is taken.

User response: Contact your security administrator for assistance.

Module: DFHXSPW

XMEOUT Parameters: *date, time,applid, userid, tranid, netname*

Destination: CSCS

DFHXS1211 *date time applid* **The password supplied in a change password request for userid** *userid* **was invalid. This occurred in transaction** *tranid* **when userid** *userid* **was signed on at netname** *netname***.**

Explanation: An invalid password was supplied for change password processing.

System action: The external security manager also issues a message on the MVS security console.

CICS continues. No dump is taken.

User response: Supply the correct password or contact your security administrator for assistance. If you continue to supply incorrect passwords, the userid may be revoked by the external security manager. A revoked userid can only be reinstated by a security administrator.

Module: DFHXSPW

XMEOUT Parameters: *date, time,applid, userid, tranid, userid, netname*

Destination: CSCS

DFHXS1213 *date time applid* **The userid supplied in a change password request for userid** *userid* **is revoked. This occurred in transaction** *tranid* **when userid** *userid* **was signed on at netname** *netname***.**

Explanation: A revoked userid was supplied on a password change request

System action: CICS continues. No dump is taken.

User response: You should have the userid reinstated before it can be used. Contact your security administrator for assistance.

Module: DFHXSPW

XMEOUT Parameters: *date, time,applid, userid, tranid, userid, netname*

Destination: CSCS

DFHXS1214 *date time applid* **The new password supplied in a change password request for userid** *userid* **was not accepted. This occurred in transaction** *tranid* **when userid** *userid* **was signed on at netname** *netname***.**

Explanation: An invalid new password was supplied on a password change request.

System action: CICS continues. No dump is taken.

User response: Select a suitable new password and try again. If necessary, contact your security administrator for assistance.

Module: DFHXSPW

XMEOUT Parameters: *date, time,applid, userid, tranid, userid, netname*

Destination: CSCS

DFHXS1215 *date time applid* **The userid** *userid* **supplied in a change password request is not defined in the ESM. This occurred in transaction** *tranid* **at netname** *netname***.**

Explanation: An undefined userid was supplied on a password change request

System action: CICS continues. No dump is taken.

User response: Contact your security administrator for assistance.

Module: DFHXSPW

XMEOUT Parameters: *date, time,applid, userid, tranid, netname*

Destination: CSCS

DFHXS1216 *date time applid* **The userid** *userid* **supplied in a change password request has a revoked connection to the default group in the ESM. This occurred in transaction** *tranid* **at netname** *netname***.**

Explanation: The userid supplied on a password change request is revoked in the ESM connection to the default group.

System action: CICS continues. No dump is taken.

User response: Contact your security administrator for assistance.

Module: DFHXSPW

XMEOUT Parameters: *date, time,applid, userid, tranid, netname*

Destination: CSCS

DFHXS1217 *date time applid* **A client certificate has been successfully registered for user** *userid***.**

Explanation: A client using the client authentication protocol of Secure Sockets Layer has presented a valid X.509 client certificate and a valid userid and password. CICS has successfully registered the certificate with the specified userid *userid*..

System action: The certificate is permanently associated with userid *userid* in the external security manager's database.

User response: Whenever the client certificate is used again, userid *userid* will be assigned to it without further prompting for a userid and password.

Module: DFHXSPW

XMEOUT Parameters: *date, time,applid, userid*

Destination: CSCS

DFHXS1218 *applid* **The CICS region userid** *userid* **is not authorized to access key ring** *keyring***.**

Explanation: The KEYRING system initialization parameter has been used to specify a key ring named *keyring*, but the CICS region userid (*userid*) does not have sufficient authority to access it.

System action: If the PARMERR=ABEND system initialization parameter is specified, CICS initialization terminates.

If the PARMERR=IGNORE system initialization parameter is specified, CICS initialization continues without a key ring. CICS does not initialize support for secure sockets layer, is not able to install TCPIPSERVICEs that specify SSL(YES) or SSL(CLIENTAUTH), or CORBASERVERs that specify CERTIFICATE.

If the PARMERR=INTERACT system initialization parameter is specified, you are prompted to enter a new key ring name, but you can only reply with a blank name, which causes CICS to continue initialization without a key ring.

User response: If CICS is to use the secure sockets layer, the CICS region userid must be given READ access to the IRR.DIGTCERT.LIST and IRR.DIGTCERT.LISTRING resources in the FACILITY class. For further information, see the *CICS RACF Security Guide*.

Module: DFHXSIS

XMEOUT Parameters: *applid, userid,keyring*

Destination: Console Routecodes 2, 9, 10 and 11

DFHZCnnnn messages

DFHZC0001 *applid* **An abend (code** *aaa/bbbb***) has occurred at offset** *X'offset'* **in module** *modname***.**

Explanation: An abnormal end (abend) or program check has occurred in module *modname*. This implies that there may be an error in the CICS code. Alternatively, unexpected data has been input, or storage has been overwritten.

The code *aaa/bbbb* is a 3-digit hexadecimal MVS code (if applicable), followed by a 4-digit alphanumeric CICS code. The MVS code is a system completion code (for example, 0C1 or D37). If an MVS code is not applicable, this field is filled with three hyphens. The CICS code is an abend code or a number referring to a CICS message (for example, AKEA is a CICS abend code; 1310 refers to message DFHTS1310).

System action: An exception entry is made in the trace table. A system dump is taken, unless you have specifically suppressed dumps in the dump table.

CICS continues unless you have specified in the dump table that CICS should terminate. If appropriate, an error return code is sent to the caller of this domain. In this case CICS could be terminated by the caller (for example, the domain manager, DFHDMDM). A message is issued to this effect.

Message DFHME0116 should be produced containing the symptom string for this problem.

User response: Notify the system programmer. If CICS is still running, it is necessary to decide whether to terminate CICS.

Look up the MVS code, if there is one, in the *OS/390 MVS System Codes* manual.

Next, look up the CICS abend code. This tells you, for example, whether the error was a program check, an abend, or a runaway, and may give you some guidance concerning user response.

If module *modname* is not crucial to the running of your CICS system, you may decide to continue to run and bring CICS down at a convenient time to resolve the problem.

If you cannot run without the full use of module *modname* you should bring CICS down in a controlled shutdown.

For further information about *code*, see the *CICS Problem Determination Guide*.

You need further assistance from IBM to resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHZGBM, DFHZGCA, DFHZGCC, DFHZGCN, DFHZGDA, DFHZGPC, DFHZGRP, DFHZGSL, DFHZGUB

XMEOUT Parameters: *applid, aaa/bbbb, X'offset', modname*

Destination: Console

DFHZC0002 *applid* **A severe error (code** *X'code'***) has occurred in module** *modname***.**

Explanation: An error has been detected in module *modname*. The code X'*code* is the exception trace point ID which uniquely identifies what the error is and where the error was detected.

System action: An exception entry (code X'*code* in the message) is made in the trace table. A system dump is taken, unless you have specifically suppressed dumps in the dump table.

CICS continues unless you have specified in the dump table that CICS should terminate. If appropriate, an error return code is sent to the caller of this domain. In this case, CICS could be terminated by the caller (for example, the domain manager, DFHDMDM). A message is issued to this effect.

Message DFHME0116 should be produced containing the symptom string for this problem.

User response: This indicates a possible error in CICS code. The severity of its impact depends on the importance of the function being executed at the time of the error.

CICS may not have been terminated. If the message occurs once and module *modname* is not crucial to the running of your CICS system, you may decide to continue to run and bring CICS down at a convenient time to resolve the problem.

If the message recurs or if you cannot run without the full use of module *modname*, you should bring CICS down in a controlled shutdown.

You need further assistance from IBM to resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHZGCA, DFHZGCC, DFHZGCN, DFHZGDA, DFHZGPC, DFHZGRP, DFHZGSL, DFHZGUB

XMEOUT Parameters: *applid, X'code',modname*

Destination: Console

DFHZC0003 *applid* **Insufficient storage (code** *X'code'***) in module** *modname***.**

Explanation: A CICS GETMAIN was issued by module *modname*, but there was insufficient storage available to satisfy the request.

The code X'*code* is the exception trace point ID which uniquely identifies the place where the error was detected.

System action: An exception entry is made in the trace table (code X'*code* in the message). A system dump is taken, unless you have specifically suppressed dumps in the dump table. CICS will continue unless you have specified in the dump table that CICS should terminate.

If appropriate, an error return code is sent to the caller of this domain. In this case, CICS could be terminated by the caller A message will be issued to this effect. Message DFHME0116 should be produced containing the symptom string for this problem.

User response: Inform the system programmer.

Try increasing the size of the DSA or EDSA. See the *CICS System Definition Guide* or the *CICS Performance Guide* for more information on CICS storage.

Module: DFHTCRP, DFHZGRP

XMEOUT Parameters: *applid, X'code',modname*

Destination: Console

DFHZC0004 *applid* **A possible loop has been detected at offset** *X'offset'* **in module** *modname***.**

Explanation: A CICS function is taking more time to process than CICS expects. A possible loop has been detected in module *modname* at offset X'*offset*. This is the offset of the instruction which was executing at the time the error was detected.

System action: An exception entry is made in the trace table. A system dump is taken, unless you have specifically suppressed dumps in the dump table.

CICS continues unless you have specified in the dump table that CICS should terminate. If appropriate, an error return code is sent to the caller of this domain. In this case CICS could be terminated by the caller (for example, the domain manager, DFHDMDM). A message is issued to this effect.

Message DFHME0116 should be produced containing the symptom string for this problem.

User response: Notify the system programmer. If CICS has not been terminated, it is necessary to decide whether the problem is serious enough to bring CICS down.

Since some CICS functions can use a lot of processor time, this message may have been caused by a long-running function. So there may not be an error here. Usually, CICS purges a CICS function which exceeds the runaway task time interval which you have specified in the SIT (this is the ICVR which is measured in milliseconds). This means that module *modname* in the message is terminated and CICS continues.

But if you have declared ICVR=0 in the SIT and you consider that module *modname* has gone into a loop, you have to terminate CICS in order to terminate the runaway function.

If CICS has terminated module *modname*, and you

consider that it was not a runaway, you should increase the ICVR time interval in the SIT. You have to bring CICS down at a suitable time to do this permanently. But you can change the ICVR time interval temporarily online, using the CEMT transaction.

If raising the ICVR time does not solve the problem, you will need further assistance from IBM. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: XMEOUT Parameters: *applid, X'offset', modname*

Destination: Console

DFHZC0101I *date time applid* **A predatory takeover has forced z/OS Communications Server to allow another application to open the ACB which CICS was using.**

Explanation: A predatory takeover is occurring. This means that a job is initializing which has the same applid as the CICS system. This initiates a takeover of the network. As a normal part of this process, z/OS Communications Server drives the TPEND exit.

System action: All requests on z/OS Communications Server sessions are abnormally terminated and the sessions closed. The z/OS Communications Server ACB is then opened by the application which is using the same APPLID as the CICS region. The new system recovers any persisting sessions.

User response: If this takeover of the network was unintentional, you can prevent it happening in future by using RACF to protect the APPLID. Refer to the z/OS Communications Server application security section in the *VTAM Network Implementation Guide*, SC31-6434 for details of how to do this.

Module: DFHZNCA

XMEOUT Parameters: *date, time,applid*

Destination: Console and Transient Data Queue CSNE

DFHZC0110 *date time applid* **The LU6.2 NIB and the TCTTE/BIND data for session** *sessid* **did not match during a persistent sessions restart. Reason code** *X'n'***.**

Explanation: A node initialization block (NIB) has been passed to CICS by z/OS Communications Server during a persistent sessions restart. An attempt was made by CICS to match the NIB to a session TCTTE. The reason code explains the cause of the mismatch.

Reason	Explanation
1	Single/parallel session indication did not match.
2	LU type did not match.
3	LU type and single/parallel session did not match.

System action: The attempt to match a persisting session with a TCTTE has failed. The session is unbound. CICS ignores this session and continues with the next session if there is one.

User response: The production of this message means that there is no suitable global catalog record to match the NIB which z/OS Communications Server has passed in. This implies that the wrong global catalog is being used for this initialization of CICS, or that the catalog records are corrupted. Ensure that the global catalog being used is correct.

Module: DFHZGPC

XMEOUT Parameters: *date, time,applid, sessid, X'n'*

Destination: CSNE

DFHZC0111 *date time applid* **No session TCTTE is available to match sysid** *sysid* **for modename** *modename* **because z/OS Communications Server has returned more NIBs than the CNOS session limit values require.**

Explanation: During persistent sessions restart z/OS Communications Server has returned more node initialization blocks (NIBs) than the current CNOS session limit values require. This is probably because a CNOS from a high session limit to a lower session limit was in progress when CICS failed.

System action: The process NIB function is terminated. The session is unbound. CICS ignores this session and continues with the next session if there is one.

This situation has no effect on the restored CICS. The last catalogued CNOS values are restored.

User response: None.

Module: DFHZGPC

XMEOUT Parameters: *date, time,applid, sysid, modename*

Destination: CSNE

DFHZC0112 *date time applid* **No TCTME was found for sysid** *sysid* **modename** *modename* **during a persistent sessions restart.**

Explanation: An error has occurred during persistent sessions restart. z/OS Communications Server passed a NIB to CICS containing the named modename, but CICS was unable to locate the corresponding TCTME.

System action: The attempt to match the NIB to a TCTTE is terminated. The session is unbound.

A system dump is produced.

The CNOS values not related to this modegroup are

restored, but the named modegroup cannot be recovered.

User response: You need further assistance from IBM to resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHZGPC

XMEOUT Parameters: *date, time,applid, sysid, modename*

Destination: CSNE

DFHZC0120I *applid* **VTAM sessions persisted for a cold or initial start. Sessions terminated. Inquire issued** *icount***, sessions persisting** *spcount***, sessions terminated** *stcount***.**

Explanation: CICS is initializing with a cold or initial start, but some z/OS Communications Server sessions have persisted from a previous CICS with a nonzero PSDI value.

CICS has attempted to terminate all persisting sessions. The message inserts are as follows

- *icount* is the number of z/OS Communications Server INQUIRE OPTCD=PERSESS commands issued.
- *spcount* is the number of z/OS Communications Server sessions that persisted.
- *stcount* is the number of sessions that CICS has terminated with a CLSDST or TERMSESS macro. This should be equal to *spcount*. If it is not, persistent session recovery probably failed. Earlier messages explain why.

  If there are no earlier messages, it is possible that the count obtained from the z/OS Communications Server INQUIRE counts macro, indicating the number of active sessions, was not equal to the number of sessions that z/OS Communications Server held persisting. This is not a problem.

System action: CICS continues.

User response: None.

Module: DFHZGRP

XMEOUT Parameters: *applid, icount,spcount, stcount*

Destination: Console

DFHZC0121I *applid* **VTAM sessions persisted for a WARM start. Sessions terminated. Inquires issued** *icount***, sessions persisting** *spcount***, sessions terminated** *stcount***.**

Explanation: CICS is initializing with a WARM start, but some z/OS Communications Server sessions unexpectedly persisted from a previous CICS with a nonzero PSDI value.

CICS has attempted to terminate all persisting sessions. The message inserts are as follows

- *icount* is the number of z/OS Communications Server INQUIRE OPTCD=PERSESS commands issued.
- *spcount* is the number of z/OS Communications Server sessions that persisted.
- *stcount* is the number of sessions that CICS has terminated with a CLSDST or TERMSESS macro. This should be equal to *spcount*. If it is not, persistent session recovery probably failed. Earlier messages explain why.

  If there are no earlier messages, it is possible that the count obtained from the z/OS Communications Server INQUIRE counts macro, indicating the number of active sessions, was not equal to the number of sessions that z/OS Communications Server held persisting. This is not a problem.

System action: CICS continues.

User response: Examine the JOBLOG from the previous run to determine why sessions persisted despite a WARM shut down.

Module: DFHZGRP

XMEOUT Parameters: *applid, icount,spcount, stcount*

Destination: Console

DFHZC0122I *applid* **VTAM sessions persisted for an EMERGENCY, XRF=YES start. Sessions terminated. Inquires issued** *icount***, sessions persisting** *spcount***, sessions terminated** *stcount***.**

Explanation: CICS is initializing with an EMERGENCY start, but XRF = YES has been specified and some z/OS Communications Server sessions persisted unexpectedly from a previous CICS with a nonzero PSDI value.

CICS has attempted to close all persisting sessions. The message inserts are as follows

- *icount* is the number of z/OS Communications Server INQUIRE OPTCD=PERSESS commands issued.
- *spcount* is the number of z/OS Communications Server sessions that persisted.
- *stcount* is the number of sessions that CICS has terminated with a CLSDST or TERMSESS macro. This should be equal to *spcount*. If it is not, persistent session recovery probably failed. Earlier messages explain why.

  If there are no earlier messages, it is possible that the count obtained from the z/OS Communications Server INQUIRE counts macro, indicating the number of active sessions, was not equal to the number of sessions that z/OS Communications Server held persisting. This is not a problem.

System action: CICS continues.

User response: You should not mix XRF and persistent sessions. If you wish to use XRF, do a cold or initial start.

Module: DFHZGRP

XMEOUT Parameters: *applid, icount,spcount, stcount*

Destination: Console

DFHZC0123I *applid* **VTAM sessions persisted when OPEN VTAM ACB issued. Sessions terminated. Inquires issued** *icount*, **sessions persisting** *spcount*, **sessions terminated** *stcount*.

Explanation: The z/OS Communications Server ACB has been opened while CICS is running, however some z/OS Communications Server sessions persisted either from a previous CICS with a nonzero PSDI value, or when the z/OS Communications Server ACB was closed.

Persisting sessions have been terminated. The message inserts are as follows

- *icount* is the number of z/OS Communications Server INQUIRE OPTCD=PERSESS commands issued.
- *spcount* is the number of z/OS Communications Server sessions that persisted.
- *stcount* is the number of sessions that CICS terminated with a CLSDST or TERMSESS macro. This should be equal to *spcount*. If it is not, persistent session recovery probably failed. Earlier messages explain the reason.

  If there are no earlier messages, it is possible that the count obtained from the z/OS Communications Server INQUIRE counts macro, indicating the number of active sessions, was not equal to the number of sessions that z/OS Communications Server held persisting. This is not a problem.

System action: CICS continues.

User response: None.

Module: DFHZGRP

XMEOUT Parameters: *applid, icount,spcount, stcount*

Destination: Console

DFHZC0124I *applid* **VTAM sessions persisted for an EMERGENCY start. Inquires issued** *icount*, **sessions persisting** *spcount*, **sessions terminated** *stcount*, **sessions OPNDSTed** *socount*, **sessions in error** *secount*.

Explanation: CICS was initializing with an EMERGENCY start and some z/OS Communications Server sessions persisted from a previous CICS with a nonzero PSDI value.

Each of the persisting sessions has been restored or terminated. The message inserts are as follows

- *icount* is the number of z/OS Communications Server INQUIRE OPTCD=PERSESS commands issued.
- *spcount* is the number of z/OS Communications Server sessions that persisted.
- *stcount* is the number of sessions that CICS terminated with a CLSDST or TERMSESS macro. If an OPNDST failure occurred for an entire NIBLIST (see message DFHZC0129), the sessions in the NIBLIST have been terminated and this count includes these sessions.
- *socount* is the number of z/OS Communications Server sessions that CICS restored successfully with an OPNDST OPTCD=RESTORE macro.
- *secount* is the number of sessions that CICS failed to restore.

System action: CICS continues.

User response: None.

Module: DFHZGRP

XMEOUT Parameters: *applid, icount,spcount, stcount, socount, secount*

Destination: Console

DFHZC0125 *date time applid netname* **persistent session will be terminated.** *sense* **((***instance***) Module name {DFHZGRP})**

Explanation: CICS was initializing with an EMERGENCY start and some z/OS Communications Server sessions persisted from a previous CICS with a nonzero PSDI value.

However, the session with a NETNAME of *netname* is terminated for one of the following reasons as indicated by the *instance* in the message. An AP exception trace entry is made for each *instance* as follows.

Instance	**Point ID and Explanation**
1	X'FB21 There is not enough storage to recover an APPC session.
2	X'FB22 There is not enough storage to recover a terminal session.
3	X'FB25 The NIB and the TCTTE with the same NETNAME were not of the same LU TYPE.

System action: An AP exception trace with a point ID as above is issued. The session is terminated and CICS continues.

User response: The exception trace point identifies where the message was issued and determines the action to take.

Module: DFHZGRP

XMEOUT Parameters: *date, time,applid, netname, sense, instance, {1=DFHZGRP, 2=DFHZGRP, 3=DFHZGRP}*

Destination: CSNE

DFHZC0126I *applid* **No VTAM sessions persisted for an EMERGENCY restart.**

Explanation: CICS was initializing with an EMERGENCY start but no z/OS Communications Server sessions persisted from a previous CICS run. Possible reasons are

- No persistence was specified in the previous run.
- CICS crashed with the ACB open but no sessions were in use.
- The PSDI value expired.
- An error occurred before DFHZGRP could determine if any sessions persist.

System action: CICS continues.

User response: None.

Module: DFHZGRP

XMEOUT Parameter: *applid*

Destination: Console

DFHZC0127 *applid* **Cannot reestablish persisting sessions - VTAM ACB is closed. Code:** *X'code'*. **Module name:** *module*

Explanation: The z/OS Communications Server ACB has been opened and CICS is processing z/OS Communications Server persisting sessions, however the ACB was closed, or is being closed by operator action before all the sessions could be restored or terminated.

System action: CICS continues to close the z/OS Communications Server ACB and then runs without z/OS Communications Server support.

User response: Determine why the operator closed the ACB and either continue without z/OS Communications Server, dynamically open the ACB, or shut CICS down normally and restart it.

X'code is the AP exception trace entry that determines which z/OS Communications Server macro diagnosed the ACB as being closed and where it was issued.

Module: DFHZGRP DFHZGUB

XMEOUT Parameters: *applid, X'code',module*

Destination: Console

DFHZC0128 *applid* **Cannot reestablish persisting sessions - VTAM not responding. Module name:** *module*

Explanation: CICS is processing z/OS Communications Server persisting sessions. However it has issued a z/OS Communications Server macro and has waited for 8 minutes for the response.

System action: If this occurs during start up, CICS terminates. If this occurs during dynamic open, the z/OS Communications Server ACB is closed and CICS continues without VTAM.

A dump is taken for this message in both cases.

User response: You can restart CICS again immediately, or wait for the persistent sessions to time out and then restart CICS.

If this problem recurs you need to find out why z/OS Communications Server is not responding to the INQUIRE or OPNDST macro (if the message is issued by DFHZGRP), or the CLSDST or TERMSESS macro (if the message is issued by DFHZGUB).

You can determine which macro is not responding by examining the TCP section of the dump and looking at the RPLs in the PS POOL labeled PS_RPL. The first RPL is for use by INQUIRE or OPNDST, the next 10 by CLSDST or TERMSESS.

Module: DFHZGRP, DFHZGUB

XMEOUT Parameters: *applid, module*

Destination: Console

DFHZC0129 *applid* **VTAM OPNDST RESTORE failed. All sessions in the NIBLIST will be terminated instead. RTNCD,FDB2** *X'rc',X'fd'*. **Code:** *X'code'*

Explanation: CICS is processing z/OS Communications Server persistent sessions during an EMERGENCY restart but z/OS Communications Server returned a RTNCD,FDB2 of *rc,fd* in response to the OPNDST OPTCD=RESTORE macro.

System action: An AP exception trace entry, *X'code*, is made.

A system dump is taken on the first occurrence of this problem unless dumps have been specifically suppressed in the dump table.

CICS attempts to terminate all the sessions in the NIBLIST instead of restoring them.

User response: Use the dump taken on the first occurrence of this problem or the exception trace entry and the *VTAM programming manual* to determine the meaning of the RTNCD,FDB2 and the actions necessary to correct it.

Module: DFHZGRP

XMEOUT Parameters: *applid, X'rc',X'fd', X'code'*

Destination: Console

DFHZC0130 *applid* **VTAM INQUIRE PERSESS failed. Cannot restore any persisting sessions. RTNCD,FDB2:** *X'rc',X'fd'*. **Code** *X'code'*

Explanation: CICS is processing z/OS Communications Server persistent sessions but z/OS Communications Server returned a RTNCD,FDB2 of

rc,fd in response to the INQUIRE OPTCD=PERSESS macro.

System action: An AP exception trace entry, *X'code*, is made.

A system dump is taken unless dumps have been specifically suppressed in the dump table.

If this occurs during initialization, CICS terminates.

If this occurs during a dynamic open of the ACB, CICS closes the ACB and continues to run without VTAM.

The sessions persist until the PSDI value times out or until z/OS Communications Server operator commands are issued to terminate the sessions.

User response: Use the dump or the exception trace entry and the *z/OS Communications Server programming manual* to determine the meaning of the RTNCD,FDB2 and the actions necessary to correct it.

If the problem occurs during initialization, try to correct the error and then retry the start up, or wait until the PSDI value time expires and restart CICS.

If the problem occurs when the ACB was opened dynamically, you can repeat the command to open the z/OS Communications Server ACB, or wait until the PSDI time expires and then repeat it.

Module: DFHZGRP

XMEOUT Parameters: *applid, X'rc',X'fd', X'code'*

Destination: Console

DFHZC0131 *date time applid netname termid* **VTAM OPNDST RESTORE failed.**

Explanation: CICS is processing z/OS Communications Server persistent sessions and has issued an OPNDST OPTCD=RESTORE against a NIBLIST. However, the NIB identified by *netname* and a session or termid of *termid* failed to open successfully. This is probably because the session was terminated by the z/OS Communications Server operator after INQUIRE OPTCD=PERSESS was issued.

System action: CICS continues.

User response: Reopen the session in the normal way.

Module: DFHZGRP

XMEOUT Parameters: *date, time,applid, netname, termid*

Destination: CSNE

DFHZC0132 *applid* **VTAM INQUIRE PERSESS failed. Cannot restore some persisting sessions. Network only partially restored. RTNCD,FDB2** *X'rc'*,*X'fd'*. **Code:** *X'code'*

Explanation: CICS is processing z/OS Communications Server persistent sessions but z/OS Communications Server returned a RTNCD,FDB2 of *rc,fd* in response to a subsequent INQUIRE OPTCD=PERSESS macro.

System action: An AP exception trace entry, *X'code*, is made.

A system dump is taken unless you have specifically suppressed dumps in the dump table.

CICS continues with a partial network. Some of the sessions are usable, others are not until the PSDI value times out or the z/OS Communications Server operator terminates the sessions that failed.

User response: Use the dump or the exception trace entry and the *VTAM programming manual* to determine the meaning of the RTNCD,FDB2 and the actions necessary to correct it.

If enough of the network is available, wait until the PSDI value expires or use z/OS Communications Server operator commands to terminate the sessions.

If the network is unusable, either close and reopen the z/OS Communications Server ACB, or restart CICS.

Module: DFHZGRP

XMEOUT Parameters: *applid, X'rc',X'fd', X'code'*

Destination: Console

DFHZC0133A *applid* **Persistent session recovery failed.**

Explanation: CICS was initializing when an attempt to process z/OS Communications Server persistent session failed. The reasons are given in earlier messages.

System action: CICS terminates.

User response: Examine earlier messages and exception trace entries to determine the reason for failure.

Module: DFHSII1

XMEOUT Parameter: *applid*

Destination: Console

DFHZC0134I *applid* **VTAM sessions persisted when OPEN ACB issued. Inquires issued** *icount*, **sessions persisting** *spcount*, **sessions terminated** *stcount*, **sessions OPNDSTed** *socount*, **sessions in error** *secount*.

Explanation: The z/OS Communications Server ACB has been opened while CICS is running, and some z/OS Communications Server sessions persisted after z/OS Communications Server abended.

Each of the persisting sessions has been restored or terminated. The message inserts are as follows

- *icount* is the number of VTAM INQUIRE OPTCD=PERSESS commands issued.

- *spcount* is the number of z/OS Communications Server sessions that persisted.
- *stcount* is the number of sessions that CICS terminated with a CLSDST or TERMSESS macro. If an OPNDST failure occurred for an entire NIBLIST (see message DFHZC0129), the sessions in the NIBLIST have been terminated and this count includes these sessions.
- *socount* is the number of z/OS Communications Server sessions that CICS restored successfully with an OPNDST OPTCD=RESTORE macro.
- *secount* is the number of sessions that CICS failed to restore.

System action: CICS continues.

User response: None.

Module: DFHZGRP

XMEOUT Parameters: *applid, icount,spcount, stcount, socount, secount*

Destination: Console

DFHZC0136 *applid* **PSDI value indicated persistence but the run time VTAM does not support persistent sessions.**

Explanation: The PSDI value is nonzero. This specifies that z/OS Communications Server sessions are to persist across CICS failures. However, this release of z/OS Communications Server does not support persistent sessions.

System action: CICS sets the PSDI value to 0 and continues without persistent session support.

User response: ACF/Communications Server Release 3 Version 4 Modification 1 or higher must be used in order to take advantage of CICS persistent session support.

To prevent this message being issued when using an earlier release of z/OS Communications Server, set the PSDINT system initialization parameter to zero, and when using the EXEC CICS SET VTAM command, either omit, or specify a value of zero for the PSDINTERVAL operand.

Module: DFHZSLS

XMEOUT Parameter: *applid*

Destination: Console

DFHZC0137 *applid* **PSDI value indicated persistence but the TCT assemble time z/OS Communications Server does not support persistent sessions.**

Explanation: The PSDI value is nonzero. This specifies that z/OS Communications Server sessions are to persist across CICS failures. However, DFHTCT*xx* was assembled against a release of z/OS Communications Server that cannot support persistent sessions.

System action: CICS sets the PSDI value to 0 and continues without persistent session support.

User response: Reassemble the TCT against ACF/Communications Server Release 3 Version 4 Modification 1 or higher in order to take advantage of CICS persistent session support.

To prevent this message being issued when using an earlier release of z/OS Communications Server, set the PSDINT system initialization parameter to zero, and when using the EXEC CICS SET VTAM command, either omit, or specify a value of zero for the PSDINTERVAL operand.

Module: DFHZSLS

XMEOUT Parameter: *applid*

Destination: Console

DFHZC0140 *applid* **SETLOGON PERSIST failed. RTNCD,FDB2:** *X'rc',X'fd'***. Code:** *X'code'*

Explanation: CICS was opening the z/OS Communications Server ACB, setting the PSDI value from an operator command or doing a WARM shut down. It attempted to issue the z/OS Communications Server command SETLOGON OPTCD=PERSIST or OPTCD=NPERSIST. However, z/OS Communications Server returned a RTNCD,FDB2 of *rc,fd*.

System action: An AP exception trace entry, *code*, is made.

A system dump is taken unless you have specifically suppressed dumps in the dump table.

If the ACB was being opened, no z/OS Communications Server sessions persist and the PSDI value is set to 0.

If just the PSDI value was being changed, either by the operator or during termination, the value is unchanged, both to CICS and to VTAM.

If this occurs during a z/OS Communications Server shut down and some sessions are not closed, sessions may exist on z/OS Communications Server start-up and are terminated then.

User response: Use the dump taken or the exception trace entry *code* and the *z/OS Communications Server programming manual* to determine the meaning of the RTNCD,FDB2 and the actions necessary to correct it.

Module: DFHZGSL

XMEOUT Parameters: *applid, X'rc',X'fd', X'code'*

Destination: Console

DFHZC0144 *date time applid sysid termid* **Synclevel 2 conversation started by** *netname* **before completion of exchange lognames.** *sense* **((***instance***) Module name: {DFHZGDA})**

Explanation: CICS has received an attach FMH5 for a synclevel 2 conversation from a partner with netname *netname* before exchange lognames processing is complete.

System action: A Deallocate(Abend) with sense code 08640001 is issued for the conversation.

User response: No further APPC synclevel 2 conversations can be started by the partner until exchange lognames has completed. Use CEMT to inquire on the status of the connection in order to determine whether exchange lognames has completed (see the *CICS Supplied Transactions* for more information).

Module: DFHZGDA

XMEOUT Parameters: *date, time,applid, sysid, termid, netname, sense, instance, {1=DFHZGDA}*

Destination: CSNE

DFHZC0145 *date time applid netname termid* **Synclevel 2 APPC conversation started before Exchange Lognames completed. Error occurred executing Deallocate(Abend).** *sense* **((***instance***) Module name: {DFHZGDA})**

Explanation: The APPC session *termid* with *netname* persisted during a CICS persistent sessions restart. The partner initiated a new synclevel 2 conversation before Exchange Lognames processing had completed. CICS attempted to issue a Deallocate(Abend) for the conversation. The Deallocate(Abend) could not be completed for the reason indicated by the *instance* in the message as follows.

Instance	**Explanation**
01	DFHZGDA called with chain Finite State Machine in unexpected state.
02	DFHZGDA called with bracket Finite State Machine in unexpected state

For the meaning of *sense*, see message DFHZC2400.

System action: The state of the session after the persistent sessions restart cannot be determined, and the session is deactivated in order to reset the states The sessions are reactivated.

User response: If the session is not successfully reactivated, check the CSNE log for messages indicating why the new BIND failed. The session may have been set out of service by the z/OS Communications Server operator.

Module: DFHZGDA

XMEOUT Parameters: *date, time,applid, netname, termid, sense, instance, {1=DFHZGDA, 2=DFHZGDA}*

Destination: CSNE

DFHZC0146 *date time applid* **VTAM session for** *termid* **successfully recovered following a persistent sessions restart** *sense* **((***instance***) Module name: {DFHZXRC})**

Explanation: CICS has restored the z/OS Communications Server persistent session for terminal *termid* following a persistent sessions restart.

The equivalent message for APPC sessions is DFHZC0156.

System action: If recovery notification is specified for this terminal, the recovery message is sent to the terminal, or the transaction requested to run at recovery notification time is started.

User response: If required, code an NEP to override the recovery notification option originally specified in the TYPETERM definition for this session. See the *CICS Resource Definition Guide* and the *CICS Customization Guide* for more information.

Module: DFHZXRC

XMEOUT Parameters: *date, time,applid, termid, sense, instance, {1=DFHZXRC}*

Destination: CSNE

DFHZC0147 *date time applid sysid termid* **Error occurred recovering persisting session.** *sense* **((***instance***) Module name: {DFHZGDA})**

Explanation: An error has prevented the recovery of an APPC conversation which persisted across an emergency restart.

The session with a termid of *termid* is terminated. The reason and the corresponding AP exception trace entry are indicated by the *instance* in the message;

Instance	**Point ID and explanation**
1	X'FB79 SEND not executed due to invalid bracket state.
2	X'FB7B Insufficient storage for session recovery.
3	X'FB76 Recovery status byte TCTE_PRSS contains an unexpected value.
4	X'FB7A RECEIVE not executed due to invalid bracket state.
5	X'FB78 Unexpected sense received during persistent sessions recovery.

System action: An AP exception trace with a point ID

as above is issued. The session is terminated and CICS continues.

User response: If recovery failed due to insufficient storage, try increasing the DSA or EDSA size limits (see the *CICS Customization Guide*). If any of the other instances occur, you will need further assistance from IBM. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHZGDA

XMEOUT Parameters: *date, time,applid, sysid, termid, sense, instance, {1=DFHZGDA, 2=DFHZGDA, 3=DFHZGDA, 4=DFHZGDA, 5=DFHZGDA}*

Destination: CSNE

DFHZC0148 *date time applid sysid termid* **VTAM send or receive failed during persistent sessions recovery.** *sense* **((***instance***) Module name: {DFHZGDA})**

Explanation: As part of session recovery following a persistent session restart CICS issued a z/OS Communications Server SEND or RECEIVE. The z/OS Communications Server request failed leaving the session in an unknown state.

For the meaning of *sense*, see message DFHZC2400.

System action: The session is terminated.

User response: To determine the cause of the problem, see the associated DFHZC*nnnn* message in the CSNE log. This message gives further diagnostic information on the failing z/OS Communications Server request.

Module: DFHZGDA

XMEOUT Parameters: *date, time,applid, sysid, termid, sense, instance, {1=DFHZGDA, 2=DFHZGDA}*

Destination: CSNE

DFHZC0149 *date time applid termid* **Connection failure occurred during a persistent sessions restart** *sense* **((***instance***) Module name: {DFHZNSP})**

Explanation: During a persistent sessions restart, CICS has been notified of the failure of a session initiation request issued during the previous instance of CICS.

For the meaning of *sense*, see message DFHZC2400.

System action: Processing continues.

User response: None

Module: DFHZNSP

XMEOUT Parameters: *date, time,applid, termid, sense, instance, {1=DFHZNSP}*

Destination: CSNE

DFHZC0150 *date time applid termid* **Error processing the session state data returned after a persistent sessions restart.** *sense* **((***instance***) Module name: {DFHZXRC})**

Explanation: The z/OS Communications Server session for terminal *termid* persisted during a CICS persistent sessions restart, but an error occurred while processing the session state data returned by VTAM. The reason is indicated by the *instance* in the message as follows.

Instance	Explanation
01	DFHZXRC called with an invalid request.
02	TCTTEDA contains null characters instead of the expected address.
03	Reserved
04	The vector key of the data passed by z/OS Communications Server is not correct.
05	The length of the vector_29 data is too short.
06	Unidentified cleanup action detected.
07	Unidentified recovery option detected.
08	Invalid cleanup action for RECOVOPTION(NONE).
09	Invalid cleanup action for RECOVOPTION(MESSAGE).
10	Invalid cleanup action for RECOVOPTION(TRANSACTION).
11	Reserved.
12	DFHZXRC has been driven to process an LU6 session.
13	Neither XRF nor persistent sessions recovery is in progress DFHZXRC has been called in error.

For the meaning of *sense*, see message DFHZC2400.

System action: The state of the session after the persistent sessions restart cannot be determined, and the session is terminated in order to reset the states. Non-APPC sessions are restarted.

User response: If the session is not successfully restarted, check the CSNE log for messages indicating why the new BIND failed. The session may have been set out of service by the z/OS Communications Server operator.

Module: DFHZXRC

XMEOUT Parameters: *date, time,applid, termid, sense, instance, {1=DFHZXRC, 2=DFHZXRC, 3=DFHZXRC, 4=DFHZXRC, 5=DFHZXRC, 6=DFHZXRC, 7=DFHZXRC, 8=DFHZXRC, 9=DFHZXRC, 10=DFHZXRC, 11=DFHZXRC, 12=DFHZXRC, 13=DFHZXRC}*

Destination: CSNE

DFHZC0151 *date time applid* **Transaction** *transid* **was started invalidly.** *transid* **will terminate.**

Explanation: Transaction *transid* was started invalidly. *transid* should only be ATTACHed by CICS. It should not be started by keying in through the terminal or by a START from a user program.

System action: *transid* will terminate.

User response: None

Module: DFHZSGN, DFHZPCT, DFHZRTP

XMEOUT Parameters: *date, time,applid, transid, transid*

Destination: CSNE

DFHZC0152 *date time applid termid* **Signon of user at termid** *termid* **failed following a persistent sessions restart. Return code** *rc* **was received from the user domain.**

Explanation: CICS attempted to sign on a user following a persistent sessions restart. The user domain replied with one of the following return codes:

Return code	Explanation
005	The user is already signed on.
006	The userid is not authorized for this terminal.
008	The user's access to the specific group has been revoked.
009	The security label associated with the userid in the ESM does not have the necessary authority.
010	The userid was not contained in the group specified.
011	The userid has been revoked.
012	The userid is not known to the ESM.
015	SEC=NO was specified in the SIT.
016	The ESM is not responding.
017	The ESM is not responding.
018	The ESM returned a response which was not recognized by the CICS security domain.
27	The user domain returned a disaster response.

System action: An AP exception trace with point ID FB9B is issued.

The terminal is available but the user is not signed on to it. The terminal has the attributes of the default user.

User response: Note the return code and take the necessary action. Look for messages output earlier by the ESM or the security domain. If no reason can be

Module: DFHZSGN

XMEOUT Parameters: *date, time,applid, termid, termid, rc*

Destination: CSNE

DFHZC0153 *date time applid* **A catalog write failed in the restart timer program.**

Explanation: The restart timer program DFHZRTP has failed in an attempt to write a timer record to the catalog. If no timer records are written to the catalog terminals will not be signed on again after a Persistent Sessions restart.

System action: An exception trace is output.

User response: Investigate the cause of the error. There may be a problem with the global catalog. Look for other messages confirming this.

Module: DFHZRTP

XMEOUT Parameters: *date, time,applid*

Destination: CSNE

DFHZC0154 *date time applid* **Timed start or cancellation of the restart timer program failed.**

Explanation: A timed start or cancellation of the restart timer program DFHZRTP failed. This means that no timer records will be written to the global catalog and terminals will be timed out if a Persistent Sessions restart occurs.

System action: CICS initialization continues. In the event of a Persistent Sessions restart terminals will not be signed on.

User response: Look for earlier messages and trace entries output by the timer domain which may indicate the reason for the failure. The most likely reason is that CICS is short on storage.

Module: DFHTCRP, DFHZPCT

XMEOUT Parameters: *date, time,applid*

Destination: CSNE

DFHZC0155 *date time applid sysid termid* **Error occurred during processing of session state data returned after restart of persisting session.** *sense* **((***instance***) Module name {DFHZXPS})**

Explanation: The z/OS Communications Server APPC session *sysid termid* persisted during a CICS persistent session restart, but an error occurred while processing the session state data returned by z/OS Communications Server following an OPNDST OPTCD=RESTORE.

If the error needs further investigation, a dump is taken.

No dump is taken if one has already been taken for an earlier problem, or if the problem is known as one for which a session cannot be allowed to persist. An example of this is bind security processing not completing for this session when CICS terminated.

The reason and the corresponding AP exception trace entry are indicated by the *instance* in the message.

Instance

Point ID and Explanation

1 X'FBFD'

During reject attach processing a call was made to DFHZGDA but DFHZGDA rejected the call with invalid format or invalid function.

2 X'FBFD'

An error occurred during reject attach processing. The session is in an unknown state.

3 X'FBD2'

The TCTE_PRSS status byte was set to 0 but reject attach processing was not taking place. This session state is not valid for entry to DFHZXPS.

4 X'FBE4'

An error occurred during DEALLOCATE ABEND processing. This will have been handled by DFHZGDA so no dump is taken but the session is terminated.

5 X'FBD2'

The TCTE_PRSS byte (persistent sessions status byte) contained an unknown value on entry to DFHZXPS.

6 X'FBE6'

The TCTE_PRSS_CV29_PTR (pointer to data returned by z/OS Communications Server) contained zeroes on entry to DFHZXPS.

7 X'FBD3'

The CV29 data returned from z/OS Communications Server had a zero length on entry to DFHZXPS.

8 X'FBD4'

The BIS flow data returned by z/OS Communications Server showed BIS RQE1 received but the outbound BIS flow was not consistent with this.

9 X'FBD4'

The BIS flow data returned by z/OS Communications Server showed BIS RQE3 received but the outbound BIS flow was not consistent with this.

10 X'FBD4'

The BIS flow data returned by z/OS Communications Server showed that no BIS flow had been received but the outbound BIS flow was not consistent with this.

11 X'FBD4'

The BIS flow data returned from z/OS Communications Server was not recognized.

12 X'FBD5'

The bid flow data returned by z/OS Communications Server showed a request that was not recognized where this session is the contention winner.

13 X'FBD5'

The bid flow data returned by z/OS Communications Server showed that a negative X'088B' response had been sent but there was nothing to indicate that the session was closing down. This session is the contention winner.

14 X'FBD5'

The bid flow data returned by z/OS Communications Server contained a response that was not recognized where this session is the contention winner.

15 X'FBD5'

The bid flow data returned by z/OS Communications Server was not recognized. This session is the contention winner.

16 X'FBD5'

The bid flow data returned by z/OS Communications Server contained a request that was not recognized where this session is the contention loser.

17 X'FBD5'

The bid flow data returned by z/OS Communications Server contained a negative X'088B' response but there was nothing to indicate that the session was closing down. This session is the contention loser.

18 X'FBD5'

The bid flow data returned by z/OS Communications Server contained a response that was not recognized where this session is the contention loser.

19 X'FBD5'

The bid flow data returned by z/OS Communications Server was not recognized. This session is the contention loser.

20 X'FBD8'

The RU category returned by z/OS Communications Server in the CV29 data was not valid for LU6.2. (This session was the primary and the last flow was an outbound request).

21 X'FBD8'

The RU category returned by z/OS Communications Server in the CV29 data was not valid for LU6.2. (This session was the primary and the last flow was an inbound request).

22 X'FBD8'

The RU category returned by z/OS Communications Server in the CV29 data was not valid for LU6.2. (This session was the primary and the last flow was an outbound response.)

23 X'FBD8'

The RU category returned by z/OS Communications Server in the CV29 data was not valid for LU6.2. (This session was the primary and the last flow was an inbound response).

24 X'FBD9'

DFHZXPS could not determine the direction of the last flow from the CV29 data returned by VTAM. (This session was the primary).

25 X'FBD8'

The RU category returned by z/OS Communications Server in the CV29 data was not valid for LU6.2. (This session was the secondary and the last flow was an inbound request.)

26 X'FBD8'

The RU category returned by z/OS Communications Server in the CV29 data was not valid for LU6.2. (This session was the secondary and the last flow was an outbound request.)

27 X'FBD8'

The RU category returned by z/OS Communications Server in the CV29 data was not valid for LU6.2. (This session was the secondary and the last flow was an inbound response).

28 X'FBD8'

The RU category returned by z/OS Communications Server in the CV29 data was not valid for LU6.2. (This session was the secondary and the last flow was an outbound response).

29 X'FBD9'

CICS could not determine the direction of the last flow from the CV29 data returned by VTAM. (This session was the secondary.)

30 X'FBD9'

The last_thing_to_flow byte contained an invalid value. This indicates a logic error in DFHZXPS.

31 X'FBDA'

The last inbound flow was a response that was not for the previous request.

32 X'FBDA'

A negative response was received that was not for a command and was not a X'0846 negative response.

33 X'FBDA'

The last inbound flow was a response that was not for this bracket. (This session is the primary and started the current bracket).

34 X'FBDA'

The last inbound flow was a response that was not for this bracket. (This session is the secondary and started the current bracket.

35 X'FBDA'

The last inbound flow was a response that was not for this bracket. (This session is the primary and did not start the current bracket).

36 X'FBDA'

The last inbound flow was a response that was not for this bracket. (This session is the secondary and did not start the current bracket).

37 X'FBDA'

The last flow was a positive response outbound and was not for the previous request.

38 X'FBDB'

The last flow was an inbound LUSTAT command that could not be identified.

39 X'FBDB'

The last flow was an inbound RTR that was not processed by the bid analysis routine.

40 X'FBDB'

The last flow was an inbound command that could not be identified.

41 X'FBDB'

The last flow was an outbound LUSTAT command that could not be identified.

42 X'FBDB'

The last flow was an outbound RTR request that was not processed by the bid analysis routine.

43 X'FEDB'

The last flow was an outbound command request that could not be identified.

44 X'FBDC'

The last flow was an inbound response to BIS that was not processed with the BIS flow data.

45 X'FBDD'

The last flow was an inbound positive response to a command that could not be identified.

46 X'FBDA'

The last flow was an inbound response to an LUSTAT command but there was no corresponding outbound request.

47 X'FBDA'

The last flow was an inbound negative response to an LUSTAT request which could not be identified.

48 X'FBDC'

The last flow was a negative response inbound to a BIS request that did not show up in the BIS flow data.

49 X'FBDD'

The last flow was a negative response inbound to a command that could not be identified.

50 X'FBDC'

The last flow was a positive response outbound to BIS that was not consistent with the BIS flow data.

51 X'FBDD'

The last flow was a positive response outbound to a command that could not be identified.

52 X'FBDC'

The last flow was a negative response outbound to BIS that was not consistent with the BIS flow data.

53 X'FBDD'

The last flow was an outbound negative response to a command that could not be identified.

54 X'FBE1'

The last request to flow was SIGNAL (expedited flow) but no normal flow data appears in the CV29 normal flow data area.

55 X'FBE1'

The last flow was a SIGNAL request (expedited flow). However analysis of the normal flow data shows both sides sending which is not possible. (Outbound flow was with EC.)

56 X'FBE1'

The last flow was a SIGNAL request (expedited flow). However analysis of the normal flow data shows both sides sending which is not possible. (Outbound flow was in chain.)

57 X'FBD5'

The tctewin/tctelse bits in the TCTTE have not been set correctly.

58 X'FBDF'

The session is not in CS mode when analysis of the CV29 data shows that a call to DFHZGDA to ABEND the current transaction is required.

59 X'FBE7'

A SEND_FMH7 call to DFHZGDA was rejected with invalid_format or invalid_function.

60 X'FBE7'

A SEND_FMH7 call to DFHZGDA was rejected because of a disastrous error in DFHZGDA.

61 X'FBE7'

A RECEIVE_FMH7 call to DFHZGDA was rejected with invalid_format or invalid_function.

62 X'FBE7'

A RECEIVE_FMH7 call to DFHZGDA was rejected because of a disastrous error in DFHZGDA.

63 X'FBE0'

Internal DFHZXPS logic error. The input parameters are invalid when a call is about to be made to DFHZGDA.

64 X'FBE5'

An invalid return code was received from a call to DFHTCPCL with ENTRY=DFHZRST1.

65 X'FBDE'

The tcte_bid_status byte contained an unrecognized value.

The z/OS Communications Server APPC session *sysid termid* persisted during a CICS persistent session restart, but an error occurred while processing the session state data returned by z/OS Communications Server following an OPNDST OPTCD=RESTORE.

If the error needs further investigation, a dump is taken.

No dump is taken if one has already been taken for an earlier problem, or if the problem is known as one for which a session cannot be allowed to persist. An example of this is bind security processing not completing for this session when CICS terminated.

The reason and the corresponding AP exception trace entry are indicated by the *instance* in the message. See message DFHZC0155 in the *CICS Messages and Codes Vol 1* manual for an explanation of these codes.

System action: An AP exception trace with a point ID is issued. The state of the session after the restart cannot be determined, and the session is terminated in order to reset the states. The session is restarted. A system dump is produced for all instances except 04.

User response: If the session is not successfully restarted, check the CSNE log for messages indicating why the new BIND failed. The session may have been set out of service by the z/OS Communications Server operator.

Module: DFHZXPS

XMEOUT Parameters: *date, time, applid, sysid, termid, sense, instance, {1=DFHZXPS, 2=DFHZXPS, 3=DFHZXPS, 4=DFHZXPS, 5=DFHZXPS, 6=DFHZXPS, 7=DFHZXPS, 8=DFHZXPS, 9=DFHZXPS, 10=DFHZXPS, 11=DFHZXPS, 12=DFHZXPS, 13=DFHZXPS, 14=DFHZXPS, 15=DFHZXPS, 16=DFHZXPS, 17=DFHZXPS, 18=DFHZXPS, 19=DFHZXPS, 20=DFHZXPS, 21=DFHZXPS, 22=DFHZXPS, 23=DFHZXPS, 24=DFHZXPS, 25=DFHZXPS, 26=DFHZXPS, 27=DFHZXPS, 28=DFHZXPS, 29=DFHZXPS, 30=DFHZXPS, 31=DFHZXPS, 32=DFHZXPS, 33=DFHZXPS, 34=DFHZXPS, 35=DFHZXPS, 36=DFHZXPS, 37=DFHZXPS, 38=DFHZXPS, 39=DFHZXPS, 40=DFHZXPS, 41=DFHZXPS, 42=DFHZXPS, 43=DFHZXPS, 44=DFHZXPS, 45=DFHZXPS, 46=DFHZXPS, 47=DFHZXPS, 48=DFHZXPS, 49=DFHZXPS, 50=DFHZXPS, 51=DFHZXPS, 52=DFHZXPS, 53=DFHZXPS, 54=DFHZXPS, 55=DFHZXPS, 56=DFHZXPS, 57=DFHZXPS, 58=DFHZXPS, 59=DFHZXPS, 60=DFHZXPS, 61=DFHZXPS, 62=DFHZXPS, 63=DFHZXPS, 64=DFHZXPS, 65=DFHZXPS}*

Destination: CSNE

DFHZC0156 *date time applid sysid* **VTAM APPC session** *termid* **successfully recovered following a persistent sessions restart.** *sense* **((***instance***) Module name: {DFHZXPS})**

Explanation: CICS has restored the z/OS Communications Server APPC persisting session for *sysid termid* following a persistent sessions restart.

The equivalent message for non-APPC sessions is DFHZC0146. Note that the RECOVNOTIFY option that applies to message DFHZC0146 is not applicable to APPC sessions.

System action: Processing continues.

User response: None.

Module: DFHZXPS

XMEOUT Parameters: *date, time,applid, sysid, termid, sense, instance, {1=DFHZXPS, 2=DFHZXPS}*

Destination: CSNE

DFHZC0157 *date time applid sysid* **VTAM APPC session** *termid* **could not be recovered following a persistent sessions restart. The session will be unbound.***sense* **((***instance***) Module name: {DFHZXPS})**

Explanation: CICS was unable to restore the APPC persisting session for *sysid termid* following a persistent sessions restart. There are three possible reasons for this

1. The BIND processing was incomplete when CICS failed.
2. Resynchronization was in progress for the session when CICS failed.
3. The recovery data returned by z/OS Communications Server for the session was capable of more than one interpretation.

The TCTTE and TIOA are output for information only.

System action: The session is unbound and rebound.

User response: None.

Module: DFHZXPS

XMEOUT Parameters: *date, time,applid, sysid, termid, sense, instance, {1=DFHZXPS}*

Destination: CSNE

DFHZC0158 *date time applid* **Persistent sessions signon data for terminal** *termid* **could not be written to the catalog.**

Explanation: CICS was attempting to write signon data for *termid* to the global catalog so that the signon status could be recovered after a persistent sessions restart, but the catalog write failed.

System action: An exception trace is output. Loss of the data may mean that *termid* will not be signed on or off correctly after a persistent sessions restart.

User response: Investigate the cause of the error. Look for earlier messages and trace entries from the catalog domain indicating the cause of the error, for example the catalog may be full.

Module: DFHZSGN, DFHZPCT, DFHSNTU

XMEOUT Parameters: *date, time,applid, termid*

Destination: CSNE

DFHZC0160 *date time applid tranid* **CNOS changes for modename** *modename* **to node** *netname* **connection** *sysid* **are incomplete.**

Explanation: CICS has made two attempts to implement the change number of sessions (CNOS) command for the modename *modename* on the APPC connection *sysid*. The command was not successful because of other activity on the modegroup. This only happens on modegroups which are very busy. The state of one or more of the sessions has changed during the processing of the CNOS request.

The CNOS command results from a connection acquire, a connection release, or a request for a specific modename on this system or the connected system. If the connected system is not CICS, commands specific to that system may have been used.

System action: The modegroup is left in the state reached after the second attempt to implement the changes.

User response: Use the CEMT INQUIRE MODENAME command to determine the current state of the modegroup. The command may show the modegroup as you expect for successful CNOS completion. This is because the command only shows data for available and active sessions. CICS may have had problems with CNOS values for loser sessions, which would not be apparent by using CEMT. If the values are not as required, re-issue the original command.

Module: DFHZGCA

XMEOUT Parameters: *date, time,applid, tranid, modename, netname, sysid*

Destination: CSNE

DFHZC0161 *date time applid tranid* **CNOS command for modename** *modename* **to node** *netname* **connection** *sysid* **has failed with code** *X'code'*.

Explanation: CICS has encountered an error while attempting to execute a change number of sessions (CNOS) command for the modename *modename* on the APPC connection *sysid*. The failure code X'*code*' is one of the following:

X'FBA2'
The request to create a lock manager lock for *modename* failed.

X'FBA3'
CICS could not allocate a session for the CNOS negotiation conversation.

X'FBA6'
The request to obtain a lock manager lock for *modename* failed.

X'FBAA'
modename was not found or has been defined with one of the reserved names SNASVCMG or CPSVCMG.

X'FBAB'
sysid is known, but not as a connection.

X'FBAC'
The specified connection *sysid* has no modegroups. This is probably caused by a storage overwrite.

X'FBAD'
The first modegroup on the specified connection *sysid* has no sessions. This is probably caused by a storage overwrite.

X'FBAF'
The receive command for the CNOS reply failed.

X'FBB1'
The send command for the CNOS command or CNOS reply failed.

X'FBB2'
The session for the single-session connection could not be found. This is probably caused by a storage overwrite.

X'FBB3'
sysid is not a known connection name.

X'FBB4'
The connection is defined to CICS as not supporting CNOS. This is probably caused by a storage overwrite.

X'FBB9'
CICS sent a CNOS command for a specific modename but the partner system returned a CNOS reply indicating all modegroups. This is a protocol violation.

System action: CICS makes an exception trace with ID AP△*xxxx*; where *xxxx* is the code in the message. CICS takes a system dump for all failure codes except X'FBA2, X'FBA3, X'FBA6, X'FBAF, X'FBB1, and X'FBB9. CICS continues without completing the request. The task does not abend. Message DFHME0116 should be

produced containing the symptom string for this problem.

User response: This depends on the error code as follows:

X'FBA2'
Follow the guidance given for the lock manager console message that precedes this.

X'FBA3'
If all the sessions are busy, make one available and retry.

X'FBA6'
Follow the guidance given for the lock manager message that precedes this.

X'FBAA'
Reissue the request with the correct modename.

X'FBAB'
Reissue the request with the correct connection name.

X'FBAC'
See the *CICS Problem Determination Guide* for further guidance on storage problems.

X'FBAD'
Same as for X'FBAC.

X'FBAF'
The connected system, or the link to it, has failed. Determine the reason for this from any other messages produced.

X'FBB1'
Same as for X'FBAF.

X'FBB2'
Same as for X'FBAC.

X'FBB3'
Reissue the request with the correct connection name.

X'FBB4'
Same as for X'FBAC.

X'FBB9'
Investigate why the connected system is not following the APPC protocols.

Module: DFHZGCN

XMEOUT Parameters: *date, time, applid, tranid, modename, netname, sysid, X'code'*

Destination: CSNE

DFHZC0162 *date time applid tranid* **CNOS transaction for connection** *sysid* **has failed with code** *X'code'* **subcode** *X'subcode'***.**

Explanation: The change number of sessions (CNOS) transaction program DFHZLS1 could not complete successfully. The error code X'*code*' is one of the following:

X'FB92'
The transaction was not started as an IC request with data or by an attach flow from a connected system. The insert *subcode* is the start code from XMIQ_START_CODE.

X'FB93'
The transaction was started with data, but no data was found.

X'FB94'
The transaction was started with data, but the data was not in the form of the correct parameter list.

X'FB95'
The transaction was started with the correct format parameter list, but the function code was invalid.

X'FB96'
The transaction was started by an attach from a connected system but there was no CNOS data.

X'FB97'
The transaction was started by an attach from a connected system but the associated data was not a CNOS command.

X'FB9E'
The transaction was started but CICS is shutting down and the z/OS Communications Server ACB is closed.

This may have occurred because a number of CLS1 tasks were started before shutdown was issued but are held up because CICS was at MAXTASK. During shutdown the z/OS Communications Server ACB was closed and this task was then started.

System action: CICS produces an exception trace, and except for in the case of an invalid start, a system dump is taken. The task terminates. Message DFHME0116 should be produced containing the symptom string for this problem.

User response: This depends on the error code as follows:

X'FB92'
The transaction was probably started by entering the transaction ID at a terminal. This is not allowed.

X'FB93'
Analyze the dump to determine why IC could not find the data.

X'FB94'
Analyze the dump to determine what the data was.

X'FB95'
Analyze the dump to determine what the data was.

X'FB96'
Analyze the dump to determine why no data was available.

X'FB97'
Analyze the dump to determine why the correct data was not sent with the attach.

X'FB9E'
No action to take.

Module: DFHZLS1

XMEOUT Parameters: *date, time, applid, tranid, sysid, X'code', X'subcode'*

Destination: CSNE

DFHZC0163 *date time applid termid* **User signed on successfully at termid** *termid* **following a persistent sessions restart.**

Explanation: CICS successfully signed on a user at termid *termid* following a persistent sessions restart.

System action: CICS continues.

User response: None.

Module: DFHZSGN

XMEOUT Parameters: *date, time,applid, termid, termid*

Destination: CSNE

DFHZC0164 *date time applid termid* **Terminal** *termid* **was timed out by CICS following a persistent sessions restart.**

Explanation: CICS attempted to sign on a user following a persistent sessions restart. The user could not be signed on because the RSTSIGNTIME value in the SIT had expired.

System action: CICS continues.

User response: The user is forced to sign on again.

Module: DFHZSGN

XMEOUT Parameters: *date, time,applid, termid, termid*

Destination: CSNE

DFHZC0165 *date time applid termid* **Termid** *termid* **was timed out after a multinode persistent sessions restart. The terminal has been signed off.**

Explanation: CICS signed off a user at termid *termid* following a multinode persistent sessions restart.

System action: CICS continues.

User response: None.

Module: DFHZSGN

XMEOUT Parameters: *date, time,applid, termid, termid*

Destination: CSNE

DFHZC0167 *date time applid termid* **An attempt to sign off a user at termid** *termid* **failed following a multinode persistent sessions restart. Response code** *rc1* **and reason code** *rc2* **were received.**

Explanation: CICS attempted to sign off a user at termid *termid* because of a signon timeout following a multinode persistent sessions restart. An exception or disaster response was received from the signon program DFHSNTU with one of the following reason codes:

Reason code	Explanation
002	There is no active ESM.
003	The ESM is not responding.
010	The terminal type is invalid for this operation.
017	The terminal has preset security.
019	Security is not active for this CICS.
022	The terminal is a surrogate terminal.
028	The ESM returned a response which was not recognized by the CICS security domain.
038	The signon program went into recovery following an ABEND.
048	The signon program detected a loop and went into recovery.
052	The signon program received a bad response from transaction manager.

System action: An AP exception trace with point ID FB9D is issued.

User response: Reason codes 002, 003, 019 and 028 indicate a problem with the ESM or the security domain. The remaining reason codes may indicate an internal error in CICS. Look for messages output earlier by the ESM or the security domain. If security was active when the problem occurred and there was no problem with the ESM or the security domain contact your IBM support center.

Module: DFHZSGN

XMEOUT Parameters: *date, time,applid, termid, termid, rc1, rc2*

Destination: CSNE

DFHZC0170I *applid* **CICS registered successfully to VTAM generic resource name** *grname***.**

Explanation: CICS has registered as a z/OS Communications Server generic resource in the group *grname*.

System action: CICS continues. It is now possible to log on using the generic resource name.

User response: None.

Module: DFHZGSL

XMEOUT Parameters: *applid, grname*

Destination: Console

DFHZC0171 *applid* **CICS registration as a VTAM generic resource in the group** *grname* **failed. VTAM return code:** *X'rc'*. **FDB2** *X'fd'*.

Explanation: CICS failed to register as a z/OS Communications Server generic resource in the group *grname*.

z/OS Communications Server returned a RTNCD,FDB2 of *rc,fd* in response to the SETLOGON OPTCD=GNAMEADD macro.

System action: An AP exception trace entry is output with trace point FB8E.

CICS continues without generic resource support.

User response: Use the *z/OS Communications Server programming manual* to determine the meaning of the RTNCD,FDB2 and the actions necessary to correct the problem.

When the problem has been corrected a further attempt may be made to register CICS as a generic resource by closing and reopening the z/OS Communications Server ACB.

Module: DFHZGSL

XMEOUT Parameters: *applid, grname,X'rc', X'fd'*

Destination: Console

DFHZC0172I *applid* **CICS deregistered successfully from VTAM generic resource name** *grname***.**

Explanation: CICS has deregistered from z/OS Communications Server generic resource group *grname*.

System action: None. CICS will not reregister to the generic resource until the z/OS Communications Server ACB has been closed and opened again.

User response: None.

Module: DFHZGSL

XMEOUT Parameters: *applid, grname*

Destination: Console

DFHZC0173 *applid* **CICS deregistration from VTAM generic resource name** *grname* **failed. VTAM return code:** *X'rc'*. **FDB2** *X'fd'*.

Explanation: CICS failed to deregister from z/OS Communications Server generic resource group *grname*.

z/OS Communications Server returned a RTNCD,FDB2 of *rc,fd* in response to the SETLOGON OPTCD=GNAMEDEL macro.

This may be due to a hardware failure in another part of the sysplex or to corruption of the TCT prefix causing CICS to attempt to deregister with the wrong name.

System action: An AP exception trace entry is output with a trace point of X'FB8E.

User response: Use the *VTAM Programming Manual* to determine the meaning of the register 15 and register 0 values output by VTAM. If the problem is not caused by use of the wrong version of z/OS Communications Server, you will need further assistance from IBM. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHZGLS

XMEOUT Parameters: *applid, grname,X'rc', X'fd'*

Destination: Console

DFHZC0174 *applid* **Control block initialization has failed. Generic resource registration or deregistration will not be attempted. Return codes** *r15*,*r0***.**

Explanation: A call to a z/OS Communications Server macro to initialize the node initialization block (NIB) before registering or deregistering as a z/OS Communications Server generic resource has failed.

A possible explanation is that the wrong level of z/OS Communications Server is being used.

System action: The values of register 15 and register 0 returned by z/OS Communications Server are output.

An exception trace is output with trace point X'FBED.

If registration was about to be attempted, CICS continues without generic resource support.

If deregistration was about to be attempted, ACB shutdown continues. z/OS Communications Server removes CICS as a member for the generic resource name when the ACB is closed.

User response: Use the *VTAM Programming Manual* to determine the meaning of the register 15 and register 0 values output by VTAM. If the problem is not caused by use of the wrong version of z/OS Communications Server, you will need further assistance from IBM. See Part 4 of the *CICS Problem Determination Guide* for

guidance on how to proceed.

Module: DFHZGLS

XMEOUT Parameters: *applid, r15,r0*

Destination: Console

DFHZC0175 *applid* **A value was specified for GRNAME but the assemble time or run time VTAM does not support generic resource registration.**

Explanation: A value was specified for the GRNAME system initialization parameter. This indicates that CICS is to register as a z/OS Communications Server generic resource. However, either DFHTCT*xx* was assembled against a release of z/OS Communications Server that cannot support generic resource registration, or CICS is running on a z/OS Communications Server earlier than release 4 version 2.

System action: CICS sets the generic resource name to blanks and continues without attempting generic resource registration.

User response: If you are running with ACF/Communications Server Release 4 Version 2 or higher, reassemble the TCT against this level of z/OS Communications Server in order to take advantage of CICS support for generic resource registration.

To prevent this message being issued when using an earlier release of z/OS Communications Server, do not specify a value for the GRNAME system initialization parameter.

Module: DFHZSLS

XMEOUT Parameter: *applid*

Destination: Console

DFHZC0176 *date time applid* **VTAM was unable to execute a CHANGE OPTCD=ENDAFFIN macro to end an affinity between this application, which is a member of generic resource** *grname***, and a remote LU with netid** *netid* **netname** *netname***. VTAM return code** *X'rc'***, FDB2:** *X'fd'***, R15:** *X'r15'***.**

Explanation: An attempt was made to end an affinity between this CICS, which is a member of generic resource *grname*, and a remote LU with netid *netid* and netname *netname* by means of a SET CONNECTION ENDAFFINITY or PERFORM ENDAFFINITY command. The attempt has failed because a problem with z/OS Communications Server prevented the z/OS Communications Server CHANGE OPTCD=ENDAFFINITY macro from being issued.

z/OS Communications Server has issued the return code-feedback (RTNCD,FDB2) X'*rc*,X'*fd* in response to the CHANGE OPTCD=ENDAFFINITY macro. R15 *r15* is the register 15 value returned by VTAM.

System action: Processing continues. z/OS Communications Server has made no attempt to end the affinity.

User response: See the *VTAM programming manual* for the meaning of the RTNCD,FDB2 and for guidance on correcting the problem.

When the problem has been corrected retry the command.

Module: DFHZGCH

XMEOUT Parameters: *date, time,applid, grname, netid, netname, X'rc', X'fd', X'r15'*

Destination: CSNE

DFHZC0177 *date time applid* **Connection** *sysid* **has created an affinity between this application, which is a member of generic resource** *grname***, and a remote LU with netid** *netid* **netname** *netname***.**

Explanation: A generic resource member has established an APPC synclevel 2, APPC limited resource, or LU6.1 connection with another LU. For connections of these types z/OS Communications Server creates affinities which are owned by CICS and have to be ended by the CICS operator using the SET CONNECTION ENDAFFINITY or PERFORM ENDAFFINITY command. The message is output whenever the connection is acquired but the affinity is not recreated for each acquire unless it has been ended in the meantime.

System action: Processing continues.

User response: None, but note that the affinity has to be ended before the partner LU can establish a connection with another generic resource member.

The affinity may be ended automatically by the connection quiesce transaction when the connection is released. However, it is not done if the system crashes or is shut down 'immediate' whilst the connection is still acquired.

Module: DFHZNAC

XMEOUT Parameters: *date, time,applid, sysid, grname, netid, netname*

Destination: CSNE

DFHZC0178 *date time applid* **An attempt to end an affinity between this application, which is a member of generic resource** *grname***, and a remote LU with netid** *netid* **netname** *netname* **was rejected by VTAM. VTAM return code:** *X'rc'***. FDB2:** *X'fd'***.**

Explanation: An attempt was made to end an affinity between this CICS, which is a member of generic

resource *grname*, and a remote LU with netid *netid* and netname *netname* using a SET CONNECTION ENDAFFINITY or PERFORM ENDAFFINITY command. The request has been rejected by VTAM.

z/OS Communications Server has issued the return code-feedback (RTNCD,FDB2) X'*rc*,X'*fd* in response to the CHANGE OPTCD=ENDAFFINITY macro.

System action: Processing continues.

User response: See the *VTAM programming manual* for the meaning of the RTNCD,FDB2 code and for guidance on correcting the problem.

When the problem has been corrected, retry the command if appropriate.

Module: DFHZGCH

XMEOUT Parameters: *date, time,applid, grname, netid, netname, X'rc', X'fd'*

Destination: CSNE

DFHZC0179I *date time applid* **Connection** *sysid* **netname** *netname* **is a link to generic resource** *grname* **member** *membername***.**

Explanation: A connection *sysid* from netname *netname* to generic resource *grname* has been established.

The message is issued once for each connection acquire.

System action: Processing continues.

User response: None.

Module: DFHZNAC

XMEOUT Parameters: *date, time,applid, sysid, netname, grname, membername*

Destination: CSNE

DFHZC0180 *date time applid* **An affinity between this application, which is a member of generic resource** *grname***, and a remote LU with netid** *netid* **netname** *netname* **has ended successfully.**

Explanation: z/OS Communications Server has responded positively to an attempt to end an affinity with remote LU netid *netid*, netname *netname*. The affinity was ended implicitly by the connection quiesce transaction when the connection was released or explicitly by a SET CONNECTION ENDAFFINITY or PERFORM ENDAFFINITY command.

System action: Processing continues. The remote LU can now establish a connection with a different generic resource member.

User response: None.

Module: DFHZGCH

XMEOUT Parameters: *date, time,applid, grname, netid, netname*

Destination: CSNE

DFHZC0181 *date time applid* **No affinity exists between this application, which is a member of generic resource** *grname***, and a remote LU with netid** *netid* **netname** *netname***. VTAM return code: X'14', FDB2: X'88'.**

Explanation: An unsuccessful attempt was made to end an affinity between this CICS, which is a member of generic resource *grname*, and a remote LU with netid *netid* and netname *netname* using a SET CONNECTION ENDAFFINITY or PERFORM ENDAFFINITY command. z/OS Communications Server has issued return code-feedback (RTNCD,FDB2) of X'14,X'88 in response to the CHANGE OPTCD=ENDAFFINITY macro indicating that no such affinity exists.

System action: Processing continues.

User response: Ensure that the values input to the SET CONNECTION ENDAFFINITY or PERFORM ENDAFFINITY command are correct.

Module: DFHZGCH

XMEOUT Parameters: *date, time,applid, grname, netid, netname*

Destination: CSNE

DFHZC0182 *date time applid* **VTAM was unable to execute an INQUIRE OPTCD=NQN macro to determine the network qualified netname of logical unit** *luname***. VTAM return code:** *X'rc'***, FDB2** *X'fd'***, R15:** *X'r15'***.**

Explanation: CICS has attempted to determine the network qualified netname of logical unit *luname*. The attempt has failed because a problem with z/OS Communications Server prevented the z/OS Communications Server INQUIRE OPTCD=NQN macro from being issued.

z/OS Communications Server has issued the return code-feedback (RTNCD,FDB2) X'*rc*,X'*fd* in response to the INQUIRE OPTCD=NQN macro.

R15 *r15* is the register 15 value returned by VTAM.

System action: The CICS component which requires the network qualified netname of the logical unit determines whether any further action is called for.

User response: See the *VTAM Programming* manual for the meaning of the RTNCD,FDB2 and for guidance on correcting the problem.

Module: DFHZGIN

XMEOUT Parameters: *date, time,applid, luname, X'rc', X'fd', X'r15'*

Destination: CSNE

DFHZC0183 *date time applid* **An attempt to determine the network qualified name of logical unit** *luname* **was rejected by VTAM. VTAM return code:** *X'rc'*. **FDB2:** *X'fd'*.

Explanation: CICS has attempted to determine the network qualified name of logical unit *luname*. The request has been rejected by VTAM.

z/OS Communications Server has issued the return code-feedback (RTNCD,FDB2) X'*rc*,X'*fd* in response to the INQUIRE OPTCD=NQN macro.

System action: The CICS component which requires the network qualified name of the logical unit decides whether further action is called for.

User response: See the *VTAM Programming* manual for the meaning of the RTNCD,FDB2 code and for guidance on correcting the problem.

Module: DFHZGIN

XMEOUT Parameters: *date, time,applid, luname, X'rc', X'fd'*

Destination: CSNE

DFHZC0184 *date time applid* **VTAM was unable to execute an INQUIRE OPTCD=SESSNAME macro to determine the member of generic resource set** *grname* **to which logical unit** *netid*.*luname* **is logged on. VTAM return code:** *X'rc'*, **FDB2:** *X'fd'*, **R15:** *X'r15'*.

Explanation: CICS has attempted to determine the member of a generic resource set *grname* to which logical unit *netid.luname* is logged on. The attempt has failed because a problem with z/OS Communications Server prevented the z/OS Communications Server INQUIRE OPTCD=SESSNAME macro from being issued.

z/OS Communications Server has issued the return code-feedback (RTNCD,FDB2) X'*rc*,X'*fd* in response to the INQUIRE OPTCD=NQN macro.

R15 *r15* is the register 15 value returned by VTAM.

System action: The CICS component which needs to know where the logical unit is logged on determines whether any further action is called for.

User response: See the *z/OS Communications Server Programming* manual for the meaning of the RTNCD,FDB2 and for guidance on correcting the problem.

Module: DFHZGIN

XMEOUT Parameters: *date, time,applid, grname, netid, luname, X'rc', X'fd', X'r15'*

Destination: CSNE

DFHZC0185 *date time applid* **An attempt to determine the member of generic resource set** *grname* **to which logical unit** *netid*.*luname* **is logged on was rejected by VTAM. VTAM return code:** *X'rc'*. **FDB2:** *X'fd'*.

Explanation: CICS has attempted to determine the member of generic resource set to which *grname* logical unit *netid.luname* is logged on. The request has been rejected by VTAM.

z/OS Communications Server has issued the return code-feedback (RTNCD,FDB2) X'*rc*,X'*fd* in response to the INQUIRE OPTCD=SESSNAME macro.

System action: The CICS component which requires the member name decides whether further action is called for.

User response: See the *VTAM Programming* manual for the meaning of the RTNCD,FDB2 code and for guidance on correcting the problem.

Module: DFHZGIN

XMEOUT Parameters: *date, time,applid, grname, netid, luname, X'rc', X'fd'*

Destination: CSNE

DFHZC0186 *date time applid* **Connection** *sysid* **which is a member of generic resource** *grname* **has a duplicate remote LU netname** *netname*. *sense* **((***instance***) Module name: {DFHZOPN})**

Explanation: Node *nodeid* attempted to log on to CICS but the logon is invalid.

The *nodeid* in the message always starts with the netname of the node attempting to connect to CICS. For some instances of the message resulting from an APPC log on, the modename of the session is concatenated to the netname with a dot separator. Since a string consisting of eight blanks is the default modename, this can lead to idiosyncratic formatting of the message.

If the message is issued by DFHZATA, CICS has failed in its attempt to autoinstall the terminal or connection.

The instance *instance* is one of the following

1 During the acquire process for a secondary session CICS attempted to add the membername of the partner to a table but this name already exists for a different generic resource connection.

2 During the acquire process for a secondary session CICS attempted to add the membername of the partner to a table but this name has just been used as the netname of a terminal by an install occurring at the same time as the install of this connection.

System action: The acquire of the connection continues.

User response: Use the instance number to determine why the netname already exists

1 Use the CEMT INQUIRE CONNECTION API to see which generic resource has the same membername.

Since this problem should not occur under normal circumstances, you may need further assistance from IBM.

2 Investigate why the LU name of the partner is the same as the LU name of a terminal and remove one of the definitions.

Module: DFHZOPN, DFHZOPN

XMEOUT Parameters: *date, time,applid, sysid, grname, netname, sense, instance, {1=DFHZOPN, 2=DFHZOPN}*

Destination: CSNE

DFHZC0187 *date time applid* **Reset of connection** *sysid* **failed following the ending of an affinity between this a pplication and a remote LU with generic resource name** *grname* **member name** *applid***. The connection was locked by task** *taskid***, transaction** *tranid***.**

Explanation: CICS has failed to reset connection *sysid* after an affinity was ended successfully. A lock was held by task *taskid*, transaction *tranid*.

System action: Processing continues but the state of the connection is undetermined.

User response: If appropriate, use the information in the message to find out why there was a lock on the connection. If the connection is left in a state where it cannot be acquired, delete and reinstall it.

Module: DFHZGCH

XMEOUT Parameters: *date, time,applid, sysid, grname, applid, taskid, tranid*

Destination: CSNE

DFHZC0199 CICS has recovered after a system failure. Execute recovery procedures. *{ Already signed on. | Please sign on.}*

Explanation: This message is sent to a terminal when the associated z/OS Communications Server session is successfully recovered following a persistent sessions restart of CICS.

This is the default message issued by CICS if RECOVNOTIFY(MESSAGE) is specified on the TYPETERM for a device (see the *CICS Resource Definition Guide*), or in the node error program (see the *CICS Customization Guide*). If RECOVNOTIFY(MESSAGE) is used, it is recommended that the CICS supplied sample mapset DFHXMSG be tailored to meet the installation recovery requirements.

System action: Processing continues.

User response: Sign on if required, and take any recovery actions required.

Module: DFHZNAC

Destination: Terminal End User

DFHZC0200 *applid* **An attempt by the COVR transaction to OPEN VTAM has failed with return code** *X'retcode'***; CICS will retry.**

Explanation: The COVR transaction has attempted an EXEC CICS SET VTAM OPEN, but the operation failed with the return code *retcode* from the OPEN ACB.

System action: CICS continues. The COVR transaction retries the operation every 5 seconds. This message is reissued every minute until the operation succeeds, or until 10 minutes has passed, in which case message DFHZC0201 is issued.

User response: Investigate the reason for z/OS Communications Server being unavailable. See the *VTAM Programming* manual for an explanation of the ACB return code.

Module: DFHZCOVR

XMEOUT Parameters: *applid, X'retcode'*

Destination: Console

DFHZC0201 *applid* **An attempt by the COVR transaction to OPEN VTAM has failed with return code** *X'retcode'***; the COVR transaction will terminate.**

Explanation: The COVR transaction has repeatedly attempted an EXEC CICS SET VTAM OPEN, but the operations have failed. The OPEN ACB has issued the return code *retcode*.

System action: CICS continues. The COVR transaction terminates and the SET VTAM OPEN is not retried.

User response: Investigate the reason for z/OS Communications Server being unavailable. See the *VTAM Programming* manual for an explanation of the ACB return code.

Module: DFHZCOVR

XMEOUT Parameters: *applid, X'retcode'*

Destination: Console

DFHZC2109E *date time applid* **Unexpected response from Recovery Manager following resynchronization of LU6.1 session** *termid* **with remote system** *sysid***.**

Explanation: Recovery manager was invoked during resynchronization of an LU6.1 session, but gave an unexpected response. This is due to an internal logic error.

System action: A system dump is taken unless dumps have been specifically suppressed in the dump table.

User response: You need further assistance from IBM to resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHZNAC

XMEOUT Parameters: *date, time,applid, termid, sysid*

Destination: CSNE

DFHZC2114E *date time applid termid tranid* **A SEND response failed during receive-any processing.** *sense* **((***instance***) Module name: {DFHZRAC})**

Explanation: A SEND response issued on a receive-any RPL failed, or was not accepted by VTAM.

For the meaning of *sense*, see message DFHZC2400.

System action: If a task is attached, it is abnormally terminated with a transaction dump. Message DFHME0116 should be produced containing the symptom string for this problem.

User response: A subsequent message in the log indicates the reasons for the failure. Refer to this message for further information and guidance.

Module: DFHZRAC

XMEOUT Parameters: *date, time,applid, termid, tranid, sense, instance, {1=DFHZRAC, 2=DFHZRAC}*

Destination: CSNE

DFHZC2115 *applid termid* **Potential CICS hang detected following a SEND to node** *netname***, CID** *X'cid'***. Investigation is required. ((***instance***) Module name: {DFHZRAC})**

Explanation: CICS has issued a z/OS Communications Server SEND macro to send a response but no notification has been received that the response has completed. Until this SEND operation completes, one of the limited number of receive-any RPLs remains unusable (the number of receive-any RPLs is defined by the RAPOOL system initialization parameter).

This is a serious condition. If all the receive-any RPLs become unusable in this way, CICS is unable to accept any new requests from VTAM. Similarly, a reduction in the number of available receive-any RPLs can adversely affect terminal performance and transaction throughput.

Additionally, while the RPL is hanging, a normal CICS shutdown might be unable to complete.

The CID is the 32-bit z/OS Communications Server communication identifier which was assigned when the session was established.

System action: CICS continues to monitor for the SEND operation to complete. Until this happens, CICS reissues this message at approximately three minute intervals.

User response: This problem is usually caused by a failure in the network which stops the SEND completing. Check the session and the associated logical unit to ensure that there is no error condition which stops z/OS Communications Server completing the SEND request.

Module: DFHZRAC

XMEOUT Parameters: *applid, termid,netname, X'cid', instance, {1=DFHZRAC}*

Destination: Console

DFHZC2116E *date time applid* **Resynchronization of LU6.1 session** *termid* **with remote system** *sysid* **failed.**

Explanation: Resynchronization of an LU6.1 session with a remote system has failed to complete for one of the following reasons

1. There is an apparent inconsistency between the sequence numbers in the two systems
2. There was a protocol error during the exchange of the sequence numbers
3. Neither system requested resynchronization, but there was a shunted unit of work associated with the session.

System action:

1. A system dump is taken unless dumps have been specifically suppressed in the dump table.
2. The TCTTE for the session on which the error occurred is printed. The local system's sequence numbers, and the numbers or responses received from the remote system can be found in the TCTTE.
3. The failure of resynchronization is reported to recovery manager. Recovery manager issues diagnostics relating to any unit of work affected by the failure.

User response:

1. Determine whether changes to data in the local and remote system are synchronized. Diagnostics issued by recovery manager will help you to do this. If necessary, take action to resynchronize the data.

2. Determine why the resynchronization failure happened. You will normally need assistance from IBM to do this. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHZRSY, DFHZSCX, DFHZSEX

XMEOUT Parameters: *date, time,applid, termid, sysid*

Destination: CSNE

DFHZC2117E *date time applid termid tranid* **Data received on pipeline session exceeds RAIA size. ((***instance***) Module name {DFHZRAC})**

Explanation: CICS has received data on a pipeline session which is larger than the initial I/O area allocated for the receive any RPL. The size of the receive any input area (RAIA) is specified on the RAMAX system initialization parameter.

System action: CICS ends the session which sent the data and marks it out of service. CICS will also attempt to abnormally terminate any running transactions which were initiated from this session.

User response: Increase the value of the RAMAX system initialization parameter so that it is at least equal to the largest RUSIZE (from the CINIT) specified for a pipeline session.

Module: DFHZRAC

XMEOUT Parameters: *date, time,applid, termid, tranid, instance, {1=DFHZRAC}*

Destination: CSNE

DFHZC2118 *applid* **Receive Any stall for netname** *netname***.**

Explanation: All the CICS Receive Any RPLs have been posted but the TCTTE for each one is waiting for a response from a z/OS Communications Server terminal or session. All the Receive Any RPLs have been stalled for 10 dispatches of the TCP task (CSTP). This message is produced for each session that is in this situation. A z/OS Communications Server session has not responded to a command such as BID or SHUTD sent by CICS. This is typically caused by a protocol error.

System action: CICS is NOT running with system initialization parameter RAPOOL=(n,n,FORCE) so CICS z/OS Communications Server activity is held up until one of the commands completes.

User response: Issue the z/OS Communications Server command V NET,INACT,ID=netname,I for one or more of the sessions indicated by *netname*, to try and free a Receive Any RPL. Note - if the sessions are LU6.2 then the above command will inactivate the partner APPLID to VTAM.

Investigate why the CICS terminal control commands that have caused the stall have not completed. If this is due to a protocol error from the partner or device, attempt to get the protocol error corrected.

Consider increasing the number of Receive Any RPLs specified in the RAPOOL System Initialization parameter. For instance, if you were using the old default of 2, increase this to the new default of 50.

If you still get this message after changing the RAPOOL value consider running CICS with system initialization parameter RAPOOL=(n,n,FORCE), which attempts to issue CLSDST for all the offending sessions or terminals and to re-issue the Receive Any RPLs.

Module: DFHZRAC

XMEOUT Parameters: *applid, netname*

Destination: Console

DFHZC2119E *date time applid termid tranid* **LUSTAT received on pipeline session incorrectly requests a definite response. ((***instance***) Module name: {DFHZRAC})**

Explanation: CICS has received data on a pipeline session that violates the pipeline protocol. An LUSTAT SENSE 08310000 'Device Powered Off' was received from the device requesting a definite response, but only EXC responses are allowed.

System action: CICS ends the session that sent the data and marks it out of service. CICS also attempts to abnormally terminate any running transactions initiated from this session.

User response: Determine why the pool pipeline terminal is violating the protocol.

Module: DFHZRAC

XMEOUT Parameters: *date, time,applid, termid, tranid, instance, {1=DFHZRAC}*

Destination: CSNE

DFHZC2300 *applid* **Recovery action requested for connection** *sysid***.**

Explanation: The XZIQUE global user exit program has been invoked by CICS because of a potential problem with the connection. The global user exit has used return code UERCAKLL indicating that throughput on the connection is abnormally low and some exceptional action is required. The poor performance of the connection can be caused by

- Poor response on the receiving end
- Increased load on the sending end.

The condition may be intermittent. Message DFHZC2301 may follow indicating that the connection has recovered.

This message may also occur when the XZIQUE global user exit is disabled but the connection has been at the QUEUELIMIT for MAXQTIME where both parameters are specified in the connection definition.

System action: CICS cancels all transactions which have outstanding queued requests to use the connection.

User response: Investigate the cause of the poor performance of the connection. Check the availability and condition of the connected system.

Module: DFHZISP

XMEOUT Parameters: *applid, sysid*

Destination: Console

DFHZC2301I *applid* **Connection** *sysid* **operating normally following recovery action.**

Explanation: Message DFHZC2300 has been issued for this connection. The connection has now recovered and is operating normally.

System action: Processing continues.

User response: None

Module: DFHZISP

XMEOUT Parameters: *applid, sysid*

Destination: Console

DFHZC2302 *applid* **SETLOGON start command rejected**

Explanation: CICS issues the SETLOGON START command after a successful OPEN z/OS Communications Server ACB. The SETLOGON START command is rejected in the following cases

- The CICS OPEN VTAM ACB was successful, but z/OS Communications Server subsequently terminated abnormally, or
- The CICS OPEN VTAM ACB was successful, but insufficient system storage was available to satisfy the SETLOGON START command, or
- The CICS OPEN VTAM ACB was successful, but z/OS Communications Server was subsequently terminated by a z/OS Communications Server HALT QUICK command.

System action: If the error occurs during CICS initialization, CICS abnormally terminates with a U2302 abend and a system dump.

If the error occurs as a result of a CEMT or EXEC CICS SET VTAM OPEN, CICS terminates the task abnormally with abend code ATC2 and a transaction dump, and the z/OS Communications Server ACB is closed.

User response: The z/OS Communications Server return code can be found in RTNCD-FDBK2 in the first RPL in the RA pool addressed from TCTVRVRA in the system dump or the transaction dump.

Use the *VTAM Programming* manual, (SC23-0115-3), to determine the cause of the error and the actions necessary to correct it.

After correcting the error, either reinitialize CICS (for abend U2302) or follow the suggestions documented for abend ATC2.

Module: DFHZSLS

XMEOUT Parameter: *applid*

Destination: Console

DFHZC2303 *applid* **No storage available when initiating RECEIVE-ANY's. Code:** *X'code'*

Explanation: While trying to acquire receive-any I/O areas, the SETLOGON START VTAM command found that storage was not available.

System action: CICS terminates with a dump. An exception entry *code* is made in the trace table.

A system dump is taken unless dumps have been specifically suppressed in the dump table.

Message DFHZC0133 is issued.

User response: Reduce the size of the RAMAX value in the system initialization table (SIT).

For further information, see the *CICS Performance Guide*.

Module: DFHZGRP

XMEOUT Parameters: *applid, X'code'*

Destination: Console

DFHZC2304 *applid* **RECEIVE-ANY command rejected. Code:** *X'code'*

Explanation: This message is issued when the ACB has been opened either during initialization or dynamic open. DFHZGRP was initiating the z/OS Communications Server RECEIVE-ANY's but z/OS Communications Server was short on storage or the z/OS Communications Server HALT QUICK command was issued.

System action: An exception entry *code* is made in the trace table.

A system dump is taken unless you have specifically suppressed dumps in the dump table.

If the error occurs during CICS initialization, CICS issues message DFHZC0133 and terminates.

If the error occurs as a result of a CEMT or EXEC CICS SET VTAM OPEN, CICS closes the z/OS Communications Server ACB.

User response: The z/OS Communications Server

return code can be found in RTNCD-FDBK2 in the RPL, which is either in the exception trace entry *code*, or in the RA pool addressed from TCTVRVRA in the system dump.

Use the *VTAM Programming* manual, (SC31-6436), to determine the cause of the error and the actions necessary to correct it.

After correcting the error, either reinitialize CICS or reopen the z/OS Communications Server ACB.

Module: DFHZGRP

XMEOUT Parameters: *applid, X'code'*

Destination: Console

DFHZC2305I *applid* **Termination of VTAM sessions beginning**

Explanation: Either CICS or z/OS Communications Server is being terminated, or a dynamic close of the z/OS Communications Server ACB has been requested.

System action: All CICS-z/OS Communications Server sessions are closed and the ACB is closed. If termination is not orderly, active transactions are abnormally terminated.

User response: When z/OS Communications Server is active, communication may be resumed by using the master terminal operator command CEMT SET VTAM OPEN.

Module: DFHZSHU

XMEOUT Parameter: *applid*

Destination: Console

DFHZC2307 *applid* **CICS VTAM ABNORMALLY QUIESCING (***modname***).**

Explanation: An RPL request has completed without a TCTTE token, for other than a z/OS Communications Server storage shortage.

System action: CICS performs a FORCECLOSE of the ACB.

CICS may produce this message twice as both module DFHZRAC and module DFHZSYX may detect the condition.

User response: When z/OS Communications Server has been restarted, issue a CEMT SET VTAM OPEN.

Module: DFHZRAC, DFHZSYX

Destination: Console

DFHZC2308 *applid* **TCP Task WAIT failed. Unexpected response from DSSR WAIT_OLDW call (RESPONSE** *X'xx'***, REASON** *X'yy'***).**

Explanation: The TCP task wait has failed. The TCP dispatcher module, DFHZDSP, has received an unexpected response, with response code X'*xx* and reason code X'*yy* from the DSSR WAIT_OLDW call.

System action: CICS abends with abend U1800 and a system dump is produced.

User response: Determine the cause of the TCP task wait failure. Investigate the dump in conjunction with any other accompanying error messages or exception trace entries which may have been issued by dispatcher domain.

Module: DFHZDSP

XMEOUT Parameters: *applid, X'xx',X'yy'*

Destination: Console

DFHZC2309 *applid* **Recovery action requested for connection** *sysid* **using mode group** *modename***.**

Explanation: The XZIQUE global user exit program has been invoked by CICS because of a potential problem with the connection. The global user exit has used return code UERCAKLM indicating that throughput on the connection is abnormally low and some exceptional action is required. The poor performance of the connection can be caused by

- Poor response on the receiving end
- Increased load on the sending end.

The condition may be intermittent. Message DFHZC2310 may follow indicating that the mode group has recovered.

System action: CICS cancels all transactions which have outstanding queued requests to use this mode group.

User response: Investigate the cause of the poor performance of the mode group. Check the availability and condition of the connected system.

Module: DFHZISP

XMEOUT Parameters: *applid, sysid,modename*

Destination: Console

DFHZC2310I *applid* **Connection** *sysid* **using mode group** *modename* **operating normally following recovery action.**

Explanation: Message DFHZC2309 has been issued for this mode group. The mode group has now recovered and is operating normally.

System action: Processing continues.

User response: None

Module: DFHZISP

XMEOUT Parameters: *applid, sysid,modename*

Destination: Console

DFHZC2312 * WELCOME TO CICS *****

Explanation: This is the CICS default good morning message for z/OS Communications Server LUs. It is displayed unless an alternative GMTEXT has been specified as a system initialization parameter, or the typeterm definition logon message (LOGONMSG) has been set to NO.

System action: Processing continues.

User response: None.

Module: DFHSIT

Destination: Terminal End User

DFHZC2316 *applid* **VTAM ACB is closed**

Explanation: CICS and z/OS Communications Server have been disconnected. This may be because
- CICS is terminating, or
- z/OS Communications Server is terminating, or
- The CICS master terminal operator has issued

```
SET VTAM {CLOSED|IMMCLOSE|FORCECLOSE}
```

System action: The z/OS Communications Server ACB is closed.

User response: If z/OS Communications Server has not terminated, connection with z/OS Communications Server can be reestablished by using master terminal operator commands.

Module: DFHZSHU

XMEOUT Parameter: *applid*

Destination: Console

DFHZC2318 *applid* **The autoinstall user program** *progname* **is not enabled. Module** *modname***.**

Explanation: While opening the z/OS Communications Server ACB, CICS found that no installed program definition exists for the autoinstall user-program *progname* specified in the SIT.

System action: Other processing continues.

User response: If you want to use autoinstall, produce an installed program definition for the autoinstall user-program *progname* specified in the SIT.

Module: DFHSIJ1, DFHZOPA

XMEOUT Parameters: *applid, progname, modname*

Destination: Console

DFHZC2319 *applid* **Unable to close VTAM ACB RC=***xx* **error code=***yy*

Explanation: The z/OS Communications Server ACB CLOSE request failed.

System action: CICS continues as if the ACB is closed. (It is not really closed.)

User response: Refer to the *VTAM Programming* manual for an explanation of the return and error codes.

The return code *xx* is the z/OS Communications Server return code in Register 15. The error code *yy* is the ACB error flag 'ACBERFLG'.

Module: DFHZSHU

XMEOUT Parameters: *applid, xx,yy*

Destination: Console

DFHZC2320 CORRUPTED TCTTE ADDRESS FOUND DURING SHUTDOWN.

Explanation: A DFHTC CTYPE=LOCATE macro has returned an error indication while shutting down VTAM. This implies that the TCTTE chain has been corrupted, possibly by an overlay of the table manager control blocks.

System action: CICS is abnormally terminated with a system dump.

User response: Investigate the dump to determine the cause of the problem.

Module: DFHZSHU

Destination: Console

DFHZC2350A *date time applid* **CICS Terminal Control shutdown threshold (***mm* **minutes) exceeded. Sessions still active:** *sesslist* **((***instance***) Module name: {DFHZSHU})**

Explanation: CICS' attempt to shut down the network has not been completed within the time period allowed. This time period, the terminal control shutdown wait threshold, is specified by the TCSWAIT system initialization parameter.

In the message, *mm* is the value of TCSWAIT, and *sesslist* is the z/OS Communications Server network names of the first 10 (if there are that many) hung z/OS Communications Server terminals.

System action: CICS issues this message to both the CSNE transient data queue and the operating system console. This message is issued to the operating system console with an MVS write to operator (WTO) message descriptor code of 2. This means that the message is held by the operating system (that is, it does not roll off the screen) until the operator deletes it. For each hung z/OS Communications Server session, message DFHZC2351 is also issued. DFHZC2351 gives further details of the session and is issued only to the CSNE transient data queue. CICS may attempt a FORCECLOSE on the session (see message DFHZC2351 for further details) but otherwise CICS terminal control shutdown continues as normal.

This message, DFHZC2350, is not processed by DFHZNAC (node abnormal condition program), so the condition cannot be intercepted by the installation's DFHZNEP (node error program). Note however that DFHZC2351 is processed by DFHZNAC and may be intercepted by the installation's DFHZNEP.

User response: Note the message, then delete it from the operating system console using the MVS CONTROL E (or K E) system command. See message DFHZC2351 for further guidance.

Module: DFHZSHU

XMEOUT Parameters: *date, time,applid, mm, sesslist, instance, {1=DFHZSHU}*

Destination: Console and Transient Data Queue CSNE

DFHZC2351 *date time applid termid netname* **Session still active after TC shutdown threshold expired. Reason:** *{01 Request in progress | 02 Task still active |03 Waiting for SHUTC | 04 Waiting for BIS |05 Waiting for UNBIND | 06 Waiting for RTR |07 BID in progress | 08 Other TC work pending | 99 Undetermined} sense* **((***instance***) Module name: {DFHZSHU}).**

Explanation: CICS' attempt to shut down the network has not been completed within the time period allowed. The time period, the terminal control shutdown wait threshold, is specified by the TCSWAIT system initialization parameter. This message is issued for each z/OS Communications Server terminal that is still active (not shut down) after the time period has expired.

In the message *termid* and *netname* are respectively, the CICS terminal identifier, and the z/OS Communications Server network name of the hung terminal. One of the following is also included in the message to indicate the reason for the hang

01 Request in progress

02 Task still active

03 Waiting for SHUTC

04 Waiting for BIS

05 Waiting for UNBIND

06 Waiting for RTR

07 BID in progress

08 Other TC work pending

99 Undetermined

System action: CICS may attempt a FORCECLOSE on the session but otherwise CICS terminal control shutdown continues normally. Whether CICS attempts a FORCECLOSE depends upon

- The coding of the TCSACTN system initialization parameter, and
- How the installation's DFHZNEP (node error program) handles this condition.

If either of the following conditions is true

- TCSACTN=UNBIND, and this action is not changed by DFHZNEP,
- TCSACTN=NONE, and this action is changed to FORCECLOSE (UNBIND) by DFHZNEP

CICS terminal control issues a z/OS Communications Server CLSDST and sends an SNA UNBIND command. If neither of the conditions is true, no special action is taken.

The first 10 terminals (if there are that many) reported by this message are also included in message DFHZC2350.

User response: Check the state of the terminal. Check whether the associated DFHZC3437 message includes CLSDST. If DFHZC3437 does not include CLSDST, or it does but the CLSDST still fails to complete, take appropriate action outside of CICS to shut down the terminal.

If after a reasonable interval, terminal control shutdown still fails to complete (message DFHZC2316 is not displayed), take one of the following actions

- FORCECLOSE the CICS/z/OS Communications Server ACB.
- Perform a CICS CEMT PERFORM SHUTDOWN IMMEDIATE.
- Cancel the CICS job from the operating system console.

Warning: Do not perform one of these actions unless there are no other suitable actions to take.

The reason why the terminal does not shutdown is more likely to be a problem with the terminal device or the network, than with CICS.

If messages DFHZC2350, DFHZC2351, and DFHZC2352 are issued too early or too late in the shutdown process, take appropriate steps to change the TCSWAIT system initialization parameter on future runs of CICS. Once CICS has initialized, TCSWAIT cannot be changed.

Module: DFHZSHU

XMEOUT Parameters: *date, time,applid, termid, netname, {1=01 Request in progress, 2=02 Task still active, 3=03 Waiting for SHUTC, 4=04 Waiting for BIS,5=05 Waiting for UNBIND, 6=06 Waiting for RTR, 7=07 BID in progress, 8=08 Other TC work pending,99=99 Undetermined}, sense, instance, {1=DFHZSHU}*

Destination: CSNE

DFHZC2352 *date time applid sysid netname* **Intersystem parallel connection still active after TC shutdown threshold expired. ((***instance***) Module** *{DFHZSHU}***).**

Explanation: CICS' attempt to shut down the network has not been completed within the time period allowed. The time period, the terminal control shutdown wait threshold, is specified by the TCSWAIT system initialization parameter. This message is issued for the first z/OS Communications Server intersystem parallel session in each connection (LU Type 6.1 and LU Type 6.2, but not LU Type 6.2 single-session APPC terminals) that is still active (not shut down) after the time period has expired.

In the message *sysid* and *netname* are respectively, the CICS system identifier and the z/OS Communications Server network name.

System action: If the TCSACTN=FORCE system initialization parameter has been specified CICS will attempt to force close the CICS z/OS Communications Server ACB, provided that CNOS close processing has completed for LU Type 6.2 parallel session connections, otherwise CICS terminal control shutdown continues as normal. This message is not processed by DFHZNAC (node abnormal condition program), so the condition cannot be intercepted by the installation's DFHZNEP (node error program). Parallel connections reported by this message are not included in message DFHZC2350.

User response: If the TCSACTN=FORCE system initialization parameter has not been specified, or has been specified but the z/OS Communications Server ACB still does not close, check the state of the connection. Take appropriate action outside of this CICS system to shut down the connection.

If messages DFHZC2350, DFHZC2351, and DFHZC2352 are issued too early or too late in the shutdown process, take appropriate steps to change the TCSWAIT system initialization parameter on future runs of CICS. Once CICS has initialized TCSWAIT cannot be changed.

Module: DFHZSHU

XMEOUT Parameters: *date, time,applid, sysid, netname, instance, {1=DFHZSHU}*

Destination: Console and Transient Data Queue CSNE

DFHZC2400E *date time applid termid tranid* **Error not supported.** *sense* **((***instance***) Module name: {DFHZSYX})**

Explanation: CICS received an unexpected error code from VTAM.

For the meaning of *sense*, see message DFHZC2400.

The *sense* data consists of three hexadecimal values –*xx yy zzzz*, where *xx* is the z/OS Communications Server sense information byte, *yy* is the z/OS Communications Server sense modifier byte, and *zzzz* represents two bytes of user sense information. The possible values of *xx* are as follows

xx	meaning
X'00'	User sense data only (see *zzzz*)
X'08'	Request reject
X'10'	Request error
X'20'	State error
X'40'	Request header (RH) usage error
X'80'	Path error

For the meaning of *yy*, see the *SNA Formats* manual.

System action: CICS terminates the session. If a task is attached, it is abnormally terminated with a transaction dump.

Message DFHME0116 should be produced containing the symptom string for this problem.

User response: Use the symptom string, and if necessary the transaction dump, to determine the source of the error.

Module: DFHZSYX

XMEOUT Parameters: *date, time, applid, termid, tranid, sense, instance, {1=DFHZSYX, 2=DFHZSYX, 3=DFHZSYX, 4=DFHZSYX, 5=DFHZSYX, 6=DFHZSYX, 7=DFHZSYX, 8=DFHZSYX, 9=DFHZSYX, 10=DFHZSYX}*

Destination: CSNE

DFHZC2401E *date time applid termid tranid* **RPL Active.** *sense* **((***instance***) Module name: {DFHZRVS | DFHZSDA | DFHZSDL | DFHZSDS | DFHZSES | DFHZSKR | DFHZRVL | DFHZSDR})**

Explanation: CICS attempted to request z/OS Communications Server services using a request parameter list (RPL) that is currently active.

For the meaning of *sense*, see message DFHZC2400.

System action: CICS terminates the session. If a task is attached, it is abnormally terminated with a transaction dump.

Message DFHME0116 should be produced containing the symptom string for this problem.

User response: Use the symptom string, and if necessary, the transaction dump to determine the source of the error.

Module: DFHZRVS, DFHZSDA, DFHZSDR, DFHZSDS, DFHZSES, DFHZSDL, DFHZRVL, DFHZSKR

XMEOUT Parameters: *date, time,applid, termid, tranid, sense, instance, {1=DFHZRVS, 2=DFHZSDA, 3=DFHZSDL, 4=DFHZSDS, 5=DFHZSES, 6=DFHZSKR, 7=DFHZRVL, 8=DFHZSDR, 9=DFHZRVL, 10=DFHZRVL, 11=DFHZRVL, 12=DFHZSDL}*

Destination: CSNE

DFHZC2402I *date time applid termid tranid netname* **VTAM has returned error on synchronous receive.** *sense* **((***instance***) Module name: {DFHZRAS})**

Explanation: z/OS Communications Server has indicated that a synchronous receive issued by DFHZRAS during receive-any slow-down processing did not complete successfully. This indicates a serious mismatch between CICS's view of the state of the session and that of VTAM.

For the meaning of *sense*, see message DFHZC2400.

System action: The request is ignored. CICS prints the associated session TCTTE on the CSNE transient data destination. The RPL returned by z/OS Communications Server is included in exception trace entry AP FCA2.

User response: Determine from the RPL in the exception trace why z/OS Communications Server raised the error.

Module: DFHZRAS

XMEOUT Parameters: *date, time,applid, termid, tranid, netname, sense, instance, {1=DFHZRAS}*

Destination: CSNE

DFHZC2403E *date time applid termid tranid* **Bind failure.** *sense* **((***instance***) Module name: {DFHZSYX})**

Explanation: An attempt to establish a session has failed. This could be because a physical path to the device could not be found, because the device does not exist or has been defined incorrectly, or because the device has rejected the bind.

For the meaning of *sense*, see message DFHZC2400.

If this is an LU62 or LU61 session and the partner LU has sent sense bytes of X'0835oooo and oooo is the offset of the NETNAME in the BIND, this indicates that the partner LU was unable to find a suitable session.

If the sense bytes are X'08010000, this may mean that the partner LU has failed to autoinstall a connection.

If the z/OS Communications Server RETURN CODE FEEDBACK is X'1018 then Generic Resourc is in use but the coupling facility is unavailable.

Instance 1 with sense code '0805' - If this system (TOR2) is a member of a generic resource (GR) and the partner (AOR) is not and an affinity already exists between another member (TOR1) of the same generic resource (GR) and the AOR then this indicates that it is not valid to acquire this connection. This message is normally accompanied by DFHZC2411 instance 36 for the equivalent sessions in the AOR. The DFHZC2411 message is saying that the AOR cannot find a connection defined with the real name of TOR2. The AOR connection is defined with the Generic Resource name of the TOR.

System action: Because communication cannot be established with a node, a z/OS Communications Server CLSDST macro is issued to release any control blocks previously built, and the node could be placed out of service.

User response: Use the z/OS Communications Server sense code given in the message to determine the cause of failure. If appropriate, ensure that the node name was included in the network control program/virtual storage (NCP/VS) generation deck and investigate for a possible bad communication line.

If the sense bytes were X'0835oooo (where oooo is the offset of the NETNAME in the BIND), the partner LU has been unable to find a suitable session. If the partner LU is CICS, look in the partner LU's log for DFHZC2411 and previous messages for the same session. This should give some indication as to why no session could be found.

If LU62 autoinstall is in use and the sense bytes were X'08010000 look in the partner LU's log for message DFHZC2411 and message DFHZC69xx which should indicate the reason for failure to autoinstall a connection.

If the z/OS Communications Server RETURN CODE FEEDBACK is X'1018: the logon can be retried once the coupling facility becomes available.

Instance 1 sense X'0805 - Determine if TOR2 was started intentionally with a different APPLID and the same Generic Resource name and if not, correct the problem. If it was and you need a connection between these two systems then you need to end the affinity between AOR and TOR1. The affinity can be ended by

1. Bring up TOR1, acquire the connection and release it or
2. bring up TOR1 and use ENDAFFIN via CEMT or EXEC CICS or
3. use a batch program described in 'Writing a batch program to end affinities' in the CICS Intercommunication Guide.

However, if the AOR is within the same sysplex as the TOR you should be using MRO connections rather than APPC - you then get no problems with affinities.

If the AOR is outside the sysplex and the connection is acquired from the TOR then you need to use a HUB as described in 'Using a HUB' in the CICS Intercommunication Guide to prevent two TORs from attempting to connect to one AOR using the generic resource name.

Alternatively you can change the AOR connection to address TOR2 by its real name as opposed to its generic resource name and always acquire the

connection from the AOR. This implies that you must not use AUTOCONNECT in the TOR connection.

You should release the connection as soon as possible.

Module: DFHZSYX

XMEOUT Parameters: *date, time,applid, termid, tranid, sense, instance, {1=DFHZSYX, 2=DFHZSYX}*

Destination: CSNE

DFHZC2404E *date time applid termid tranid* **VTAM Detected Logic Error.** *sense* **((***instance***) Module name {DFHZLEX})**

Explanation: z/OS Communications Server detected an error in a request. The request was either incomplete or not executable.

For the meaning of *sense*, see message DFHZC2400.

System action: CICS breaks communication with the node (CLSDST), abnormally terminates any attached task, places the node out of service and produces a transaction dump.

Message DFHME0116 should be produced containing the symptom string for this problem.

User response: Ensure that all application programs running concurrently have proper addressability, thereby avoiding alteration of CICS control blocks such as the TCTTE or the RPL. If this message occurs during normal system execution, you will need further assistance from IBM. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

This message may also occur if z/OS Communications Server is terminating. Under these conditions it is not a serious problem, and usually no response is necessary.

Module: DFHZLEX

XMEOUT Parameters: *date, time,applid, termid, tranid, sense, instance, {1=DFHZLEX, 2=DFHZLEX, 3=DFHZLEX, 4=DFHZLEX, 5=DFHZLEX, 6=DFHZLEX}*

Destination: CSNE

DFHZC2405E *date time applid termid tranid* **Node** *netname* **not activated.** *sense* **((***instance***) Module name: {DFHZSIM | DFHZSYX | DFHZSIX})**

Explanation: The node was not activated, or was deactivated by the network operator, or a generic resource affinity already exists with another system in the same generic resource.

Instance 6 - If the partner is a member of a generic resource (TOR2) and this system (AOR) is not and an affinity already exists between the AOR and another member of the same generic resource (TOR1) because TOR1 crashed, then z/OS Communications Server has indicated that you cannot acquire this connection.

For the meaning of *sense*, see message DFHZC2400.

System action: All outstanding SEND and RECEIVE requests are purged. If a task is attached, it is abnormally terminated with a transaction dump. A z/OS Communications Server CLSDST macro is issued to halt communication with the node, and internal LOGONs are prevented.

If this message is issued during takeover, the acquire is retried at intervals of 1, 2, 4 and 8 minutes after the first attempt. This allows time for sessions which require manual intervention before the acquire can succeed.

User response: Use the z/OS Communications Server VARY command to activate the node before using it in the network. Alternatively, for ISC with IMS, enable IMS for LOGONs.

It is possible that the node in question has previously been used as a generic APPLID (or in z/OS Communications Server terms – a USERVAR). Use the z/OS Communications Server operator command DISPLAY USERVAR to see if this is the case. If it is, you can use MODIFY USERVAR,OPTION=DELETE,ID=node to delete the USERVAR.

Instance 6 - Determine if TOR2 was started intentionally with a different APPLID and the same GR name and if not, correct the problem. If it was and you need a connection between these two systems then you need to end the affinity between the AOR and TOR1. The affinity can be ended by

1. Bring up TOR1, acquire the connection and release it cleanly or
2. Bring up TOR1 and use ENDAFFIN via CEMT or EXEC CICS or
3. Use a batch program described in 'Writing a batch program to end affinities' in the CICS Intercommunication Guide.

However, if the AOR is within the same sysplex as the TOR you should be using MRO connections rather than APPC - you then get no problems with affinities.

If the AOR is outside the sysplex and the connection is acquired from the TOR then you need to use a HUB as described in 'Using a HUB' in the CICS Intercommunication Guide to prevent two TORs from attempting to connect to one AOR using the generic resource name.

Alternatively you can change the AOR connection to address TOR2 by its real name as opposed to its generic resource name and always acquire the connection from the AOR. This implies that you must not use AUTOCONNECT in the TOR2 connection.

Module: DFHZSYX, DFHZSIX, DFHZSIM

XMEOUT Parameters: *date, time,applid, termid, tranid, netname, sense, instance, {1=DFHZSIM, 2=DFHZSIM,*

3=DFHZSIM, 4=DFHZSIM, 5=DFHZSIM, 6=DFHZSYX, 7=DFHZSYX, 8=DFHZSYX, 9=DFHZSIX, 10=DFHZSYX, 11=DFHZSYX}

Destination: CSNE

DFHZC2406E *date time applid termid tranid* **Terminate self command received.** *sense* **((***instance***) Module name {DFHZSYX})**

Explanation: The logical unit (LU) has requested termination of the session.

For the meaning of *sense*, see message DFHZC2400.

System action: The z/OS Communications Server CLSDST macro is issued to stop communications with the node. If a task is attached, it is abnormally terminated with a transaction dump.

User response: None.

Module: DFHZSYX

XMEOUT Parameters: *date, time,applid, termid, tranid, sense, instance, {1=DFHZSYX}*

Destination: CSNE

DFHZC2407E *date time applid termid tranid* **Permanent channel failure.** *sense* **((***instance***) Module name: {DFHZSYX})**

Explanation: Network Control Program/Virtual Storage (NCP/VS) was either shut down by the network operator or was abnormally terminated. Alternatively, there could have been a channel failure.

For the meaning of *sense*, see message DFHZC2400.

System action: Since communication with the logical unit was broken, the z/OS Communications Server CLSDST macro instruction is issued to release control blocks previously built by VTAM. If a task is attached, it is abnormally terminated with a transaction dump.

User response: Use the supplied dump to check for a possible NCP/VS or channel problem.

Module: DFHZSYX

XMEOUT Parameters: *date, time,applid, termid, tranid, sense, instance, {1=DFHZSYX, 2=DFHZSYX}*

Destination: CSNE

DFHZC2408E *date time applid termid tranid* **Apparent VTAM Error.** *sense* **((***instance***) Module name: {DFHZSYX})**

Explanation: z/OS Communications Server encountered an error during its own processing.

For the meaning of *sense*, see message DFHZC2400.

System action: If a task is attached, it is abnormally terminated with a transaction dump. The node is placed out of service.

Message DFHME0116 should be produced containing the symptom string for this problem.

User response: Use the sense data to determine the nature of the error.

Module: DFHZSYX

XMEOUT Parameters: *date, time,applid, termid, tranid, sense, instance, {1=DFHZSYX, 2=DFHZSYX, 3=DFHZSYX, 4=DFHZSYX}*

Destination: CSNE

DFHZC2409I *date time applid termid tranid* **VTAM Recovered Node. LOSTERM Error Code** *X'xx'***.** *sense* **((***instance***) Module name: {DFHZLTX})**

Explanation: z/OS Communications Server successfully reestablished communication with a node. The reason for entering the LOSTERM exit is given by *xx*, which has one of the following values

Value	Meaning
0	Dial-disconnect on dial-in.
4	Dial-disconnect on dial-out.
0C	Deactivate immediate.
14	Unconditional terminate self.
1C	Segmenting error.
20	Conditional terminate self.
24	BUFLIM value exceeded.

For the meaning of *sense*, see message DFHZC2400.

System action: CICS reestablishes communication and places the node in service.

User response: None.

Module: DFHZLTX

XMEOUT Parameters: *date, time,applid, termid, tranid, X'xx', sense, instance, {1=DFHZLTX, 2=DFHZLTX}*

Destination: CSNE

DFHZC2410E *date time applid termid tranid* **Node Unrecoverable. VTAM LOSTERM Error Code** *X'xx'***.** *sense* **((***instance***) Module name: {DFHZLTX})**

Explanation: Communication with a node was interrupted and cannot be reestablished by VTAM. The reason for entering the LOSTERM exit is given by the error code X'*xx*.

For the meaning of *sense*, see message DFHZC2400.

System action: The z/OS Communications Server CLSDST macro is issued to release any control blocks previously built for the node. If a task is attached, it is

abnormally terminated with a transaction dump.

User response: See the appropriate *VTAM Programming* manual for an explanation of the error code.

Module: DFHZLTX

XMEOUT Parameters: *date, time,applid, termid, tranid, X'xx', sense, instance, {1=DFHZLTX, 2=DFHZLTX, 3=DFHZLTX, 4=DFHZLTX}*

Destination: CSNE

DFHZC2411E *date time applid termid tranid nodeid* **attempted invalid logon.** *sense* **((***instance***) Module name: {DFHZSCX | DFHZBLX | DFHZATA | DFHZLGX | RESERVE | DFHTFP})**

Explanation: Node *nodeid* attempted to log on to CICS but the logon is invalid.

The *nodeid* in the message will always start with the 'netname' of the node attempting to connect to CICS. For some instances of the message resulting from an LU6.2 log on, the modename of the session will be concatenated to the 'netname' with a dot separator. Since a string consisting of eight blanks is the default modename, this can lead to idiosyncratic formatting of the message.

If the message is issued by DFHZATA, CICS has failed in its attempt to autoinstall the terminal or connection.

The instance *instance* is one of the following

1 For LU6.1 no suitable TCTTE can be found, or no session TCTTE exists This could occur for one of the following reasons

1. The bind did not contain a modename.
2. There is an RDO definition for a member name connection in a generic resource communicating with another generic resource over an LU6.1 link.

2 No PLUNAME has been found in the LU6.2 bind processed by CICS.

3 An attempt to autoinstall a member name connection in a generic resource system has failed because the bind was not for an SNA service manager.

4 Autoinstall is not allowed because the system is terminating.

5 Autoinstall is not allowed because the z/OS Communications Server ACB is closing.

6 ISC support is not present because ISC=NO specified in the SIT.

7 Used by DFHZATA for several reasons, for example BIND bad and user exit bad.

8 The TCTTE address restored and the address found by NIBSEARCH do not agree.

9 The system is terminating.

10 z/OS Communications Server is terminating.

11 RESERVED.

12 RESERVED.

13 No address is present in the RPL.

14 LU6.1 cannot autoinstall.

If both CICS systems are registered as different generic resources, the LU61 connections must be defined with each other's generic resource netnames; they cannot communicate by member name. In this case CICS looked for the generic resource netname and was unable to find it.

15 ISC support is not present.

16 A CINIT arrived for an APPC parallel session. This is not supported All input for an APPC parallel session should be via a BIND. Also, no connection exists with this NETNAME.

17 Session is not bound.

18 Not used.

19 LU is not enabled. Typically it is an XRF alternate CICS.

20 A second CINIT with the same netname has arrived.

21 Logon rejected due to CATA abend.

22 A CINIT initiated by SIMLOGON occurred for an APPC paralled session. A matching connection exists, but it is being deleted. This should not occur because either the delete should have been cancelled (if it had been scheduled but not started) or the SIMLOGON should have been queued until the delete was attempted and fails because there is SIMLOGON activity.

23 A BIND was received for an LU6.1 connection. This CICS is registered as a generic resource but the partner addressed CICS by its MEMBER name instead of its generic resource name.

Change the partner's connection definition for this system to use a NETNAME of this system's generic resource name.

24 Not used.

25 A CINIT was received for an LU6.1 connection. This CICS is registered as a generic resource but the partner addressed CICS by its MEMBER name instead of its generic resource name.

Change the partner's connection definition for this system to use a NETNAME of this system's generic resource name.

26 A BIND was received for an LU6.1 connection. This CICS is registered as the same generic resource as the partner. However, the partner addressed CICS by the generic resource name instead of the member name which it should use for intra-plex communication.

Change the partner's connection definition for this system to use a NETNAME of this system's member name.

27 A CINIT was received for an LU6.1 connection. This CICS is registered as the same generic resource as the partner. However, the partner addressed CICS by the generic resource name rather than the member name which it should use for intra-plex communication.

Change the partner's connection definition for this system to use a NETNAME of this system's member name.

28 An LU62 bind was received for the netname specified. CICS has found a connection with the relevant netname but the connection was not defined as APPC.

29 A system entry for the connection indicated by the bind has been found but none of its sessions are usable.

30 No modename field UDSS02 was found in the bind.

31 Examination of the session tctte has indicated it to be out of service, a non-SNA service manager session and to have the associated connection released.

32 An attempt to autoinstall a GR name or XRF connection has failed because the bind was not for an SNA service manager.

33 This bind is an SNA service manager request for an existing partner.

34 There is a problem with the user data supplied in the bind. Specifically one of the following.

- There is no user data.
- The user data supplied is too short.
- The user data is not architected.

35 A delete is pending for the connection found. This delete is for a non-transient terminal definition and has been requested explicitly.

36 For a non-generic resource request, examination of the bind has indicated that it is not for an SNA service manager.

This instance also indicates that you should not acquire this connection if the partner is a member of a generic resource, and this system is not, and an affinity already exists between this system and another member of the same generic resource. See message DFHZC2403, which is issued for the partner's equivalent sessions, for how you correct the situation.

37 The current session count has exceeded the maximum session count indicated in the mode group entry.

This can be caused by a z/OS Communications Server LU definition with a duplicate netname. At session initiation time z/OS Communications Server cannot detect that there may be two Independant Logical Units (ILUs) with the same netname. This can lead to CICS being requested to bind more sessions than specified in the mode group.

38 An attempt to acquire a generic resource connection failed because there is a member name connection defined for the generic resource member to which z/OS Communications Server has chosen to route it.

39 This CICS has deregistered from a generic resource but a remote partner is attempting to bind an APPC session using a generic resource name. This indicates that z/OS Communications Server affinities have not been ended on both sides.

40 This CICS has deregistered from a generic resource but a remote partner is attempting to bind an LU6.1 session using a generic resource name. This indicates that z/OS Communications Server affinities have not been ended on both sides.

41 A bind has been received for an APPC SNA Service Manager session while the connection is in the process of being released. As the maximum number of SNASVCMG sessions has already been set to zero, acceptance of this bind would leave the connection in a Freeing state and is therefore rejected. Retry the Acquire of the connection when all the user sessions have been CLSDST and the connection is released.

For the meaning of *sense*, see message DFHZC2400.

If ???????? is displayed in the second half of the *nodeid* field, the BIND may contain a SESSION QUALIFIER or MODENAME with an invalid length.

System action: The logon is rejected. If the reject is from DFHZSCX via the dummy TCTTE, an attempt is made to print the failing BIND and sense code with which it was rejected as part of the message.

User response: Use the instance number to determine why the attempted logon has been rejected and take the appropriate action.

Module: DFHZLGX, DFHZSCX, DFHZATA, DFHZBLX

XMEOUT Parameters: *date, time, applid, termid, tranid, nodeid, sense, instance, {1=DFHZSCX, 2=DFHZBLX, 3=DFHZBLX, 4=DFHZBLX, 5=DFHZBLX, 6=DFHZBLX, 7=DFHZATA, 8=DFHZLGX, 9=DFHZLGX, 10=DFHZLGX, 11=DFHZSCX, 12=RESERVE, 13=DFHZLGX, 14=DFHZLGX, 15=DFHZLGX, 16=DFHZLGX, 17=DFHZLGX, 18=DFHZLGX, 19=DFHZLGX, 20=DFHZLGX, 21=DFHTFP, 22=DFHZLGX, 23=DFHZSCX, 24=DFHZLGX, 25=DFHZLGX, 26=DFHZSCX, 27=DFHZLGX, 28=DFHZBLX, 29=DFHZBLX, 30=DFHZBLX, 31=DFHZBLX, 32=DFHZBLX, 33=DFHZBLX, 34=DFHZBLX, 35=DFHZBLX, 36=DFHZBLX, 37=DFHZBLX, 38=DFHZLGX, 39=DFHZBLX, 40=DFHZSCX, 41=DFHZBLX}*

Destination: CSNE

DFHZC2412E *date time applid termid tranid* **Receive any request failed.** *sense* **((***instance***) Module name {DFHZRAC})**

Explanation: A receive-any request to z/OS Communications Server failed. z/OS Communications Server was terminated.

For the meaning of *sense*, see message DFHZC2400.

System action: The z/OS Communications Server RPL control block is logged to the CSMT log for visual inspection.

Message DFHME0116 should be produced containing the symptom string for this problem.

User response: Determine the reason why the receive-any failed. First, check to see if the z/OS Communications Server RPL has been altered. If it has been altered, check to see if the alterations could have caused any problems. Correct any obvious errors. It may be useful to refer to the *VTAM Programming* manual, (SC23-0115), during problem determination.

Module: DFHZRAC

XMEOUT Parameters: *date, time,applid, termid, tranid, sense, instance, {1=DFHZRAC, 2=DFHZRAC}*

Destination: CSNE

DFHZC2413E *date time applid termid tranid nodeid* **CLSDST failed.** *sense* **((***instance***) Module name {DFHZATA | DFHZLGX | DFHTFP})**

Explanation: A CLSDST request for the node identified by *nodeid* failed. z/OS Communications Server may not have sufficient space to respond to the request.

For the meaning of *sense*, see message DFHZC2400.

System action: No further communication with the node is initiated.

User response: Inspect the CSNE, CSMT and CSTL logs for indication of a z/OS Communications Server storage problem or error message. Also check for any messages indicating an I/O problem.

Module: DFHTFP, DFHZATA, DFHZLGX

XMEOUT Parameters: *date, time,applid, termid, tranid, nodeid, sense, instance, {1=DFHZATA, 2=DFHZLGX, 3=DFHTFP}*

Destination: CSNE

DFHZC2414E *date time applid termid tranid* **Temporary VTAM Storage Problem.** *sense* **((***instance***) Module name {DFHZSYX})**

Explanation: Temporary z/OS Communications Server storage problem. z/OS Communications Server is currently short of storage.

For the meaning of *sense*, see message DFHZC2400.

System action: The failing z/OS Communications Server request is retried until z/OS Communications Server is able to accept it.

User response: Increase the z/OS Communications Server working buffer storage if this condition recurs and causes undue problems.

Module: DFHZSYX

XMEOUT Parameters: *date, time,applid, termid, tranid, sense, instance, {1=DFHZSYX}*

Destination: CSNE

DFHZC2415E *date time applid termid tranid* **Node** *netname* **out of service.** *sense* **((***instance***) Module name: {DFHZNAC})**

Explanation: A node error condition has occurred on node *nodeid*.

For the meaning of *sense*, see message DFHZC2400.

System action: CICS places the node out of service.

User response: Use the sense data to determine the nature of the error.

Module: DFHZNAC

XMEOUT Parameters: *date, time,applid, termid, tranid, netname, sense, instance, {1=DFHZNAC}*

Destination: CSNE

DFHZC2416E *date time applid termid tranid* **VTAM is halting.** *sense* **((***instance***) Module name: {DFHZSYX})**

Explanation: A z/OS Communications Server HALT command was entered by the network operator while a

SIMLOGON or OPNDST request was in progress. The instance number indicates what type of halt was requested

1 Orderly shutdown
2 Quick shutdown.

For the meaning of *sense*, see message DFHZC2400.

System action: The z/OS Communications Server network is quiesced to prevent further requests and the node is placed out of service.

User response: None.

Module: DFHZSYX

XMEOUT Parameters: *date, time,applid, termid, tranid, sense, instance, {1=DFHZSYX, 2=DFHZSYX}*

Destination: CSNE

DFHZC2417E *date time applid termid tranid* **VTAM Inactive to TCB.** *sense* **((***instance***) Module name: {DFHZOPX | DFHZCLS | DFHZOPN | DFHZRLP | DFHZRST | DFHZRVS | DFHZRVX | DFHZSDA | DFHZSDL | DFHZSDS | DFHZSES | DFHZSIM | DFHZSKR | DFHZSLX | DFHZRAC | DFHZCLX | DFHZRVL | DFHZSDR | DFHZSIX | DFHZTAX | DFHZSYX})**

Explanation: Either CICS has not opened its z/OS Communications Server ACB or z/OS Communications Server has halted.

For the meaning of *sense*, see message DFHZC2400.

System action: The z/OS Communications Server network is quiesced to prevent further requests and a dump is produced.

User response: If z/OS Communications Server was not halted by the network operator, use the supplied dump to determine the problem.

Module: DFHZSYX, DFHZCLS, DFHZCLX, DFHZOPN, DFHZOPX, DFHZRAC, DFHZRLP, DFHZRST, DFHZRVL, DFHZRVS, DFHZRVX, DFHZSDL, DFHZSDR, DFHZSDS, DFHZSES, DFHZSIM, DFHZSIX, DFHZSKR, DFHZSLX, DFHZTAX, DFHZSDA

XMEOUT Parameters: *date, time,applid, termid, tranid, sense, instance, {1=DFHZOPX, 2=DFHZCLS, 3=DFHZOPN, 4=DFHZRLP, 5=DFHZRST, 6=DFHZRVS, 7=DFHZRVX, 8=DFHZSDA, 9=DFHZSDL, 10=DFHZSDS, 11=DFHZSES, 12=DFHZSIM, 13=DFHZSKR, 14=DFHZSLX, 15=DFHZRAC, 16=DFHZCLX, 17=DFHZRVL, 18=DFHZSDR, 19=DFHZSIX, 20=DFHZTAX, 21=DFHZOPX, 22=DFHZSYX}*

Destination: CSNE

DFHZC2418E *date time applid termid tranid* **Unknown command in RPL.** *sense* **((***instance***) Module name: {DFHZSEX})**

Explanation: An unknown command was detected in the z/OS Communications Server request parameter list (RPL) by the CICS SESSIONC exit routine. The RPL address could be invalid or the RPL could have been altered.

For the meaning of *sense*, see message DFHZC2400.

System action: All outstanding send and receive requests are purged. If a task is attached, it is abnormally terminated with a transaction dump.

Message DFHME0116 should be produced containing the symptom string for this problem.

A CLSDST is issued to halt communication with the node, and the node is placed out of service.

User response: First, check if the z/OS Communications Server RPL has an invalid address. If the address is valid, check to see if the RPL has been altered. If it has been altered, check to see if the alterations could have caused any problems. Correct any obvious errors. It may be useful to refer to the *VTAM Programming* manual, (SC23-0115), while carrying out problem determination.

Module: DFHZSEX

XMEOUT Parameters: *date, time,applid, termid, tranid, sense, instance, {1=DFHZSEX, 2=DFHZSEX}*

Destination: CSNE

DFHZC2419E *date time applid termid tranid* **Unknown command in RPL.** *sense* **((***instance***) Module name: {DFHZSSX | DFHZSLX | DFHZRAC})**

Explanation: An unknown command was detected in the request parameter list (RPL) by the send-data-flow synchronous exit routine. The RPL address could be invalid or the RPL could have been altered.

For the meaning of *sense*, see message DFHZC2400.

System action: All outstanding send and receive requests are purged. If a task is attached, it is abnormally terminated with a transaction dump.

Message DFHME0116 should be produced containing the symptom string for this problem.

A z/OS Communications Server CLSDST macro is issued to halt communication with the node, and the node is placed out of service.

User response: In the first instance, check if the z/OS Communications Server RPL has an invalid address. If the address is valid, check to see if the RPL has been altered. If it has been altered, check to see if the alterations could have caused any problems. Correct any obvious errors. It may be useful to refer to the

VTAM Programming manual, (SC23-0115-3), while carrying out problem determination.

Module: DFHZSSX, DFHZSLX, DFHZRAC

XMEOUT Parameters: *date, time,applid, termid, tranid, sense, instance, {1=DFHZSSX, 2=DFHZSLX, 3=DFHZRAC, 4=DFHZRAC, 5=DFHZRAC, 6=DFHZRAC, 7=DFHZRAC, 8=DFHZRAC}*

Destination: CSNE

DFHZC2420E *date time applid termid tranid* **Unknown command in RPL.** *sense* **((***instance***) Module name: {DFHZSAX})**

Explanation: An unknown command was detected in the request parameter list (RPL) by the send-data-flow asynchronous exit routine. The RPL address could be invalid or the RPL could have been altered.

For the meaning of *sense*, see message DFHZC2400.

System action: All outstanding send and receive requests are purged. If a task is attached, it is abnormally terminated with a transaction dump.

Message DFHME0116 should be produced containing the symptom string for this problem.

A z/OS Communications Server CLSDST macro is issued to halt communication with the node, and the node is placed out of service.

User response: In the first instance, check if the z/OS Communications Server RPL has an invalid address. If the address is valid, check to see if the RPL has been altered. If it has been altered, check to see if the alterations could have caused any problems. Correct any obvious errors. It may be useful to refer to the *VTAM Programming* manual, (SC23-0115), while carrying out problem determination.

Module: DFHZSAX

XMEOUT Parameters: *date, time,applid, termid, tranid, sense, instance, {1=DFHZSAX}*

Destination: CSNE

DFHZC2421E *date time applid termid tranid* **Unsupported command received.** *sense* **((***instance***) Module name {DFHZRLP | DFHZRVX | DFHZRAC})**

Explanation: An unknown command or request was detected, or the RPL contains logical unit (LU) status.

For the meaning of *sense*, see message DFHZC2400.

System action: If an invalid command or request was detected, all outstanding send and receive requests are purged. If a task is attached, it is abnormally terminated with a transaction dump. A z/OS Communications Server CLSDST macro is issued to halt communication with the node.

For ISC sessions, this error may be caused by specifying incompatible session types at each node. (For example, SESSIONTYPE=SEND in one node and SESSIONTYPE=FASTRECV in the other node.)

If the RPL contains logical unit (LU) status, one of the following messages is issued: DFHZC2461, DFHZC2462, DFHZC2464, DFHZC2465, or DFHZC2466.

Message DFHME0116 should be produced containing the symptom string for this problem.

User response: An invalid command or request indicates inconsistencies or errors in the definitions of the named terminals/sessions in CICS, z/OS Communications Server or the connected system for LU6 sessions. Ensure that these definitions are consistent and correct for the device or session characteristics.

Module: DFHZRAC, DFHZRVX, DFHZRLP

XMEOUT Parameters: *date, time,applid, termid, tranid, sense, instance, {1=DFHZRLP, 2=DFHZRLP, 3=DFHZRVX, 4=DFHZRVX, 5=DFHZRAC, 6=DFHZRAC, 7=DFHZRAC, 8=DFHZRAC, 9=DFHZRAC}*

Destination: CSNE

DFHZC2422E *date time applid termid tranid* **ZCP Logic Error.** *sense* **((***instance***) Module name: {DFHZDET | DFHZSIM | DFHZERH | DFHZNAC | DFHZSDS | DFHZEV1 | DFHZOPN | DFHZRVS | DFHZSKR | DFHZSSX | DFHZSLX | DFHZRAC | DFHZARL | DFHZEV2})**

Explanation: During terminal processing, CICS detected an invalid internal state in DFHZCP.

Instance 1 of the message could be caused by a loss of data following a persistent sessions restart in a partner system. In this case, no logic error has occurred because any updates are backed out. This normally follows an AZCD for the same session and the message DFHZC0144 for the partner session.

For the meaning of *sense*, see message DFHZC2400.

System action: All outstanding send and receive requests are purged, and the task is abnormally terminated with a transaction dump. The node is placed out of service and the TCTTE, RPL, and action flags are logged to the CSMT destination for debugging purposes.

Message DFHME0116 should be produced containing the symptom string for this problem.

User response: Ensure that the application programs running concurrently do not alter the TCTTE. If the TCTTE is not being altered, use the dump to locate the source of the error.

It may be useful to examine the debugging data printed on the CSMT log for clues about what possibly went wrong.

Module: DFHZARL, DFHZDET, DFHZERH, DFHZEV1, DFHZEV2, DFHZOPN, DFHZRAC, DFHZRVS, DFHZSDS, DFHZSIM, DFHZSKR, DFHZSLX, DFHZNAC, DFHZSSX

XMEOUT Parameters: *date, time,applid, termid, tranid, sense, instance, {1=DFHZDET, 2=DFHZSIM, 3=DFHZSIM, 4=DFHZERH, 5=DFHZERH, 6=DFHZERH, 7=DFHZERH, 8=DFHZERH, 9=DFHZERH, 10=DFHZERH, 11=DFHZERH, 12=DFHZERH, 13=DFHZERH, 14=DFHZNAC, 15=DFHZERH, 16=DFHZERH, 17=DFHZERH, 18=DFHZERH, 19=DFHZSDS, 20=DFHZEV1, 21=DFHZEV1, 22=DFHZOPN, 23=DFHZOPN, 24=DFHZRVS, 25=DFHZRVS, 26=DFHZSKR, 27=DFHZSSX, 28=DFHZSLX, 29=DFHZSLX, 30=DFHZRAC, 31=DFHZRAC, 32=DFHZRAC, 33=DFHZRAC, 34=DFHZRAC, 35=DFHZRAC, 36=DFHZRAC, 37=DFHZRAC, 38=DFHZRAC, 39=DFHZARL, 40=DFHZARL, 41=DFHZEV2, 42=DFHZEV2, 43=DFHZRAC, 44=DFHZRAC, 45=DFHZOPN}*

Destination: CSNE

DFHZC2423E *date time applid termid tranid* **Attempted to send unsupported command.** *sense* **((***instance***) Module name {DFHZSDS})**

Explanation: A request to send data synchronously was incomplete. Possible reasons are as follows
1. The TCTTE was altered.
2. A logic error was encountered.
3. The TCTTE was inadvertently placed on the send-synchronous queue.

For the meaning of *sense*, see message DFHZC2400.

System action: All outstanding send and receive requests are purged. If a task is attached, it is abnormally terminated with a transaction dump. Communication with the node is terminated by issuing the z/OS Communications Server CLSDST macro instruction.

User response: For reasons 1 to 3 listed above, ensure that application programs running concurrently do not alter the TCTTE.

If you suspect a logic error (2), check that the z/OS Communications Server RPL has not been corrupted. If you still cannot resolve the problem, you will need further assistance from IBM. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHZSDS

XMEOUT Parameters: *date, time,applid, termid, tranid, sense, instance, {1=DFHZSDS}*

Destination: CSNE

DFHZC2424E *date time applid termid tranid* **SESSIONC command request invalid.** *sense* **((***instance***) Module name {DFHZSES | RESERVE})**

Explanation: A SESSIONC request is incomplete or invalid. Possible reasons are as follows
1. The TCTTE was altered.
2. The command request bits are incomplete. DFHZSES checks TCTEISDT for a Start Data Traffic (SDT) command, TCTEISTS for a Set and Test Sequence Number (STSN) command, and TCTEICLR for a CLEAR command. If it does not find any of these, DFHZSES causes the message to be issued.
3. The wrong request was queued to SESSIONC.

For the meaning of *sense*, see message DFHZC2400.

System action: All outstanding send and receive requests are purged. If a task is attached, it is abnormally terminated with a transaction dump.

Message DFHME0116 should be produced containing the symptom string for this problem.

Communication with the node is terminated by issuing the z/OS Communications Server CLSDST macro instruction.

User response: Ensure that application programs running concurrently do not alter the TCTTE.

If the TCTTE is not altered, check for conditions 2 or 3.

Module: DFHZSES

XMEOUT Parameters: *date, time,applid, termid, tranid, sense, instance, {1=DFHZSES, 2=DFHZSES, 3=RESERVE}*

Destination: CSNE

DFHZC2425E *date time applid termid tranid* **ASYNC command request invalid.** *sense* **((***instance***) Module name {DFHZSDA})**

Explanation: A request to send data asynchronously was incomplete or invalid. This condition can be caused by the TCTTE being altered.

For the meaning of *sense*, see message DFHZC2400.

System action: All outstanding send and receive requests are purged. If a task is attached, it is abnormally terminated with a transaction dump.

Message DFHME0116 should be produced containing the symptom string for this problem.

Communication with the node is terminated by issuing the z/OS Communications Server CLSDST macro instruction.

User response: Check the TCTTE. Ensure that

application programs running concurrently do not alter the TCTTE.

Module: DFHZSDA

XMEOUT Parameters: *date, time,applid, termid, tranid, sense, instance, {1=DFHZSDA, 2=DFHZSDA}*

Destination: CSNE

DFHZC2426 E *date time applid termid tranid* **Node Status Error. Node is out of service or receive only.** *sense* **((***instance***) Module name: {DFHZATT})**

Explanation: Input was received from a node identified either as output-only or as permanently out of service.

For the meaning of *sense*, see message DFHZC2400.

System action: All outstanding send and receive requests are purged. If a task is attached, it is abnormally terminated with a transaction dump.

User response: If the node is out of service, the master terminal operator should place the node back into service.

Module: DFHZATT

XMEOUT Parameters: *date, time,applid, termid, tranid, sense, instance, {1=DFHZATT, 2=DFHZATT, 3=DFHZATT}*

Destination: CSNE

DFHZC2427I *date time applid termid tranid* **NCP Restarted.** *sense* **((***instance***) Module name: {DFHZSYX})**

Explanation: Network Control Program/Virtual Storage (NCP/VS) has been restarted after failing during an OPNDST.

For the meaning of *sense*, see message DFHZC2400.

System action: The OPNDST request is reissued.

User response: None.

Module: DFHZSYX

XMEOUT Parameters: *date, time,applid, termid, tranid, sense, instance, {1=DFHZSYX}*

Destination: CSNE

DFHZC2428E *date time applid termid tranid* **Send DFSYN request incomplete.** *sense* **((***instance***) Module name: {DFHZSDS})**

Explanation: A send-synchronous request was issued without indicating that either a command or data was to be sent.

For the meaning of *sense*, see message DFHZC2400.

System action: All outstanding send and receive requests are purged. If a task is attached, it is abnormally terminated with a transaction dump.

Message DFHME0116 should be produced containing the symptom string for this problem.

User response: Check the z/OS Communications Server RPL for obvious errors. Ensure that application programs running concurrently do not alter the TCTTE. If the TCTTE is not being altered, use the symptom string, and if necessary, the dump to determine the source of the error.

Module: DFHZSDS

XMEOUT Parameters: *date, time,applid, termid, tranid, sense, instance, {1=DFHZSDS}*

Destination: CSNE

DFHZC2429E *date time applid termid tranid* **RESETSR request invalid RTYPE.** *sense* **((***instance***) Module name {DFHZRST})**

Explanation: An invalid RESETSR request was made in the z/OS Communications Server macro issued by CICS. The invalid request can be because an RTYPE was not specified or was incorrectly specified, or the TCTTE was altered.

For the meaning of *sense*, see message DFHZC2400.

System action: All outstanding receive requests are purged. If a task is attached, it is abnormally terminated with a transaction dump.

Message DFHME0116 should be produced containing the symptom string for this problem.

User response: Check the z/OS Communications Server RPL for obvious errors. Ensure that application programs running concurrently do not alter the TCTTE. If the TCTTE is not being altered, use the symptom string, and if necessary the dump, to determine the source of the error.

Module: DFHZRST

XMEOUT Parameters: *date, time,applid, termid, tranid, sense, instance, {1=DFHZRST, 2=DFHZRST, 3=DFHZRST}*

Destination: CSNE

DFHZC2430E *date time applid termid tranid* **Send response command request invalid.** *sense* **((***instance***) Module name: {DFHZSDR})**

Explanation: A send-response request was invalid. Either the request did not specify the response level (DR1 or DR2), or the TCTTE was altered.

For the meaning of *sense*, see message DFHZC2400.

System action: All outstanding send requests are purged. If a task is attached, it is abnormally

terminated with a transaction dump and the node is placed out of service.

User response: Check the z/OS Communications Server RPL for obvious errors. Ensure that application programs running concurrently do not alter the TCTTE. If the TCTTE is not being altered, use the dump to determine the source of the error.

Module: DFHZSDR

XMEOUT Parameters: *date, time,applid, termid, tranid, sense, instance, {1=DFHZSDR}*

Destination: CSNE

DFHZC2431E *date time applid termid tranid* **Request to a released node.** *sense* **((***instance***) Module name {DFHZSYX})**

Explanation: CICS requested z/OS Communications Server to perform a close destination for a node currently "owned" by CICS.

For the meaning of *sense*, see message DFHZC2400.

System action: If the CICS ACB is open, all outstanding requests are purged and the task is abnormally terminated with a transaction dump if a task is attached.

User response: If the CICS ACB is open, use the dump to determine the source of the error. Check that the TCTTE is valid.

Module: DFHZSYX

XMEOUT Parameters: *date, time,applid, termid, tranid, sense, instance, {1=DFHZSYX}*

Destination: CSNE

DFHZC2432E *date time applid termid tranid* **Exception response received.** *sense* **((***instance***) Module name: {DFHZRVX | DFHZSSX | DFHZRAC})**

Explanation: CICS has received an exception response.

For the meaning of *sense*, see message DFHZC2400.

System action: Another CICS message is issued in conjunction with this message.

User response: Perform the action specified for the associated CICS message.

Module: DFHZRAC, DFHZRVX, DFHZSSX

XMEOUT Parameters: *date, time,applid, termid, tranid, sense, instance, {1=DFHZRVX, 2=DFHZRVX, 3=DFHZRVX, 4=DFHZRVX, 5=DFHZRVX, 6=DFHZRVX, 7=DFHZRVX, 8=DFHZSSX, 9=DFHZSSX, 10=DFHZSSX, 11=DFHZSSX, 12=DFHZRAC, 13=DFHZRAC, 14=DFHZRAC, 15=DFHZRAC, 16=DFHZRAC, 17=DFHZRAC, 18=DFHZRAC, 19=DFHZRAC, 20=DFHZRAC, 21=DFHZRAC, 22=DFHZRAC, 23=DFHZRAC}*

Destination: CSNE

DFHZC2433E *date time applid termid tranid nodeid* **Logon has failed because autoinstall is disabled.** *sense* **((***instance***) Module name: {DFHZLGX | DFHZBLX})**

Explanation: Node *nodeid* attempted to log on to CICS. The logon has failed because autoinstall is disabled. Possible reasons are

- Autoinstall system initialization parameters have been incorrectly defined.
- An error has been detected in CICS terminal attach processing.
- The system is short on storage. Autoinstall is reenabled once the SOS condition ends.

System action: The logon is rejected.

User response: Ensure that the value for the AIQMAX system initialization parameter is greater than zero. If an autoinstall user program has been specified for system initialization parameter AIEXIT, check that the program name has been defined to CICS. See the *CICS System Definition Guide* for further information about autoinstall parameters.

If the system is short on storage, see the associated messages for further guidance.

Module: DFHZLGX, DFHZSCX, DFHZBLX

XMEOUT Parameters: *date, time,applid, termid, tranid, nodeid, sense, instance, {1=DFHZLGX, 2=DFHZLGX, 3=DFHZBLX, 4=DFHZBLX}*

Destination: CSNE

DFHZC2434E *date time applid termid tranid* **Invalid copy request - Copy not supported.** *sense* **((***instance***) Module name: {DFHZARQ})**

Explanation: A DFHTC TYPE=COPY request has been issued to a 3270 compatibility mode logical unit. The request is invalid because the 3270 COPY command is not supported by a 3270 compatibility mode logical unit.

For the meaning of *sense*, see message DFHZC2400.

System action: The task abends.

User response: Change the application program to avoid issuing a COPY request.

Module: DFHZARQ

XMEOUT Parameters: *date, time,applid, termid, tranid, sense, instance, {1=DFHZARQ}*

Destination: CSNE

DFHZC2435E *date time applid termid tranid* **RPL missing.** *sense* **((***instance***) Module name: {DFHZRVS})**

Explanation: CICS issued a receive-specific request z/OS Communications Server without specifying a request parameter list (RPL). This condition could result from one of the following reasons
- An RPL was not allocated
- An RPL was allocated, but later freed
- TCTERPLA was altered.

For the meaning of *sense*, see message DFHZC2400.

System action: All outstanding receive requests are purged. If a task is attached, it is abnormally terminated with a transaction dump. A CLSDST macro is issued to terminate communication with the node.

User response: Use the dump to determine whether the TCTTE was altered by an application program. If it was, correct the error. If the TCTTE has not been altered, check for potential RPL problems.

Module: DFHZRVS

XMEOUT Parameters: *date, time,applid, termid, tranid, sense, instance, {1=DFHZRVS}*

Destination: CSNE

DFHZC2436E *date time applid termid tranid* **TIOA missing.** *sense* **((***instance***) Module name: {DFHZRVS | DFHZRVX})**

Explanation: The TIOA was missing while a receive-specific request was being processed. This condition could result from the TIOA being freed or TCTTEDA being altered.

For the meaning of *sense*, see message DFHZC2400.

System action: All outstanding receive requests are purged. If a task is attached, it is abnormally terminated with a transaction dump.

User response: Use the dump to determine if the TCTTE was altered by an application program.

Module: DFHZRVS, DFHZRVX

XMEOUT Parameters: *date, time,applid, termid, tranid, sense, instance, {1=DFHZRVS, 2=DFHZRVX, 3=DFHZRVS}*

Destination: CSNE

DFHZC2437 E *date time applid termid tranid* **Invalid WRITE request to an input only device.** *sense* **((***instance***) Module name: {DFHZSDS})**

Explanation: An output request was issued to a z/OS Communications Server terminal that is defined as an input-only device. Either the TCTTETS was altered or a task that was attached issued a send request.

For the meaning of *sense*, see message DFHZC2400.

System action: All outstanding send requests are purged. If a task is attached, it is abnormally terminated with a transaction dump. The terminal status remains unchanged.

User response: Prevent the task from issuing an output request to the node.

Module: DFHZSDS

XMEOUT Parameters: *date, time,applid, termid, tranid, sense, instance, {1=DFHZSDS}*

Destination: CSNE

DFHZC2438 E *date time applid termid tranid* **Invalid READ request to an output only device.** *sense* **((***instance***) Module name: {DFHZRVS | DFHZSDS})**

Explanation: An input request was issued to a z/OS Communications Server terminal that is identified as an output-only device. Either the TCTTETS was altered or a task was attached that issued a read request.

For the meaning of *sense*, see message DFHZC2400.

System action: All outstanding receive requests are purged. If a task is attached, it is abnormally terminated with a transaction dump. The terminal status remains unchanged.

User response: Prevent the task from issuing input requests to the node.

Module: DFHZRVS, DFHZSDS

XMEOUT Parameters: *date, time,applid, termid, tranid, sense, instance, {1=DFHZRVS, 2=DFHZSDS}*

Destination: CSNE

DFHZC2439E *date time applid termid tranid* **Invalid RESUME request.** *sense* **((***instance***) Module name: {DFHZACT})**

Explanation: An invalid resume request was received. The CICS activate-scan function detected a resume request in a TCTTE, but the TCTTE was not part of any transaction.

For the meaning of *sense*, see message DFHZC2400.

System action: The TCTTE is printed and logged to the CSNE destination for debugging purposes.

Message DFHME0116 should be produced containing the symptom string for this problem.

User response: Use the symptom string to determine the cause of the problem. Check the TCTTE data printed and logged to the CSNE destination for obvious alterations and errors.

Module: DFHZACT

XMEOUT Parameters: *date, time,applid, termid, tranid,*

sense, instance, {1=DFHZACT}

Destination: CSNE

DFHZC2440I *date time applid termid tranid* **CICS quiesced by node.** *sense* **((***instance***) Module name: {DFHZASX})**

Explanation: A z/OS Communications Server logical unit has requested CICS to quiesce all I/O activity with that node.

For the meaning of *sense*, see message DFHZC2400.

System action: All data transmission to the node is halted until CICS receives a release-quiesce indicator.

User response: None.

Module: DFHZASX

XMEOUT Parameters: *date, time,applid, termid, tranid, sense, instance, {1=DFHZASX}*

Destination: CSNE

DFHZC2441I *date time applid termid tranid* **CICS released by node.** *sense* **((***instance***) Module name: {DFHZASX})**

Explanation: CICS received a release-quiesce indicator from a z/OS Communications Server logical unit that had previously quiesced CICS.

For the meaning of *sense*, see message DFHZC2400.

System action: Data transmission to the node is resumed by CICS.

User response: None.

Module: DFHZASX

XMEOUT Parameters: *date, time,applid, termid, tranid, sense, instance, {1=DFHZASX}*

Destination: CSNE

DFHZC2442E *date time applid termid tranid* **Exception response received to a definite response send.** *sense* **((***instance***) Module name: {DFHZRVX})**

Explanation: An exception response was received when a definite response protocol was requested.

For the meaning of *sense*, see message DFHZC2400.

System action: CICS issues a second message in conjunction with this message that explains the reason for the exception response.

User response: Perform the action specified for the second CICS message received.

Module: DFHZRVX

XMEOUT Parameters: *date, time,applid, termid, tranid, sense, instance, {1=DFHZRVX, 2=DFHZRVX}*

Destination: CSNE

DFHZC2443E *date time applid termid tranid* **Request outstanding when node released.** *sense* **((***instance***) Module name: {DFHZRVS | DFHZSDL | DFHZSDS | DFHZSHU | DFHZRVL})**

Explanation: CICS received a request from an application program, when its node was either not in session or queued to be CLSDSTed.

For the meaning of *sense*, see message DFHZC2400.

System action: All outstanding requests are ignored. If a task is attached, it is abnormally terminated with a transaction dump.

User response: None.

Module: DFHZSDS, DFHZRVL, DFHZRVS, DFHZSDL, DFHZSHU

XMEOUT Parameters: *date, time,applid, termid, tranid, sense, instance, {1=DFHZRVS, 2=DFHZSDL, 3=DFHZSDS, 4=DFHZSDS, 5=DFHZSDS, 6=DFHZSHU, 7=DFHZSHU, 8=DFHZRVL, 9=DFHZSHU}*

Destination: CSNE

DFHZC2444E *date time applid termid tranid* **CICS bracket state error.** *sense* **((***instance***) Module name: {DFHZRVS | DFHZSDS})**

Explanation: A CICS application program violated bracket protocol. It is possible that the application program issued an I/O request following a write (last) request.

For the meaning of *sense*, see message DFHZC2400.

System action: All outstanding send and receive requests are purged. If a task is attached, it is abnormally terminated with a transaction dump.

User response: Correct the application program.

Module: DFHZRVS, DFHZSDS

XMEOUT Parameters: *date, time,applid, termid, tranid, sense, instance, {1=DFHZRVS, 2=DFHZSDS}*

Destination: CSNE

DFHZC2445E *date time applid termid tranid* **Output area exceeded.** *sense* **((***instance***) Module name: {DFHZSDS})**

Explanation: The TIOA was not large enough to hold all the output data. The application program either set up the TIOA incorrectly or it overran the TIOA.

For the meaning of *sense*, see message DFHZC2400.

System action: All outstanding send requests are purged. If a task is attached, it is abnormally

terminated with a transaction dump.

User response: Correct the application program to acquire a larger TIOA.

Module: DFHZSDS

XMEOUT Parameters: *date, time,applid, termid, tranid, sense, instance, {1=DFHZSDS, 2=DFHZSDS}*

Destination: CSNE

DFHZC2446E *date time applid termid tranid* **Invalid response to a bid.** *sense* **((***instance***) Module name: {DFHZRVX | DFHZSSX | DFHZRAC})**

Explanation: An invalid response was received for a bid request. A normal response was received in response to a bid indicator while the transaction was in bracket state. The controller application program is in error.

For the meaning of *sense*, see message DFHZC2400.

System action: All outstanding requests are purged. If a task is attached, it is abnormally terminated with a transaction dump. Communication with the node is terminated by issuing a z/OS Communications Server CLSDST macro instruction, and the node is placed out of service.

User response: Correct the controller application program to return an exception response to a bid indicator when in the bracket state, followed by a ready-to-receive indicator when ready to honor the bid.

Module: DFHZRAC, DFHZRVX, DFHZSSX

XMEOUT Parameters: *date, time,applid, termid, tranid, sense, instance, {1=DFHZRVX, 2=DFHZSSX, 3=DFHZRAC}*

Destination: CSNE

DFHZC2447E *date time applid termid tranid* **A severe error has occurred as a result of a previous failure.** *sense* **((***instance***) Module name: {DFHZOPN | DFHZRVS | DFHZSDA | DFHZRAC | DFHZFRE | DFHZRLP | DFHZACT | DFHZGET})**

Explanation: A domain call failed and the response could not be handled by module *modname* because of a previous failure. The domain concerned should have issued a message to the console which gives further information about the failure.

For the meaning of *sense*, see message DFHZC2400.

System action: All outstanding send and receive requests for terminal *termid* are purged. If a task is attached, it is abnormally terminated with a transaction dump. Terminal *termid* is placed out of service and the TCTTE is logged to the CSNE destination.

User response: Refer to the message issued by the domain that is in error. It indicates the source of the original error.

Module: DFHZRAC, DFHZRVS, DFHZSDA, DFHZOPN, DFHZFRE, DFHZRLP, DFHZACT, DFHZGET

XMEOUT Parameters: *date, time,applid, termid, tranid, sense, instance, {1=DFHZOPN, 2=DFHZRVS, 3=DFHZSDA, 4=DFHZRAC, 5=DFHZRAC, 6=DFHZOPN, 7=DFHZOPN, 8=DFHZFRE, 9=DFHZRLP, 10=DFHZACT, 11=DFHZGET, 12=DFHZGET, 13=DFHZOPN}*

Destination: CSNE

DFHZC2448E *date time applid termid tranid* **Invalid response requested.** *sense* **((***instance***) Module name: {DFHZRVX | DFHZRAC})**

Explanation: An invalid response was requested. An application program transmitted data to CICS without requesting a response from CICS.

For the meaning of *sense*, see message DFHZC2400.

System action: All outstanding receive requests are purged. If a task is attached, it is abnormally terminated with a transaction dump. Communication with the node is terminated by issuing a z/OS Communications Server CLSDST macro, and the node is placed out of service.

User response: Correct the application program.

Module: DFHZRAC, DFHZRVX

XMEOUT Parameters: *date, time,applid, termid, tranid, sense, instance, {1=DFHZRVX, 2=DFHZRAC, 3=DFHZRAC}*

Destination: CSNE

DFHZC2449E *date time applid termid tranid* **Bracket Error.** *sense* **((***instance***) Module name: {DFHZRVX | DFHZRAC})**

Explanation: The application program either sent a begin-bracket indicator while the transaction was in bracket state, or sent an end-bracket indicator.

For the meaning of *sense*, see message DFHZC2400.

System action: If a task is attached, it is abnormally terminated with a transaction dump. Communication with the node is terminated by issuing the z/OS Communications Server CLSDST macro, and the node is placed out of service.

User response: Correct the application program.

Module: DFHZRAC, DFHZRVX

XMEOUT Parameters: *date, time,applid, termid, tranid, sense, instance, {1=DFHZRVX, 2=DFHZRVX, 3=DFHZRAC, 4=DFHZRAC}*

Destination: CSNE

DFHZC2450E *date time applid termid tranid* **Bid issued but ATI cancelled.** *sense* **((***instance***) Module name: {DFHZRVX | DFHZSSX | DFHZRAC})**

Explanation: An automatic task initiation (ATI) request was issued without an ATI pending for that terminal.

For the meaning of *sense*, see message DFHZC2400.

System action: CICS will satisfy the BB pending condition by sending a stand-alone BB-EB.

User response: If ATI is time-initiated, increase the timer value.

Module: DFHZRAC, DFHZRVX, DFHZSSX

XMEOUT Parameters: *date, time, applid, termid, tranid, sense, instance, {1=DFHZRVX, 2=DFHZRVX, 3=DFHZRVX, 4=DFHZSSX, 5=DFHZSSX, 6=DFHZSSX, 7=DFHZRAC, 8=DFHZRAC, 9=DFHZRAC}*

Destination: CSNE

DFHZC2451E *date time applid termid tranid* **Outstanding request when clear was issued.** *sense* **((***instance***) Module name: {DFHZSYX})**

Explanation: A request was outstanding when clear was issued. A receive-specific request was pending when a clear indicator was issued. A clear indicator is sent when any of the following occurs

- The logical unit is lost (LOSTERM).
- CICS issues a z/OS Communications Server CLSDST macro.
- CICS issues the clear during message resynchronization.

For the meaning of *sense*, see message DFHZC2400.

System action: All outstanding requests are purged. If a task is attached, it is abnormally terminated with a transaction dump.

User response: None.

Module: DFHZSYX

XMEOUT Parameters: *date, time,applid, termid, tranid, sense, instance, {1=DFHZSYX}*

Destination: CSNE

DFHZC2452E *date time applid termid tranid* **Invalid command received.** *sense* **((***instance***) Module name: {DFHZSCX})**

Explanation: CICS received an invalid command (z/OS Communications Server indicator). The CICS session-control input exit-routine (SCIP) encountered an indicator other than request-recovery. This routine should be scheduled only when a request-recovery indicator is received from the controller application program.

For the meaning of *sense*, see message DFHZC2400.

System action: If a task is attached, it is abnormally terminated with a transaction dump. The session is terminated and the node is placed out of service.

User response: Check the z/OS Communications Server RPL for obvious errors. Use the dump to help determine the source of the problem.

Module: DFHZSCX

XMEOUT Parameters: *date, time,applid, termid, tranid, sense, instance, {1=DFHZSCX}*

Destination: CSNE

DFHZC2453E *date time applid termid tranid* **Request recovery received.** *sense* **((***instance***) Module name: {DFHZSCX})**

Explanation: A request for recovery was received. The secondary logical unit requested message resynchronization by sending a request-recovery indicator, but a message sequence number is inconsistent with the sequence number maintained by the 3601 application program.

For the meaning of *sense*, see message DFHZC2400.

System action: All outstanding send and receive requests are purged. If a task is attached, it is abnormally terminated with a transaction dump. Message resynchronization is then initiated by CICS.

User response: None.

Module: DFHZSCX

XMEOUT Parameters: *date, time,applid, termid, tranid, sense, instance, {1=DFHZSCX}*

Destination: CSNE

DFHZC2454E *date time applid termid tranid* **Exception in chain.** *sense* **((***instance***) Module name: {DFHZSYX})**

Explanation: An exception response was returned on a POST=RESP chain-data send. CICS normally does not send chained data using POST=RESP.

For the meaning of *sense*, see message DFHZC2400.

System action: All outstanding send and receive requests are purged. If a task is attached, it is abnormally terminated with a transaction dump.

Message DFHME0116 should be produced containing the symptom string for this problem.

User response: Use the symptom string, and if necessary the transaction dump, to determine the source of the error.

Module: DFHZSYX

XMEOUT Parameters: *date, time,applid, termid, tranid, sense, instance, {1=DFHZSYX}*

Destination: CSNE

DFHZC2455E *date time applid termid tranid* **In CA mode - Task attached.** *sense* **((***instance***) Module name: {DFHZATT})**

Explanation: An attempt to attach a task to a logical unit (LU) was made, despite the task being in continue-any (CA) mode. However, terminal *termid* already had a task attached to it.

For the meaning of *sense*, see message DFHZC2400.

System action: The task that is already attached to terminal *termid* is abnormally terminated with a transaction dump.

Message DFHME0116 should be produced containing the symptom string for this problem. Communication with the node is terminated by issuing the z/OS Communications Server CLSDST macro. CICS then reestablishes communication with the node by issuing the SIMLOGON macro.

User response: Use the symptom string, and if necessary the dump, to determine the source of the error. Try to determine why there was an attempt to attach a task to terminal *termid* while it already had a task attached to it.

Module: DFHZATT

XMEOUT Parameters: *date, time,applid, termid, tranid, sense, instance, {1=DFHZATT}*

Destination: CSNE

DFHZC2456E *date time applid termid tranid* **Exception response received to a command.** *sense* **((***instance***) Module name {DFHZSYX | DFHZRAC})**

Explanation: CICS received an exception response to a command (z/OS Communications Server indicator) that it sent to a logical unit.

For the meaning of *sense*, see message DFHZC2400.

System action: In conjunction with this message, CICS issues a second message that explains the reason for the exception response.

User response: Perform the action specified in the second CICS message received.

Module: DFHZSYX, DFHZSSX

XMEOUT Parameters: *date, time,applid, termid, tranid, sense, instance, {1=DFHZSYX, 2=DFHZSYX, 3=DFHZSYX, 4=DFHZRAC}*

Destination: CSNE

DFHZC2457E *date time applid termid tranid* **Multiple Errors Encountered.** *sense* **((***instance***) Module name {DFHZEMW | DFHZSYX | DFHZRAC})**

Explanation: A node encountered consecutive errors. That is, the node abnormal condition program, NACP, encountered a second error while processing the first error.

For the meaning of *sense*, see message DFHZC2400.

System action: If a task is attached, it is abnormally terminated with a transaction dump. Communication with the node is terminated by issuing a z/OS Communications Server CLSDST macro. The first error is accompanied by an error message.

User response: Use the dump to determine the source of the errors. Refer to the error message produced by the first problem and to any z/OS Communications Server messages that may have been issued.

Module: DFHZRAC, DFHZSYX, DFHZEMW

XMEOUT Parameters: *date, time,applid, termid, tranid, sense, instance, {1=DFHZEMW, 2=DFHZSYX, 3=DFHZSYX, 4=DFHZRAC, 5=DFHZRAC}*

Destination: CSNE

DFHZC2458E *date time applid termid tranid* **Exception response received to an exception response send.** *sense* **((***instance***) Module name: {DFHZRVX | DFHZRAC})**

Explanation: CICS received an exception response to a send for which an exception response was requested.

For the meaning of *sense*, see message DFHZC2400.

System action: In conjunction with this message, CICS issues a second message that explains the reason for the exception response.

User response: Perform the action specified in the second CICS message received.

Module: DFHZRAC, DFHZRVX

XMEOUT Parameters: *date, time,applid, termid, tranid, sense, instance, {1=DFHZRVX, 2=DFHZRVX, 3=DFHZRVX, 4=DFHZRVX, 5=DFHZRAC, 6=DFHZRAC, 7=DFHZRAC, 8=DFHZRAC, 9=DFHZRAC, 10=DFHZRAC, 11=DFHZRAC, 12=DFHZRAC}*

Destination: CSNE

DFHZC2459E *date time applid termid tranid* **No TIOA available for send.** *sense* **((***instance***) Module name: {DFHZSDS})**

Explanation: TCTTEDA was not loaded before issuing a DFHTC TYPE=WRITE, or it was inadvertently cleared.

For the meaning of *sense*, see message DFHZC2400.

System action: If a task is attached, it is abnormally terminated with a transaction dump. The send is purged.

User response: Ensure that TCTTEDA is loaded with the TIOA address before issuing the write.

Module: DFHZSDS

XMEOUT Parameters: *date, time,applid, termid, tranid, sense, instance, {1=DFHZSDS, 2=DFHZSDS}*

Destination: CSNE

DFHZC2460E *date time applid termid tranid* **Sense receive not supported.** *sense* **((***instance***) Module name: {DFHZNAC})**

Explanation: Sense codes not supported by CICS were received from the logical unit.

For the meaning of *sense*, see message DFHZC2400.

System action: All outstanding send and receive requests are purged. If a task is attached, it is abnormally terminated with a transaction dump. Communication with the node is terminated by issuing a z/OS Communications Server CLSDST macro, and the node is placed out of service.

User response: The user's node error program (DFHZNEP) can process the sense codes.

Module: DFHZNAC

XMEOUT Parameters: *date, time,applid, termid, tranid, sense, instance, {1=DFHZNAC}*

Destination: CSNE

DFHZC2461E *date time applid termid tranid* **Intervention required.** *sense* **((***instance***) Module name: {DFHZNAC})**

Explanation: Operator action is requested for a physical component of terminal *termid* before a request can be completed.

For the meaning of *sense*, see message DFHZC2400.

System action: The request is retried, unless the device is one that sends a logical unit status message after intervention is required. In the latter case, the relevant system action is taken.

User response: Correct the problem with the device.

Module: DFHZNAC

XMEOUT Parameters: *date, time,applid, termid, tranid, sense, instance, {1=DFHZNAC}*

Destination: CSNE

DFHZC2462E *date time applid termid tranid* **Bracket Error.** *sense* **((***instance***) Module name: {DFHZNAC})**

Explanation: The secondary logical unit and CICS both sent a begin-bracket indicator concurrently.

For the meaning of *sense*, see message DFHZC2400.

System action: All outstanding send and receive requests are purged. If a task is attached, it is abnormally terminated with a transaction dump. Communication with the node is terminated by issuing the z/OS Communications Server CLSDST macro.

User response: Correct the controller application program so that it cannot send a begin-bracket indicator.

Module: DFHZNAC

XMEOUT Parameters: *date, time,applid, termid, tranid, sense, instance, {1=DFHZNAC}*

Destination: CSNE

DFHZC2463E *date time applid termid tranid* **Node** *nodeid* **resource pending deletion, connection request rejected.** *sense* **((***instance***) Module name: {DFHZBLX | DFHZLGX})**

Explanation: Node *nodeid* tried to connect to CICS. CICS rejected the request because it was deleting the terminal definition for *termid*.

For the meaning of *sense*, see message DFHZC2400.

System action: CICS continues with the resource alteration, or for instance 3 of the message, the autoinstall delete transaction, CATD, is restarted.

User response: When the resource alteration is complete, retry the connection or logon request.

Module: DFHZSCX, DFHZBLX, DFHZLGX

XMEOUT Parameters: *date, time,applid, termid, tranid, nodeid, sense, instance, {1=DFHZBLX, 2=DFHZBLX, 3=DFHZLGX}*

Destination: CSNE

DFHZC2464E *date time applid termid tranid* **Terminate chain.** *sense* **((***instance***) Module name: {DFHZNAC})**

Explanation: The secondary logical unit asked CICS to terminate transmission of further data in the current chain.

For the meaning of *sense*, see message DFHZC2400.

System action: All outstanding send and receive requests are purged. If a task is attached, it is abnormally terminated with a transaction dump. A cancel indicator is issued to the logical unit permitting discard of the data in the current chain.

User response: Use the supplied dump to determine why the logical unit requested the chain to be discarded.

For the meaning of the sense data, refer to the explanatory paragraph in message DFHZC2461.

Module: DFHZNAC

XMEOUT Parameters: *date, time,applid, termid, tranid, sense, instance, {1=DFHZNAC}*

Destination: CSNE

DFHZC2465E *date time applid termid tranid* **Insufficient resources.** *sense* **((***instance***) Module name: {DFHZNAC})**

Explanation: The subsystem controller application program has insufficient resources to handle the request. For instance, in the case of 3601, the 3601 diskette might be full, or the data segment in the 3601 might not be large enough to handle the data set.

For the meaning of *sense*, see message DFHZC2400.

System action: The subsystem is temporarily suspended.

User response: Determine why the controller application program encountered this condition. For the meaning of the sense data, refer to the explanatory paragraph in message DFHZC2461.

Module: DFHZNAC

XMEOUT Parameters: *date, time,applid, termid, tranid, sense, instance, {1=DFHZNAC}*

Destination: CSNE

DFHZC2466E *date time applid termid tranid* **Function not executable.** *sense* **((***instance***) Module name: {DFHZNAC})**

Explanation: The controller application program cannot transmit a message to terminal *termid*. Either a data check occurred, or the node is not available.

For the meaning of *sense*, see message DFHZC2400.

System action: All outstanding send and receive requests are purged. If a task is attached, it is abnormally terminated with a transaction dump. Terminal status remains unchanged.

User response: Use the supplied dump to determine why the application program could not execute the request.

For the meaning of the sense data, refer to the explanatory paragraph in message DFHZC2461.

Module: DFHZNAC

XMEOUT Parameters: *date, time,applid, termid, tranid, sense, instance, {1=DFHZNAC}*

Destination: CSNE

DFHZC2467E *date time applid termid tranid* **Invalid communications ID (CID) detected.** *sense* **((***instance***) Module name: {DFHZLEX})**

Explanation: CICS issued a z/OS Communications Server request containing a communications identifier (CID) which z/OS Communications Server did not recognize. This may be due to the TCTECID field having been altered. Alternatively, it may mean that the session is in the process of being closed down by z/OS Communications Server and that CICS has tried to use it before the process was complete.

For the meaning of *sense*, see message DFHZC2400.

System action: All outstanding send and receive requests are purged. If a task is attached, it is abnormally terminated with a transaction dump. If the losterm exit was driven with return code X'0C, X'10, or X'14, CICS issues a CLSDST to VTAM.

User response: Ensure that application programs running concurrently do not alter the TCTECID field in the TCTTE. Also check that the session is still active; that is, that the system being communicated with is still functioning.

Module: DFHZLEX

XMEOUT Parameters: *date, time,applid, termid, tranid, sense, instance, {1=DFHZLEX}*

Destination: CSNE

DFHZC2468 E *date time applid termid tranid* **Name** *netname* **unknown or vary activate required.** *sense* **((***instance***) Module name: {DFHZLEX})**

Explanation: Either the node has not been activated by VARY ACTIVATE or CICS issued a z/OS Communications Server request containing an invalid symbolic node name where

- The name may have been altered in the node initialization block (NIB)
- The name was specified during z/OS Communications Server definition and does not agree with the name in the TCT.

For the meaning of *sense*, see message DFHZC2400.

System action: All outstanding send and receive requests are purged. If a task is attached, it is abnormally terminated with a transaction dump. The node is placed out of service.

User response: Either issue VARY ACTIVATE for the node, or ensure that application programs running concurrently do not alter the NIB name. Names specified during z/OS Communications Server definition must agree with those in the CICS definitions.

Module: DFHZLEX

XMEOUT Parameters: *date, time,applid, termid, tranid, netname, sense, instance, {1=DFHZLEX}*

Destination: CSNE

DFHZC2469E *date time applid termid tranid* **Exception response received.** *sense* **((***instance***) Module name: {DFHZSYX})**

Explanation: An exception response (negative response) was sent by the secondary logical unit.

For the meaning of *sense*, see message DFHZC2400.

System action: For a non-3270 device, an exception response is returned to the node, along with the sense codes supplied by z/OS Communications Server in the request parameter list (RPL) for the inbound message. For a 3270 device, the exception request contains 3270 sense/status.

User response: Analyze the sense codes in DFHZNEP.

Module: DFHZSYX

XMEOUT Parameters: *date, time,applid, termid, tranid, sense, instance, {1=DFHZSYX, 2=DFHZSYX}*

Destination: CSNE

DFHZC2470E *date time applid termid tranid* **Task active at Shutdown.** *sense* **((***instance***) Module name: {DFHZASX})**

Explanation: One of the following has occurred

- A request shutdown indicator was received from the controller application program on behalf of the node while a task was still attached.
- During z/OS Communications Server shutdown, a shutdown complete indicator was received from the controller application program on behalf of the node while a task was still attached
- During z/OS Communications Server shutdown, a task was still attached to a z/OS Communications Server 3270 (which cannot send request shutdown or shutdown complete).

For the meaning of *sense*, see message DFHZC2400.

System action: In the first two cases, CICS honors the command. In all cases, all outstanding send and receive requests are purged, and if a task is attached, it is abnormally terminated with a transaction dump. Communication with the node is terminated by issuing a z/OS Communications Server CLSDST macro.

User response: None.

Module: DFHZASX

XMEOUT Parameters: *date, time,applid, termid, tranid, sense, instance, {1=DFHZASX}*

Destination: CSNE

DFHZC2471E *date time applid termid tranid* **FMH length error.** *sense* **((***instance***) Module name: {DFHZATT | DFHZRAC})**

Explanation: The function management header (FMH) length was greater than that of the data received from the logical unit.

For the meaning of *sense*, see message DFHZC2400.

System action: All data received is purged. If a task is attached, it is abnormally terminated with a transaction dump.

User response: Correct the application program in the logical unit. The first 16 bytes of the I/O area in error are put to the CSNE log data set to aid in error determination.

Module: DFHZRAC, DFHZATT

XMEOUT Parameters: *date, time,applid, termid, tranid, sense, instance, {1=DFHZATT, 2=DFHZATT, 3=DFHZATT, 4=DFHZATT, 5=DFHZATT, 6=DFHZRAC}*

Destination: CSNE

DFHZC2472E *date time applid termid tranid* **Unable to retrieve overlength data.** *sense* **((***instance***) Module name {DFHZRAC})**

Explanation: The receive request for the remainder of data in excess of the input area for the receive-any module was not accepted by VTAM.

For the meaning of *sense*, see message DFHZC2400.

System action: All associated data is purged.

User response: A subsequent message follows in the log, indicating reasons for the request failing. Refer to this message for further information and guidance.

Module: DFHZRAC

XMEOUT Parameters: *date, time,applid, termid, tranid, sense, instance, {1=DFHZRAC, 2=DFHZRAC}*

Destination: CSNE

DFHZC2473E *date time applid termid tranid* **Outbound chaining not supported.** *sense* **((***instance***) Module name {DFHZSDS})**

Explanation: The application program has attempted to send more data than the generated maximum allowable length.

For the meaning of *sense*, see message DFHZC2400.

System action: All send requests are purged. If a task is attached, it is abnormally terminated with a transaction dump.

User response: Correct the application program so that it is sensitive to the maximum allowable length of data that can be sent to the terminal (such as checking the device type), providing the terminal does not

support outbound chaining of data (such as a pipeline session).

Note: The generated maximum allowable length is specified in the TCTTE.

Module: DFHZSDS

XMEOUT Parameters: *date, time,applid, termid, tranid, sense, instance, {1=DFHZSDS, 2=DFHZSDS}*

Destination: CSNE

DFHZC2475E *date time applid termid tranid* **Function cancelled by LU device.** *sense* **((***instance***) Module name {DFHZNAC})**

Explanation: The logical unit (LU) has terminated all processing connected with one of its components.

For the meaning of *sense*, see message DFHZC2400.

System action: All send and receive requests are purged. If a task is attached, it is abnormally terminated with a transaction dump.

User response: Correct the problem with the LU component and bring it back online. Possible causes of the problem include the following
- Power for the device is switched off
- A line that is down
- A hardware problem
- In the case of an LU6 link, the connected transaction, for example, CSMI, has terminated abnormally.

Module: DFHZNAC

XMEOUT Parameters: *date, time,applid, termid, tranid, sense, instance, {1=DFHZNAC}*

Destination: CSNE

DFHZC2476E *date time applid termid tranid* **Resource unavailable.** *sense* **((***instance***) Module name {DFHZNAC})**

Explanation: A component of the logical unit (LU) is no longer available.

For the meaning of *sense*, see message DFHZC2400.

System action: All send and receive requests are purged. If a task is attached, it is abnormally terminated with a transaction dump.

User response: Correct the problem with the LU component and bring it back online. Possible causes of the problem include the following.
- Power for the device is switched off.
- A line that is down.
- A hardware problem.

Module: DFHZNAC

XMEOUT Parameters: *date, time,applid, termid, tranid, sense, instance, {1=DFHZNAC}*

Destination: CSNE

DFHZC2477E *date time applid termid tranid* **Chaining not supported.** *sense* **((***instance***) Module name: {DFHZNAC})**

Explanation: The logical unit (LU) does not support chaining of data from the host.

For the meaning of *sense*, see message DFHZC2400.

System action: All send requests are purged. If a task is attached, it is abnormally terminated with a transaction dump.

User response: Ensure that the maximum amount of data being transmitted to the LU does not exceed the length specified in the buffer parameter of the DFHTCT macro instruction.

Note: The buffer parameter value can be increased only to the maximum acceptable limit of the LU.

Module: DFHZNAC

XMEOUT Parameters: *date, time,applid, termid, tranid, sense, instance, {1=DFHZNAC}*

Destination: CSNE

DFHZC2478E *date time applid termid tranid* **Invalid FMH.** *sense* **((***instance***) Module name: {DFHZNAC})**

Explanation: The function management header (FMH) transmitted to the logical unit (LU) had no counterpart on the translate table.

For the meaning of *sense*, see message DFHZC2400.

System action: All send and receive requests are purged. If the batch data interchange program is not being used, the transaction is abnormally terminated with a transaction dump. The first part of the TIOA, containing the FMH, is written to the CSNE log.

User response: Correct the application program so that the LU has a counterpart on the translate table.

Module: DFHZNAC

XMEOUT Parameters: *date, time,applid, termid, tranid, sense, instance, {1=DFHZNAC}*

Destination: CSNE

DFHZC2479E *date time applid termid tranid* **Function not supported.** *sense* **((***instance***) Module name: {DFHZNAC})**

Explanation: The response unit (RU) received by the logical unit (LU) contains a request that this device does not support.

For the meaning of *sense*, see message DFHZC2400.

System action: All send and receive requests are purged. If a task is attached, it is abnormally terminated with a transaction dump.

User response: Ensure that the terminal control table (TCT) generation specifications for the device are valid as well as able to accommodate the application requests. (For example, a read-only device being defined as transceive, yet having a bid sent to it.)

Module: DFHZNAC

XMEOUT Parameters: *date, time,applid, termid, tranid, sense, instance, {1=DFHZNAC}*

Destination: CSNE

DFHZC2480E *date time applid termid tranid* **Retry requested.** *sense* **((***instance***) Module name: {DFHZNAC})**

Explanation: The logical unit (LU) has indicated, via sense codes contained in an exception response or an LU status message, that it requires the data to be retransmitted.

For the meaning of *sense*, see message DFHZC2400.

System action: Retransmission of data will be attempted only in the case of protected tasks (message integrity). If the exception response containing the retry sense codes is received for an unprotected task while in chain processing, a cancel command will be sent to the LU and the task will be resumed. If CICS is not in chain processing, the transaction will be resumed.

User response: If message retransmission is necessary for the LU, ensure that the retry sense codes are imbedded in the exception response. Also ensure that the host transaction is defined as a protected task (message integrity).

Module: DFHZNAC

XMEOUT Parameters: *date, time,applid, termid, tranid, sense, instance, {1=DFHZNAC}*

Destination: CSNE

DFHZC2481E *date time applid termid tranid* **RU Error.** *sense* **((***instance***) Module name: {DFHZNAC})**

Explanation: The response unit (RU) received by the logical unit (LU) was either not translatable or had an invalid length.

For the meaning of *sense*, see message DFHZC2400.

System action: All send and receive requests are purged. If a task is attached, it is abnormally terminated with a transaction dump.

User response: Retrying the request a number of times by use of the node error program (NEP) mechanism may be necessary. This is because this type of error may stem from a bad communication line. If this fails, check for possible invalid or inappropriate terminal specifications at terminal control table (TCT) generation time.

Module: DFHZNAC

XMEOUT Parameters: *date, time,applid, termid, tranid, sense, instance, {1=DFHZNAC}*

Destination: CSNE

DFHZC2482 E *date time applid termid tranid* **Pipeline session bracket error.** *sense* **((***instance***) Module name {DFHZATT})**

Explanation: Terminal *termid* was defined in the terminal control table (TCT) as running in pipeline session mode. However, the BRACKET operand in that definition was either omitted or was specified as BRACKET=YES. Bracket protocol is not enforced on a pipeline session terminal.

For the meaning of *sense*, see message DFHZC2400.

System action: All send and receive requests are purged and the session is terminated. If a task is attached, it is abnormally terminated with a transaction dump.

User response: Correct the resource definition by inserting the BRACKET=NO operand.

Module: DFHZNAC

XMEOUT Parameters: *date, time,applid, termid, tranid, sense, instance, {1=DFHZATT}*

Destination: CSNE

DFHZC2483E *date time applid termid tranid* **Receiver in transmit mode.** *sense* **((***instance***) Module name {DFHZNAC})**

Explanation: Normal data flow has been interrupted.

For the meaning of *sense*, see message DFHZC2400.

System action: Processing continues.

User response: Retry the WRITE.

Module: DFHZNAC

XMEOUT Parameters: *date, time,applid, termid, tranid, sense, instance, {1=DFHZNAC}*

Destination: CSNE

DFHZC2484E *date time applid termid tranid* **Component not available.** *sense* **((***instance***) Module name: {DFHZNAC})**

Explanation: An application request could not be satisfied because the required component was not available.

For the meaning of *sense*, see message DFHZC2400.

System action: If a task is attached, it is abnormally terminated with a transaction dump. All outstanding send and receive requests are purged.

Message DFHME0116 should be produced containing

the symptom string for this problem.

User response: Check the terminal environment, or use the symptom string, and if necessary the dump, to determine the cause of the error.

Module: DFHZNAC

XMEOUT Parameters: *date, time,applid, termid, tranid, sense, instance, {1=DFHZNAC}*

Destination: CSNE

DFHZC2485E *date time applid termid tranid* **Cancel received in 'CS'-mode.** *sense* **((***instance***) Module name: {DFHZRVX})**

Explanation: A CANCEL indicator was received while a task was active.

For the meaning of *sense*, see message DFHZC2400.

System action: If a task is attached, it is abnormally terminated with a transaction dump. All outstanding send and receive requests purged.

User response: None.

Module: DFHZRVX

XMEOUT Parameters: *date, time,applid, termid, tranid, sense, instance, {1=DFHZRVX}*

Destination: CSNE

DFHZC2486E *date time applid termid tranid* **Cancel received in 'CA'-mode.** *sense* **((***instance***) Module name: {DFHZRAC})**

Explanation: A CANCEL indicator was received while no task was active.

For the meaning of *sense*, see message DFHZC2400.

System action: Processing continues.

User response: None.

Module: DFHZRAC

XMEOUT Parameters: *date, time,applid, termid, tranid, sense, instance, {1=DFHZRAC}*

Destination: CSNE

DFHZC2487E *date time applid termid tranid nodeid* **Session connection failed. Node unavailability return code** *returncode***.** *sense* **((***instance***) Module name {DFHZSCX | DFHZBLX | DFHZLGX})**

Explanation: A connection request was rejected. CICS is temporarily unable to carry out the connection request. The TCTTE for node *nodeid* indicated that the session could not be established. *returncode* gives the reason, as follows

1. The CLSDST macro has been scheduled for this node
2. The node is in an abnormal condition
3. The node has an error condition raised against it
4. The node is already in use
5. CICS is terminating
6. z/OS Communications Server is terminating.

For the meaning of *sense*, see message DFHZC2400.

System action: The connection request is rejected.

User response: Retry the connection request when the node becomes available. See the *CICS Customization Guide* for more information on the CLSDST macro and for an explanation of abnormal node conditions.

Module: DFHZLGX, DFHZSCX, DFHZBLX

XMEOUT Parameters: *date, time,applid, termid, tranid, nodeid, returncode, sense, instance, {1=DFHZSCX, 2=DFHZSCX, 3=DFHZSCX,4=DFHZSCX, 5=DFHZSCX, 6=DFHZSCX,7=DFHZBLX, 8=DFHZBLX, 9=DFHZLGX,10=DFHZLGX, 11=DFHZLGX, 12=DFHZLGX,13=DFHZLGX, 14=DFHZLGX, 15=DFHZLGX,16=DFHZLGX}*

Destination: CSNE

DFHZC2488E *date time applid termid tranid nodeid* **logon request rejected as terminal recovery is in progress.** *sense* **((***instance***) Module name: {DFHZLGX | DFHZSCX | DFHZBLX})**

Explanation: A connection request was rejected because the CICS terminal recovery program was still executing.

For the meaning of *sense*, see message DFHZC2400.

System action: The connection request is rejected.

User response: Retry the connection request. Message DFHRU2800 is produced when the recovery program has completed processing.

Module: DFHZLGX, DFHZSCX, DFHZBLX

XMEOUT Parameters: *date, time,applid, termid, tranid, nodeid, sense, instance, {1=DFHZLGX, 2=DFHZSCX, 3=DFHZBLX}*

Destination: CSNE

DFHZC2489 E *date time applid termid tranid* **3270 - Invalid copy request.** *sense* **((***instance***) Module name {DFHZARQ})**

Explanation: The TYPETERM or TERMINAL resource definition of the device from which the information is to be copied ("from" device) did not specify the COPY feature. Alternatively, the "from" device

- Is not defined to CICS, or
- Is not a 3270, or
- Is not connected to CICS via VTAM.

For the meaning of *sense*, see message DFHZC2400.

System action: If a task is attached, it is abnormally terminated with a transaction dump.

User response: Ensure that the application program is aware of the device configuration. Furthermore, ensure that the "from" device is defined to CICS as a 3270 device AND is connected to CICS.

Module: DFHZARQ

XMEOUT Parameters: *date, time,applid, termid, tranid, sense, instance, {1=DFHZARQ, 2=DFHZARQ, 3=DFHZARQ}*

Destination: CSNE

DFHZC2490E *date time applid termid tranid* **Request for TOLTEP.** *sense* **((***instance***) Module name: {DFHZSYX})**

Explanation: On a request for TOLTEP, a receive request completes in error.

For the meaning of *sense*, see message DFHZC2400.

System action: If a transaction is currently attached, it is abnormally terminated. The terminal is disconnected from CICS by a z/OS Communications Server CLSDST macro, and is queued for logon to CICS when TOLTEP has finished.

User response: None.

Module: DFHZSYX

XMEOUT Parameters: *date, time,applid, termid, tranid, sense, instance, {1=DFHZSYX}*

Destination: CSNE

DFHZC2492 E *date time applid termid tranid* **Intervention required on 3270 printer.** *sense* **((***instance***) Module name: {DFHZNAC})**

Explanation: This message is sent to the CSNE message log when an INTERVENTION REQUIRED condition is detected on a 3270 printer. This condition could occur for any of the reasons listed below.

- A transaction has requested the use of a printer that does not exist.
- The printer adapter feature is not present.
- There is no paper in the printer.
- The printer cover is open.
- The printer is offline.

For the meaning of *sense*, see message DFHZC2400.

System action: No action is performed except printing of the RPL and the TCTTE.

User response: Check that the printer is in proper working order. If it is, check that the printer is properly defined to CICS and that the transaction requests proper printer operations.

Module: DFHZNAC

XMEOUT Parameters: *date, time,applid, termid, tranid, sense, instance, {1=DFHZNAC}*

Destination: CSNE

DFHZC2493E *date time applid termid tranid* **Intervention required on 3270 device.** *sense* **((***instance***) Module name: {DFHZNAC})**

Explanation: This message occurs when an INTERVENTION REQUIRED condition arises on the 3270 Information Display System.

For the meaning of *sense*, see message DFHZC2400.

System action: No action is performed.

User response: Correct the intervention condition.

Module: DFHZNAC

XMEOUT Parameters: *date, time,applid, termid, tranid, sense, instance, {1=DFHZNAC}*

Destination: CSNE

DFHZC2494E *date time applid termid tranid* **Error status** *sense* **received from 3270. ((***instance***) Module name {DFHZNAC})**

Explanation: An error status message *sense* was received from a 3270 Information Display System. An INTERVENTION REQUIRED condition causes an "intervention required" message to be output instead of this message.

System action: If a task is attached, it is abnormally terminated with a transaction dump. If bad data, sent by Basic Mapping Support (BMS), causes an operation check, the bad data is purged.

User response: Analyze the error status codes to determine the proper course of action required to correct the unit error or program error.

For non-SNA 3270 devices, the sense code is 0000 xxxx, where xxxx is sense data returned by the control unit to which the 3270 device is attached. Datastream errors are rejected with an Operation Check, and commands with a Command Reject. Details of error status codes are given in the *IBM 3270 Information Display System 3274 Control Unit Description and Programmer's Guide*.

Module: DFHZNAC

XMEOUT Parameters: *date, time,applid, termid, tranid, sense, instance, {1=DFHZNAC}*

Destination: CSNE

DFHZC2495E *date time applid termid tranid* **Printer Outserv/int reqd/ineligible. Req queued.** *sense* **((***instance***) Module name: {DFHZNAC})**

Explanation: DFHZNAC has performed an interval

control PUT to a 3270 printer on behalf of a DFHZC2497 “unavailable printer” condition. The printer is
- Out of service,
- Has an intervention situation, or
- Does not have a RECEIVE or TRANSCEIVE status.

For the meaning of *sense*, see message DFHZC2400.

System action: Other processing continues.

User response: Determine why the printer is unavailable. If the terminal is out of service, put it back into service. If the terminal has an intervention situation, determine what this situation is and correct it. If the terminal does not have a RECEIVE or TRANSCEIVE status, place it into RECEIVE or TRANSCEIVE status.

Module: DFHZNAC

XMEOUT Parameters: *date, time,applid, termid, tranid, sense, instance, {1=DFHZNAC}*

Destination: CSNE

DFHZC2496E *date time applid termid tranid* **IC put to printer failed***{ | IOERROR | TRNIDER | TRMIDER | INVREQ}***.** *sense* **((***instance***) Module name: {DFHZNAC})**

Explanation: DFHZNAC has attempted to perform a DFHIC TYPE=PUT macro as the result of a DFHZC2497 “unavailable printer” condition and has failed. This message is written to the CSNE log.

For the meaning of *sense*, see message DFHZC2400.

System action: DFHZNEP is recalled by DFHZNAC to allow for further processing.

User response: Ensure that
- The interval control program (ICP) is capable of handling the request that DFHZNAC is issuing for the IOERROR and INVREQ errors
- CSPP is an installed transaction definition for the TRNIDER error
- DFHZNEP is passing DFHZNAC as a valid terminal address for the TRMIDER error.

Module: DFHZNAC

XMEOUT Parameters: *date, time,applid, termid, tranid, {1= , 2= IOERROR, 3= TRNIDER, 4=TRMIDER, 5= INVREQ}, sense, instance, {1=DFHZNAC}*

Destination: CSNE

DFHZC2497E *date time applid termid tranid* **Unavailable printer.** *sense* **((***instance***) Module name: {DFHZARQ})**

Explanation: A print function was requested on a 3270 display device. Neither the PRINTTO or the ALTPRT printer was available to receive the information.

For the meaning of *sense*, see message DFHZC2400.

System action: If no NEP action is specified, the print request is halted.

User response: A possible solution is to route the data available at TCTTEDA in the provided terminal entry to a transient data queue that causes automatic task initiation later to a printer. This would be done in DFHZNEP. For more information, see the *CICS Customization Guide*.

Module: DFHZARQ

XMEOUT Parameters: *date, time,applid, termid, tranid, sense, instance, {1=DFHZARQ}*

Destination: CSNE

DFHZC2498E *date time applid termid tranid* **IC put to printer failed.** *sense* **((***instance***) Module name: {DFHZARQ})**

Explanation: A 3270 print request has failed because transaction CSPP could not be initiated. Either transaction CSPP is not an installed transaction definition, or the message to be printed cannot be written to temporary storage.

For the meaning of *sense*, see message DFHZC2400.

System action: Processing continues.

User response: Check that transaction CSPP is an installed transaction definition and that you have sufficient temporary storage to accommodate the data to be printed.

Module: DFHZARQ

XMEOUT Parameters: *date, time,applid, termid, tranid, sense, instance, {1=DFHZARQ}*

Destination: CSNE

DFHZC2499 *date time applid* **The following message was destined for a read only terminal. The text is '***msgtext***'**

Explanation: The user has entered an invalid entry, the entry is rejected, and the request is backed out.

System action: Terminal Control backs out the request and issues this message with the error information contained in *msgtext*.

User response: Read the error information that is contained in *msgtext* and reenter the request.

XMEOUT Parameters: *date, time,applid, msgtext*

DFHZC3202E *date time applid* **Transaction CCIN - VTAM netname** *netname***. The value** *codepage* **in the codepage parameter is not supported.**

Explanation: A CCIN transaction has been run from a

CICS client. The codepage which the CICS client has requested is not supported.

netname is the z/OS Communications Server netname of the CICS client.

System action: CICS cannot perform the translations required to support the CICS client with the requested character set and codepage. CICS continues but uses a default codepage instead of the supplied one. For details of the default codepage, see the *CICS Family: Communicating from CICS on zSeries* manual.

The request to install the CICS client continues, but uses the default codepage. A response code of EXCEPTION and a reason code of INVALIDCODEPAGE is sent to the client.

User response: See the *CICS Family: Communicating from CICS on zSeries* manual for a list of the client codepage values which are supported. It may be necessary to reconfigure the client locale.

Module: DFHZCN2

XMEOUT Parameters: *date, time,applid, netname, codepage*

Destination: CSCC

DFHZC3203E *date time applid* **Transaction CCIN - VTAM netname** *netname***. The capabilities parameter is not valid.**

Explanation: A CCIN transaction has been run from a CICS client. The capabilities which have been received are not valid. The CICS client has specified that it supports features which no CICS client is supposed to support. The CICS client is violating the CICS client communications architecture.

netname is the z/OS Communications Server netname of the CICS client.

System action: Exception trace point AP301A is written.

The request to install the CICS client is rejected. A response code of DISASTER and a reason code of INVALIDREQUEST is sent to the client.

User response: You need further assistance from IBM to resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHZCN2

XMEOUT Parameters: *date, time,applid, netname*

Destination: CSCC

DFHZC3204E *date time applid* **Transaction CCIN - VTAM netname** *netname***. The codepage parameter has not been specified.**

Explanation: A CCIN transaction has been run from a CICS client. One of the parameters which must be supplied is the codepage which the CICS client intends to use. This parameter is missing.

netname is the z/OS Communications Server netname of the CICS client.

System action: Exception trace point AP301B is written.

The request to install the CICS client is rejected. A response code of DISASTER and a reason code of INVALIDREQUEST is sent to the client.

User response: You need further assistance from IBM to resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHZCN1

XMEOUT Parameters: *date, time,applid, netname*

Destination: CSCC

DFHZC3205E *date time applid* **Transaction CTIN - virtual terminal** *termid* **VTAM netname** *netname***. CICS cannot support the** *{n.a. | combination of client and virtual terminal codepage. | client codepage. | virtual terminal codepage.}*

Explanation: A CTIN install request has been received from a CICS client as a result of a CICS_EpiAddTerminal function or terminal emulator operation.

CICS was checking the codepage specified by the CICS client and the codepage specified by the virtual terminal. However one of the following occurred

1 – 3 *n.a.* - not applicable and should not occur.

4 *unsupported combination of CICS client and virtual terminal codepage.* indicates that the two codepages above are known about but CICS does not support data conversion between the CICS client codepage and the virtual terminal codepage.

5 *unsupported CICS client codepage* indicates that CICS is unable to support the codepage supplied by the CICS client in the CCIN or CTIN transaction.

6 *unsupported virtual terminal codepage* indicates that the CGCSGID parameter defining the virtual terminal codepage is not supported for CICS data conversion. If the virtual terminal was autoinstalled, CGCSGID was specified in the autoinstall model requested by the CICS client. If the virtual terminal was defined, CGCSGID was defined in the TYPETERM named by the virtual terminal definition.

CICS cannot perform the translations required to support the CICS client with the requested codepage.

netname is the z/OS Communications Server netname of the CICS client.

System action: Exception trace point AP3035 is written.

4 *unsupported combination of CICS client and virtual terminal codepage.*

A response code of ERROR and a reason code of INSTALLCANCELLED is sent to the client. The virtual terminal is NOT installed.

5 *unsupported CICS client codepage.*

The request to install the virtual terminal continues and the invalid codepage is replaced by a default as specified in the *CICS Family: Communicating from CICS on zSeries* manual.

A response code of EXCEPTION and a reason code of INVALIDCODEPAGE is sent to the client.

6 *unsupported virtual terminal codepage.*

A response code of ERROR and a reason code of INSTALLCANCELLED is sent to the client. The virtual terminal is NOT installed.

User response: See the *CICS Family: Communicating from CICS on zSeries* manual and check the list of the client codepage values then reconfigure the workstation locale or correct the virtual terminal TYPETERM definition.

The exception trace point AP3035 contains the CICS client codepage and the virtual terminal CGCSGID values.

Module: DFHZCT1

XMEOUT Parameters: *date, time,applid, termid, netname, {1=n.a., 2=n.a., 3=n.a., 4=combination of client and virtual terminal codepage., 5=client codepage., 6=virtual terminal codepage.}*

Destination: CSCC

DFHZC3206E *date time applid* **Transaction CTIN - virtual terminal** *termid* **VTAM netname** *netname***. The client's terminal install limit has been exceeded.**

Explanation: A CTIN install request has been received from a CICS client as a result of a CICS_EpiAddTerminal function or terminal emulator operation. However the CICS client whose z/OS Communications Server netname is *netname* already has 512 virtual terminals.

termid is the name that would have been given to the new virtual terminal. If the CICS client did not supply the name it is blank.

System action: The request to install the virtual terminal is rejected. A response code of DISASTER and a reason code of INVALIDREQUEST is sent to the client.

User response: Check why the CICS client has sent so many CTIN installs without corresponding CTIN uninstall functions.

To correct the problem the CICS client must send a CTIN uninstall for each virtual terminal that needs to be deleted.

Module: DFHZCT1

XMEOUT Parameters: *date, time,applid, termid, netname*

Destination: CSCC

DFHZC3207E *date time applid* **Transaction CTIN - VTAM netname** *netname***. The request has failed because CCIN has not been run.**

Explanation: A CTIN install request has been received from a CICS client as a result of a CICS_EpiAddTerminal function or terminal emulator operation. However there was no previous CCIN install request for the CICS client with the z/OS Communications Server netname of *netname*. CCIN must always run before CTIN.

This may have been caused by a CICS restart.

netname is the z/OS Communications Server netname of the CICS client.

System action: If the request was to install a virtual terminal then it is rejected with a response code of CTIN_ERROR and a reason code of CTIN_CCIN_INACTIVE.

User response: The CICS client must carry out CCIN uninstall/install before the next CTIN install.

Module: DFHZCT1

XMEOUT Parameters: *date, time,applid, netname*

Destination: CSCC

DFHZC3208E *date time applid* **Transaction CTIN - virtual terminal** *termid* **VTAM netname** *netname***. Model** *modelid* **cannot be found.**

Explanation: A CTIN install request has been received from a CICS client as a result of a CICS_EpiAddTerminal function or terminal emulator operation. However CICS was unable to find the model *modelid* which was specified in the CICS_EpiAddTerminal DEVTYPE parameter or terminal emulator ModelId parameter.

netname is the z/OS Communications Server netname of the CICS client.

System action: The request to install the virtual terminal is rejected. A response code of ERROR and a

reason code of UNKNOWNMODEL is sent to the client.

User response: Either correct the DevType in the CICS_EpiAddTerminal function or terminal emulator parameter or install a model of this name using RDO to define the autoinstall model with the RDO TERMINAL and TYPETERM definitions.

Module: DFHZCT1

XMEOUT Parameters: *date, time,applid, termid, netname, modelid*

Destination: CSCC

DFHZC3209E *date time applid* **Transaction CTIN - VTAM netname** *netname***. CICS cannot supply a terminal name because all available names are in use.**

Explanation: A CTIN install request has been received from a CICS client as as a result of a CICS_EpiAddTerminal function or terminal emulator operation. The parameter list did not supply a NetName indicating that CICS should supply the name. However there are only 46,656 possible names available and they are all currently in use.

netname is the z/OS Communications Server netname of the CICS client.

System action: The request to install the virtual terminal is rejected. A response code of ERROR and a reason code of INSTALLCANCELLED is sent to the client.

User response: As CICS clients issue CTIN uninstalls for autoinstalled virtual terminals these termids will be freed.

It is possible that some of the CICS clients were switched off leaving autoinstalled virtual terminals around. When these are switched back on again they should issue CCIN install which will free the virtual terminals if they are not in use.

DISCARD can be used to delete a virtual terminal - but this should be done with discretion.

If the SIT VTPREFIX coincides with the first character of the termid allocated to a normal autoinstall terminal by the autoinstall URM (default DFHZATDX), there may be some names reserved because the autoinstall terminal existed when CTIN install tried to use the same name. Avoid doing this if possible because the only way to free these names is to restart CICS.

Module: DFHZCT1

XMEOUT Parameters: *date, time,applid, netname*

Destination: CSCC

DFHZC3210E *date time applid* **Transaction CTIN - virtual terminal** *termid* **VTAM netname** *netname***. CICS cannot attach the CITS transaction.**

Explanation: A CTIN install request has been received from a CICS client as a result of a CICS_EpiAddTerminal function or terminal emulator operation. As part of the installation process the CITS transaction is called to create a virtual terminal *termid*. However CICS was unable to attach the CITS transaction.

netname is the z/OS Communications Server netname of the CICS client.

System action: Exception trace point AP3025 is written.

The request to install the virtual terminal is rejected. A response code of ERROR and a reason code of INSTALLCANCELLED is sent to the client.

User response: Check that the CITS transaction and the DFHZATS program are defined correctly as specified in the DFHSPI IBM supplied group and are installed.

Module: DFHZCT1

XMEOUT Parameters: *date, time,applid, termid, netname*

Destination: CSCC

DFHZC3211E *date time applid* **Transaction CTIN - virtual terminal** *termid* **VTAM netname** *netname***. The NetName parameter starts with an invalid character.**

Explanation: A CTIN install request has been received from a CICS client as a result of a CICS_EpiAddTerminal function or terminal emulator operation. The NetName parameter *termid* starts or ends with a character that conflicts with CICS standards.

netname is the z/OS Communications Server netname of the CICS client.

System action: The request to install the virtual terminal is rejected. A response code of DISASTER and a reason code of INVALIDTERMID is sent to the client.

User response: Change the NetName to start or end with a different character. It can start with any character that is valid for a normal terminal name except for <,> or -. It cannot end with an -. If the NetName was specified correctly, check the input to the CTIN transaction.

Module: DFHZCT1

XMEOUT Parameters: *date, time,applid, termid, netname*

Destination: CSCC

DFHZC3212E *date time applid* **Transaction CTIN - virtual terminal** *termid* **VTAM netname** *netname***. The transaction has timed out waiting for CITS to run.**

Explanation: A CTIN install request has been received from a CICS client as a result of a CICS_EpiAddTerminal function or terminal emulator operation. As part of the installation process the CITS transaction is called to create virtual terminal *termid*. However the CTIN transaction has waited for two minutes for the CITS transaction to run.

netname is the z/OS Communications Server netname of the CICS client.

System action: Exception trace point AP3027 is written.

The request to install the virtual terminal is rejected. A response code of ERROR and a reason code of INSTALLCANCELLED is sent to the client.

User response: Investigate why the CITS transaction was unable to start or was hanging.

You may need to increase MAXTASK or the CITS TRANCLASS allocation.

Module: DFHZCT1

XMEOUT Parameters: *date, time,applid, termid, netname*

Destination: CSCC

DFHZC3213E *date time applid* **Transaction CTIN - virtual terminal** *termid* **VTAM netname** *netname***. CICS cannot attach the CDTS transaction.**

Explanation: A CTIN uninstall request has been received from a CICS client as a result of a CICS_EpiDelTerminal function or terminal emulator operation. As part of the delete process the CDTS transaction is called to delete virtual terminal *termid*. However CICS was unable to attach the CDTS transaction.

netname is the z/OS Communications Server netname of the CICS client.

System action: Exception trace point AP3028 is written. The attempt to delete the virtual terminal is rejected.

User response: Check to see if the CDTS transaction and the DFHZATS program are defined correctly as specified in IBM supplied group DFHSPI and that they are installed.

Module: DFHZCT1

XMEOUT Parameters: *date, time,applid, termid, netname*

Destination: CSCC

DFHZC3214E *date time applid* **Transaction CTIN - virtual terminal** *termid* **VTAM netname** *netname***. The CTIN transaction has timed out waiting for CDTS to run.**

Explanation: A CTIN uninstall request has been received from a CICS client as a result of a CICS_EpiDelTerminal function or terminal emulator operation. As part of the installation process the CDTS transaction is called to delete virtual terminal *termid*. However the CTIN transaction has waited for the CDTS transaction for two minutes and so ends with this message.

netname is the z/OS Communications Server netname of the CICS client.

System action: Exception trace point AP3029 is written. The CDTS attempt to delete the virtual terminal continues and will occur when the CDTS transaction starts or is 'unsuspended'.

User response: Check to see why the CDTS transaction was unable to start or was hanging.

You may need to increase MAXTASK or the CDTS TRANCLASS allocation.

Module: DFHZCT1

XMEOUT Parameters: *date, time,applid, termid, netname*

Destination: CSCC

DFHZC3215E *date time applid* **Transaction CTIN - virtual terminal** *termid* **VTAM netname** *netname***. The terminal is in use by another transaction.**

Explanation: A CTIN install request has been received from a CICS client as a result of a CICS_EpiAddTerminal function or terminal emulator operation. However the virtual terminal *termid* is in use, that is the surrogate TCTTE indicates that a transaction is still running against this terminal.

netname is the z/OS Communications Server netname of the CICS client.

System action: Exception trace point AP302E is written.

The request to install the virtual terminal is rejected. A response code of ERROR and a reason code of ALREADYINSTALLED is sent to the client.

User response: Investigate why a transaction is still running for the virtual terminal.

Module: DFHZCT1

XMEOUT Parameters: *date, time,applid, termid, netname*

Destination: CSCC

DFHZC3216E *date time applid* **Transaction CTIN - virtual terminal** *termid* **VTAM netname** *netname***. CICS cannot find the terminal.**

Explanation: A CTIN install request has been received from a CICS client as a result of a CICS_EpiAddTerminal function or terminal emulator operation. CTIN specified that a pre defined virtual terminal *termid* should be used, but CICS cannot find it and no ModelId was provided (DevType) so an autoinstall was not attempted.

netname is the z/OS Communications Server netname of the CICS client.

System action: The request to install the virtual terminal is rejected. A response code of ERROR and a reason code of UNKNOWNTERMINAL is sent to the client.

User response: Ensure that there is an installed predefined terminal for *termid* that has a remote system parameter (REMOTESYSTem) specifying the name of this CICS clients connection and that the z/OS Communications Server NETNAMEs match. Then install the definition with the correct parameters.

Module: DFHZCT1

XMEOUT Parameters: *date, time,applid, termid, netname*

Destination: CSCC

DFHZC3217E *date time applid* **Transaction CTIN - VTAM netname** *netname***. The specified function is not valid.**

Explanation: A CTIN request has been received from a CICS client with a z/OS Communications Server netname of *netname*. However the function specified was not INSTALL or UNINSTALL.

System action: Exception trace point AP3034 is written. The CTIN transaction abnormally terminates with abend code AZAI.

User response: Determine where the request originated. Ensure that the input has not been corrupted. You may need further assistance from IBM. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHZCT1

XMEOUT Parameters: *date, time,applid, netname*

Destination: CSCC

DFHZC3218E *date time applid* **Transaction CTIN - virtual terminal** *termid* **VTAM netname** *netname***. A resource with the same name as the terminal is already installed.**

Explanation: A CTIN install request has been received from a CICS client as a result of a CICS_EpiAddTerminal function or terminal emulator operation. CTIN specified that a virtual terminal *termid* should be autoinstalled. However another resource was installed with the same name after the CTIN transaction had ensured that the name was free.

netname is the z/OS Communications Server netname of the CICS client.

System action: Exception trace point AP3026 is written.

The request to install the virtual terminal is rejected. A response code of ERROR and a reason code of ALREADYINSTALLED is sent to the client.

User response: Investigate where the duplicate resource came from. It is possible that the terminal/APPC autoinstall URM created the name dynamically. If NetName was specified in the CTIN parameters, ensure that the CICS client names do not conflict with existing CICS terminal or connection names. If NetName was not specified, examine the SIT VTPREFIX override to check that the URM does not create names starting with the VTPREFIX character.

Module: DFHZCT1

XMEOUT Parameters: *date, time,applid, termid, netname*

Destination: CSCC

DFHZC3219E *date time applid* **Transaction CTIN - virtual terminal** *termid* **VTAM netname** *netname***. The terminal is already in use.**

Explanation: A CTIN install request has been received from a CICS client as a result of a CICS_EpiAddTerminal function or terminal emulator operation. CTIN supplied a NetName *termid* but CICS found a resource with the same name which is either an existing virtual terminal for this client, an existing virtual terminal for another client or another CICS terminal or connection resource.

netname is the z/OS Communications Server netname of the CICS client.

System action: The request to install the virtual terminal is rejected. A response code of ERROR and a reason code of ALREADYINSTALLED is sent to the client.

User response: Investigate where the duplicate resource came from. It is possible that the terminal/APPC autoinstall URM created the name dynamically and that the CICS client used a name that clashes with the URM.

It is also possible that a client created the virtual terminal and then tried to reuse it without an intervening uninstall, via CCIN or CTIN.

Module: DFHZCT1

XMEOUT Parameters: *date, time,applid, termid, netname*

Destination: CSCC

DFHZC3220E *date time applid* **Transaction CTIN - virtual terminal** *termid* **VTAM netname** *netname***. The terminal has already been installed.**

Explanation: A CTIN install request has been received from a CICS client as a result of a CICS_EpiAddTerminal function or terminal emulator operation. CTIN specified that the virtual terminal *termid* should be autoinstalled. However, the virtual terminal was already installed.

netname is the z/OS Communications Server netname of the CICS client.

System action: The request to install the virtual terminal is rejected. A response code of ERROR and a reason code of ALREADYINSTALLED is sent to the client.

User response: The CICS client should issue CTIN uninstall before any attempt to issue another CTIN install for the same NetName.

Module: DFHZCT1

XMEOUT Parameters: *date, time,applid, termid, netname*

Destination: CSCC

DFHZC3221E *date time applid* **Transaction CTIN - virtual terminal** *termid* **VTAM netname** *netname***. The name specified is already in use by another CICS resource.**

Explanation: A CTIN install request has been received from a CICS client as a result of a CICS_EpiAddTerminal function or terminal emulator operation. CTIN specified that the virtual terminal *termid* should be autoinstalled. However, the name specified is already in use by another CICS resource.

netname is the z/OS Communications Server netname of the CICS client.

System action: The request to install the virtual terminal is rejected. A response code of ERROR and a reason code of ALREADYINSTALLED is sent to the client.

User response: Investigate where the duplicate resource came from. It is possible that the terminal/APPC autoinstall URM created the name dynamically.

If NetName was specified on the CTIN install ensure that NetName does not conflict with other CICS resources.

If NetName was not specified, examine the SIT VTPREFIX override to check that the URM does not create names starting with the VTPREFIX character.

Module: DFHZCT1

XMEOUT Parameters: *date, time,applid, termid, netname*

Destination: CSCC

DFHZC3222E *date time applid* **Transaction CTIN - virtual terminal** *termid* **VTAM netname** *netname***. The CITS task has terminated abnormally.**

Explanation: A CTIN install request has been received from a CICS client as a result of a CICS_EpiAddTerminal function or terminal emulator operation. CICS attempted to autoinstall the virtual terminal *termid*. However, the CITS task which was attached to install the virtual terminal, abended.

If this ABEND was an AZVE, this is because a resource already exists with that name. However, this only occurs if the duplicate resource was added after this CTIN transaction started and checked for any duplicate.

netname is the z/OS Communications Server netname of the CICS client.

System action: Exception trace point AP3030 is written.

The request to install the virtual terminal is rejected. A response code of ERROR and a reason code of INSTALLCANCELLED is sent to the client.

User response: Investigate where the duplicate resource came from. It is possible that the terminal/APPC autoinstall URM created the name dynamically.

If NetName was specified on the CTIN install, ensure that the names do not conflict.

If NetName was not specified, examine the SIT VTPREFIX override to check that the URM does not create names starting with the VTPREFIX character.

For any other abend, see the description of the abend code for further guidance.

Module: DFHZCT1

XMEOUT Parameters: *date, time,applid, termid, netname*

Destination: CSCC

DFHZC3223E *date time applid* **Transaction CTIN - virtual terminal** *termid* **VTAM netname** *netname***. The surrogate TCTTE is in use and cannot be deleted.**

Explanation: A CTIN uninstall request has been received from a CICS client as a result of a CICS_EpiDelTerminal function or terminal emulator operation. However, the surrogate TCTTE attached to the virtual terminal is still in use and cannot be deleted.

netname is the z/OS Communications Server netname of the CICS client.

System action: Exception trace point AP302F is

written. The attempt to delete the virtual terminal is rejected.

User response: Either wait for the transaction to finish or PURGE the transaction. Once the transaction has ended the virtual terminal will be deleted when the client issues CCIN install or uninstall.

Module: DFHZCT1

XMEOUT Parameters: *date, time,applid, termid, netname*

Destination: CSCC

DFHZC3224E *date time applid* **Transaction CTIN - virtual terminal** *termid* **VTAM netname** *netname***. The terminal specified for deletion cannot be found.**

Explanation: A CTIN uninstall request has been received from a CICS client as a result of a CICS_EpiDelTerminal function or terminal emulator operation. However the virtual terminal *termid* does not exist as a remote terminal for this CICS client.

netname is the z/OS Communications Server netname of the CICS client.

System action: The attempt to delete the virtual terminal is rejected.

User response: Determine why a CICS client requested that a non existent virtual terminal be deleted.

If the CTIN uninstall was issued correctly and the virtual terminal should exist, examine the CICS log for message DFHZC5966 and for DFHZC32*xx* messages referring to this terminal.

Module: DFHZCT1

XMEOUT Parameters: *date, time,applid, termid, netname*

Destination: CSCC

DFHZC3225E *date time applid* **Transaction CTIN - VTAM netname** *netname***. The terminal cannot be deleted because the NetName parameter is missing.**

Explanation: A CTIN uninstall request has been received from a CICS client as a result of a CICS_EpiDelTerminal function or terminal emulator operation. However the NetName parameter, defining which virtual terminal is to be deleted, is missing.

netname is the z/OS Communications Server netname of the CICS client.

System action: Exception trace point AP3037 is written – data 2 contains the data received. The attempt to delete the virtual terminal is rejected.

User response: Examine the input to CTIN. You may need further assistance from IBM. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHZCT1

XMEOUT Parameters: *date, time,applid, netname*

Destination: CSCC

DFHZC3226E *date time applid* **Transaction CTIN - virtual terminal** *termid* **VTAM netname** *netname***. CICS cannot access the builder parameter set.**

Explanation: A CTIN install request has been received from a CICS client as a result of a CICS_EpiAddTerminal function or terminal emulator operation. CICS is attempting to extract the details from the virtual terminal that has just been created and return them back to the CICS client. However the attempt to extract the details in the form of a builder parameter set (BPS) failed.

netname is the z/OS Communications Server netname of the CICS client.

System action: Exception trace point AP3031 is written.

The request to install the virtual terminal is rejected. A response code of ERROR and a reason code of INSTALLCANCELLED is sent to the client.

User response: You need further assistance from IBM to resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHZCT1

XMEOUT Parameters: *date, time,applid, termid, netname*

Destination: CSCC

DFHZC3227E *date time applid* **Transaction CTIN - VTAM netname** *netname***. The client data is longer than expected.**

Explanation: A CTIN install request has been received from a CICS client as a result of a CICS_EpiAddTerminal function or terminal emulator operation. However the data received was longer than expected. *netname* is the z/OS Communications Server netname of the CICS client.

System action: Exception trace point AP302D is written – data 2 contains the length that was received. The CTIN transaction abnormally terminates with abend code AZAI.

User response: Examine the data sent to CICS from the CICS client. You may need to contact IBM for assistance. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHZCT1

XMEOUT Parameters: *date, time,applid, netname*

Destination: CSCC

DFHZC3228E *date time applid* **Transaction CTIN - VTAM netname** *netname***. The client header data contains an invalid group.**

Explanation: A CTIN install request has been received from a CICS client as a result of a CICS_EpiAddTerminal function or terminal emulator operation. However the header contains an invalid group. *netname* is the z/OS Communications Server netname of the CICS client.

System action: Exception trace point AP3024 is written – data 2 contains the data received. The CTIN transaction abnormally terminates with abend code AZAI.

User response: Examine the data sent to CICS from the CICS client. You may need to contact IBM for assistance. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHZCT1

XMEOUT Parameters: *date, time,applid, netname*

Destination: CSCC

DFHZC3229E *date time applid* **Transaction CTIN - VTAM netname** *netname***. CICS has received invalid data from the client.**

Explanation: A CTIN install request has been received from a CICS client as a result of a CICS_EpiAddTerminal function or terminal emulator operation. CICS attempted to parse this data but found a discrepancy between the number of parameters, the length of the parameters and the length of the data received. *netname* is the z/OS Communications Server netname of the CICS client.

System action: Exception trace point AP3033 is written – data 2 contains the data received. The CTIN transaction abnormally terminates with abend code AZAI.

User response: Examine the data sent to CICS from the CICS client. You may need further assistance from IBM. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHZCT1

XMEOUT Parameters: *date, time,applid, netname*

Destination: CSCC

DFHZC3230E *date time applid* **Transaction CTIN - VTAM netname** *netname***. CICS has received a client request on an unsupported sync level.**

Explanation: A CTIN request has been received on a conversation which is not at synchronization level 0 or 1. *netname* is the z/OS Communications Server netname of the CICS client.

System action: Exception trace point AP302B is written. The CTIN transaction abnormally terminates with abend code AZAI.

User response: Ensure that the CICS client converses at sync level 0 or 1.

Module: DFHZCT1

XMEOUT Parameters: *date, time,applid, netname*

Destination: CSCC

DFHZC3231E *date time applid* **Transaction CTIN - VTAM netname** *netname***. The client header data contains an invalid version number.**

Explanation: A CTIN install request has been received from a CICS client as a result of a CICS_EpiAddTerminal function or terminal emulator operation. However there is an invalid version number in the header. *netname* is the z/OS Communications Server netname of the CICS client.

System action: Exception trace point AP3036 is written – data 2 contains the data received. The CTIN transaction abnormally terminates with abend code AZAI.

User response: Since the version used in the CICS client must match with the version used by the server, one or the other is at the wrong level and should be changed. You may need further assistance from IBM. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHZCT1

XMEOUT Parameters: *date, time,applid, netname*

Destination: CSCC

DFHZC3240E *date time applid* **Transaction CCIN - VTAM netname** *netname***. CICS has received a client request on an unsupported sync level.**

Explanation: A CCIN request has been received on a conversation which is not at synchronization level 0 or 1. *netname* is the VTAM netname of the CICS client.

System action: Exception trace point AP3003 is written. The CCIN transaction abnormally terminates with abend code AZAF.

User response: Ensure that the CICS client converses at sync level 0 or 1.

Module: DFHZCN1

XMEOUT Parameters: *date, time,applid, netname*

Destination: CSCC

DFHZC3241E *date time applid* **Transaction CCIN - VTAM netname** *netname***. The client data is longer than expected.**

Explanation: A CCIN install request has been received from a CICS client. However the data received was longer than expected. *netname* is the z/OS Communications Server netname of the CICS client.

System action: Exception trace point AP3004 is written – data 2 contains the length that was received. The CCIN transaction abnormally terminates with abend code AZAF.

User response: Examine the data sent to CICS from the CICS client. You may need further assistance from IBM. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHZCN1

XMEOUT Parameters: *date, time,applid, netname*

Destination: CSCC

DFHZC3242E *date time applid* **Transaction CCIN - VTAM netname** *netname***. The client header data contains an invalid group.**

Explanation: A CCIN request has been received from a CICS client. However there is an invalid group in the header. *netname* is the z/OS Communications Server netname of the CICS client.

System action: Exception trace point AP3002 is written – data 2 contains the data received. The CCIN transaction abnormally terminates with abend code AZAF.

User response: Examine the data sent to CICS from the CICS client.

Module: DFHZCN1

XMEOUT Parameters: *date, time,applid, netname*

Destination: CSCC

DFHZC3243E *date time applid* **Transaction CCIN - VTAM netname** *netname***. The client header data contains an invalid version number.**

Explanation: A CCIN install request has been received from a CICS client. However the header contains an invalid version value. *netname* is the z/OS Communications Server netname of the CICS client.

Either the CICS client is setting up the CCIN header incorrectly or a new version of the CICS client software is being used which is not supported on CICS Transaction Server for z/OS, Version 4 Release 2.

System action: Exception trace point AP300B is written – data 2 contains the data received. The CCIN transaction abnormally terminates with abend code AZAF.

User response: Since the version used in the CICS client must match with the version used by the server, one or the other is at the wrong level and should be changed. You may need further assistance from IBM. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHZCN1

XMEOUT Parameters: *date, time, applid, netname*

Destination: CSCC

DFHZC3244E *date time applid* **Transaction CCIN - VTAM netname** *netname***. The client header data contains an invalid function.**

Explanation: A CCIN request has been received from a CICS client. However there is an invalid function in the header. *netname* is the z/OS Communications Server netname of the CICS client.

System action: Exception trace point AP3002 is written - data 2 contains the data received. The CCIN transaction abnormally terminates with abend code AZAF.

User response: Investigate why the CICS client has sent an unknown function call to CCIN. You may need further assistance from IBM. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHZCN1

XMEOUT Parameters: *date, time,applid, netname*

Destination: CSCC

DFHZC3245E *date time applid* **Transaction CCIN - VTAM netname** *netname***. The capabilities parameter has not been specified.**

Explanation: A CCIN transaction has been run from a CICS client. One of the parameters which must be supplied is the CAPABILITIES parameter which specifies the capabilities the CICS client can support. This parameter is missing.

netname is the z/OS Communications Server netname of the CICS client.

System action: The request to install a CICS client is rejected. A response code of DISASTER and a reason code of INVALIDREQUEST is sent to the client.

User response: You need further assistance from IBM to resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHZCN1

XMEOUT Parameters: *date, time,applid, netname*

Destination: CSCC

DFHZC3246 *date time applid* **Transaction CCIN - virtual terminal** *termid* **VTAM netname** *netname***. CICS cannot attach the CDTS transaction.**

Explanation: A CCIN request has been received from a CICS client. As part of the processing, the CDTS transaction was called to delete virtual terminal *termid*. However CICS was unable to attach the CDTS transaction.

netname is the z/OS Communications Server netname of the CICS client.

System action: The attempt to delete the virtual terminal fails. If this is a CCIN install request, the install continues.

User response: Ensure that the CDTS transaction and the DFHZATS program are defined correctly as specified in IBM supplied group DFHSPI and that they are installed.

Module: DFHZCN2

XMEOUT Parameters: *date, time,applid, termid, netname*

Destination: CSCC

DFHZC3247 *date time applid* **Transaction CCIN - virtual terminal** *termid* **VTAM netname** *netname***. The CCIN transaction has timed out waiting for CDTS to run.**

Explanation: A CCIN request has been received from a CICS client. As part of the processing, the CDTS transaction is called to delete virtual terminal *termid*. However the CCIN transaction has waited for the CDTS transaction for two minutes and has timed out.

netname is the z/OS Communications Server netname of the CICS client.

System action: The CDTS attempt to delete the virtual terminal continues and occurs when the CDTS transaction starts or is 'unsuspended'.

If this is a CCIN install request, the install continues.

User response: Check to see why the CDTS transaction was unable to start or was hanging.

You may need to increase MAXTASK or the CITS TRANCLASS allocation.

Module: DFHZCN2

XMEOUT Parameters: *date, time,applid, termid, netname*

Destination: CSCC

DFHZC3248E *date time applid* **Transaction CCIN - virtual terminal** *termid* **VTAM netname** *netname***. The surrogate TCTTE is in use and cannot be deleted.**

Explanation: A CCIN request has been received from a CICS client. There should not be any virtual terminals installed, however, one or more were located. The surrogate TCTTE attached to the virtual terminal is still in use and cannot be deleted. If this was caused by an immediate shut down of the client the transaction abend might not have completed before CICS attempted to delete the client.

netname is the z/OS Communications Server netname of the CICS client.

System action: Exception trace point AP301C is written. The attempt to delete the virtual terminal is rejected.

If this is a CCIN install request, the install continues.

User response: Determine why the virtual terminal was installed when CCIN was run.

Either wait for the transaction to finish or PURGE the transaction. Once the transaction completes the virtual terminal will be deleted at the next CCIN install/uninstall.

Module: DFHZCN2

XMEOUT Parameters: *date, time,applid, termid, netname*

Destination: CSCC

DFHZC3249E *date time applid* **Transaction CCIN - VTAM netname** *netname***. CICS has received invalid data from the client.**

Explanation: A CCIN install request has been received from a CICS client. CICS attempted to parse this data but found a discrepancy between the number of parameters, the length of the parameters, and the length of the data received. *netname* is the z/OS Communications Server netname of the CICS client.

System action: Exception trace point AP300E is written – data 2 contains the data received. The CCIN transaction abnormally terminates with abend code AZAF.

User response: Examine the data sent to CICS from the CICS client. You may need further assistance from IBM. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHZCN1

XMEOUT Parameters: *date, time,applid, netname*

Destination: CSCC

DFHZC3400E *date time applid termid tranid* **Chain exceeds max chain size.** *sense* **((***instance***) Module name: {DFHZRVS | DFHZRVX | DFHZRAC}).**

Explanation: If chain assembly (BUILDCHAIN) has been specified in the TCTTE, the chain being assembled does not fit into the IOAREALEN for a maximum chain (IOAREALEN Value 2). The remaining space in the IOAREALEN for a maximum chain is smaller than the maximum RECEIVESIZE.

If chain assembly (BUILDCHAIN) has been specified in the TCTTE, but maximum chain value equals zero, either the maximum chain value has been set incorrectly at build time or the value has been overwritten.

For the meaning of *sense*, see message DFHZC2400.

System action: If a task is attached, it is abnormally terminated with a transaction dump.

User response: Ensure that the maximum chain size, generated in CEDA TYPETERM with IOAREALEN (value 2) keyword, is large enough for the maximum chain expected.

Module: DFHZRVS, DFHZRVX, DFHZRAC

XMEOUT Parameters: *date, time,applid, termid, tranid, sense, instance, {1=DFHZRVS, 2=DFHZRVS, 3=DFHZRVS, 4=DFHZRVS, 5=DFHZRVS, 6=DFHZRVX, 7=DFHZRAC, 8=DFHZRAC}*

Destination: CSNE

DFHZC3401I *date time applid termid tranid* **Resource now available.** *sense* **((***instance***) Module name: {DFHZNAC})**

Explanation: A resource of the logical unit (LU) is now available. It had previously been temporarily unavailable or had required intervention.

For the meaning of *sense*, see message DFHZC2400.

System action: Any outstanding read or write operation is retried.

User response: None.

Module: DFHZNAC

XMEOUT Parameters: *date, time,applid, termid, tranid, sense, instance, {1=DFHZNAC}*

Destination: CSNE

DFHZC3402E *date time applid termid tranid* **Invalid READ with outbound chain control.** *sense* **((***instance***) Module name {DFHZRVS})**

Explanation: A DFHTC TYPE=READ request is being processed, although the previously issued DFHTC TYPE=WRITE request did not complete a chain.

For the meaning of *sense*, see message DFHZC2400.

System action: All outstanding receive requests are purged. If a task is attached, it is abnormally terminated with a transaction dump.

User response: Correct the application program.

Module: DFHZRVS

XMEOUT Parameters: *date, time,applid, termid, tranid, sense, instance, {1=DFHZRVS}*

Destination: CSNE

DFHZC3405E *date time applid termid tranid* **Catastrophic bracket error.** *sense* **((***instance***) Module name {DFHZNAC})**

Explanation: The logical unit detected a failure of CICS to enforce bracket rules.

For the meaning of *sense*, see message DFHZC2400.

System action: All outstanding send and receive requests are purged. If a task is attached, it is abnormally terminated with a transaction dump. The session is terminated.

Message DFHME0116 should be produced containing the symptom string for this problem.

User response: Use the symptom string, a z/OS Communications Server trace, and if necessary the dump, to determine the source of the problem.

Module: DFHZNAC

XMEOUT Parameters: *date, time,applid, termid, tranid, sense, instance, {1=DFHZNAC}*

Destination: CSNE

DFHZC3406E *date time applid termid tranid* **Parameter error.** *sense* **((***instance***) Module name: {DFHZNAC})**

Explanation: The request/response unit (RU) received by the logical unit (LU) contains a control function with invalid parameters.

For the meaning of *sense*, see message DFHZC2400.

System action: All send and receive requests are purged. If a task is attached, it is abnormally terminated with a transaction dump. A portion of the TIOA is put to the CSNE log.

User response: Correct the application program.

Module: DFHZNAC

XMEOUT Parameters: *date, time,applid, termid, tranid, sense, instance, {1=DFHZNAC}*

Destination: CSNE

DFHZC3407E *date time applid termid tranid* **READ command does not carry change direction indicator.** *sense* **((***instance***) Module name: {DFHZNAC})**

Explanation: A request for input (for example, a READBUF command) sent to a logical unit (LU) type 2 (3270 compatibility mode logical unit) must carry the SNA change direction indicator. The LU has received such a request, but the indicator is not set.

Since the setting of the change direction indicator is controlled by terminal control, this message indicates that an internal logic error may have occurred. The error is not necessarily in terminal control, but may be in the logical unit or some other element of the network.

For the meaning of *sense*, see message DFHZC2400.

System action: The task and the z/OS Communications Server session for the logical unit are abnormally terminated.

Message DFHME0116 should be produced containing the symptom string for this problem.

User response: Identify the request that caused the error, and locate the element of the network responsible.

Module: DFHZNAC

XMEOUT Parameters: *date, time,applid, termid, tranid, sense, instance, {1=DFHZNAC}*

Destination: CSNE

DFHZC3408E *date time applid termid tranid* **Presentation space integrity lost.** *sense* **((***instance***) Module name {DFHZNAC})**

Explanation: The contents of data for screen presentation by a logical unit has been altered. This is usually due to operator action. For example, the TEST/NORMAL key may have been used or the 3270 SYS REQ key may have been pressed.

It may also have been caused by factors other than operator action, for example, 3270 regeneration buffer failure.

For the meaning of *sense*, see message DFHZC2400.

System action: Any outstanding requests are canceled. If a task is attached, it is abnormally terminated with a transaction dump.

User response: Determine reason for failure at the remote terminal.

Module: DFHZNAC

XMEOUT Parameters: *date, time,applid, termid, tranid, sense, instance, {1=DFHZNAC}*

Destination: CSNE

DFHZC3409E *date time applid termid tranid* **Unexpected negative response received.** *sense* **((***instance***) Module name: {DFHZRAC})**

Explanation: CICS received a negative response to a command for which a negative response would not normally be expected.

For the meaning of *sense*, see message DFHZC2400.

System action: All outstanding send and receive requests are purged. If a task is attached, it is abnormally terminated with a transaction dump. The node is placed out of service and the TCTTE, RPL, and action flags are logged to CSNE.

Message DFHME0116 should be produced containing the symptom string for this problem.

User response: Ensure that the application programs running concurrently do not alter the TCTTE. Check that the SNA flows on the session are valid and that the logical unit is not violating SNA protocols.

Module: DFHZRAC

XMEOUT Parameters: *date, time,applid, termid, tranid, sense, instance, {1=DFHZRAC}*

Destination: CSNE

DFHZC3410E *date time applid termid tranid* **Invalid input when LU status expected.** *sense* **((***instance***) Module name {DFHZRVX})**

Explanation: Input (other than a logical unit status message) was received after a request was rejected with a system sense code indicating a possibly rectifiable error condition at the terminal node: for example, Intervention Required. The subsequent LU status message indicates that the error situation has now been corrected, or that the request is permanently not executable.

For the meaning of *sense*, see message DFHZC2400.

System action: If a task is attached, it is abnormally terminated with a transaction dump.

User response: Conform to SNA protocol by ensuring that the next transmission is an LUSTATUS message with a system sense for either Resource Available (0001) or Function Not Executable (081C).

Module: DFHZRVX

XMEOUT Parameters: *date, time,applid, termid, tranid, sense, instance, {1=DFHZRVX, 2=DFHZRVX, 3=DFHZRVX}*

Destination: CSNE

DFHZC3411E *date time applid termid tranid* **Resource temporarily unavailable.** *sense* **((***instance***) Module name: {DFHZNAC})**

Explanation: A terminal resource required to complete a request is temporarily unavailable.

For the meaning of *sense*, see message DFHZC2400.

System action: The request is retried unless the device is one that sends an LUSTATUS message after receiving a "resource temporarily unavailable" notification.

If "resource temporarily unavailable" notification is received, an associated z/OS Communications Server message is usually issued.

User response: Refer to the associated z/OS Communications Server message, if applicable, and follow the guidance provided.

Module: DFHZNAC

XMEOUT Parameters: *date, time,applid, termid, tranid, sense, instance, {1=DFHZNAC}*

Destination: CSNE

DFHZC3412E *date time applid termid tranid* **Intervention required on secondary resource.** *sense* **((***instance***) Module name: {DFHZNAC})**

Explanation: Operator action is requested for the secondary resource of a logical unit (LU). However, no such resource is immediately available. In the case of a 3270-compatible LU, this message means that the printer most likely to be available for a PRINT request has an Intervention Required status.

For the meaning of *sense*, see message DFHZC2400.

System action: The system waits for a logical unit status message and, when this is received, takes appropriate system action.

User response: Correct the problem that relates to the device.

Module: DFHZNAC

XMEOUT Parameters: *date, time,applid, termid, tranid, sense, instance, {1=DFHZNAC}*

Destination: CSNE

DFHZC3413E *date time applid termid tranid* **Logical Unit busy.** *sense* **((***instance***) Module name: {DFHZNAC})**

Explanation: The logical unit has rejected a request because its resources are busy (for example, it is communicating with the system services control point (SSCP)), and thus is unable to process the request.

For the meaning of *sense*, see message DFHZC2400.

System action: The system waits for a logical unit status message and then takes appropriate action.

User response: None.

Module: DFHZNAC

XMEOUT Parameters: *date, time,applid, termid, tranid, sense, instance, {1=DFHZNAC}*

Destination: CSNE

DFHZC3414E *date time applid termid tranid* **Request not executable. Secondary resource unavailable.** *sense* **((***instance***) Module name: {DFHZNAC})**

Explanation: The secondary resource of a logical unit is permanently unavailable to complete a request. For a 3270-compatible LU, this means that a printer was not available for a PRINT request.

For the meaning of *sense*, see message DFHZC2400.

System action: All outstanding send and receive requests are purged. If a task is attached, it is abnormally terminated with a transaction dump.

User response: Determine the reason why the resource is not available at the remote terminal.

Module: DFHZNAC

XMEOUT Parameters: *date, time,applid, termid, tranid, sense, instance, {1=DFHZNAC}*

Destination: CSNE

DFHZC3415E *date time applid termid tranid* **No data available.** *sense* **((***instance***) Module name: {DFHZNAC})**

Explanation: A receive request has been rejected by the logical unit because it has no data to send for one of the following reasons

- The device is not capable of input (for instance, it is a printer)
- The logical unit is not capable of sending data at the time. For example, a requested 3790 data set is not available at the time.

For the meaning of *sense*, see message DFHZC2400.

System action: The receive request is halted. If a task is attached, it is abnormally terminated with a transaction dump.

User response: Verify that the request was issued to the correct device and that the device is capable of data transmission.

Module: DFHZNAC

XMEOUT Parameters: *date, time,applid, termid, tranid, sense, instance, {1=DFHZNAC}*

Destination: CSNE

DFHZC3416 E *date time applid termid tranid* **Session failure. A connection request for an invalid node** *nodeid* **could not be terminated.** *sense* **((***instance***) Module name: {DFHZSCX})**

Explanation: The requested logon was to be rejected, but the attempt to send a negative response was rejected by VTAM.

For the meaning of *sense*, see message DFHZC2400.

System action: No further attempts are made to communicate with the invalid node.

User response: Inspect the CSNE, CSMT and CSTL logs for an indication of a z/OS Communications Server storage problem or error message. Determine whether the node was invalid. If it was valid, update the CICS resource definition for that node.

Module: DFHZNAC

XMEOUT Parameters: *date, time,applid, termid, tranid, nodeid, sense, instance, {1=DFHZSCX}*

Destination: CSNE

DFHZC3417E *date time applid termid tranid* **Session processing error. A request for synchronization has been ignored.** *sense* **((***instance***) Module name: {DFHZSDR})**

Explanation: A request for a sync point to be taken was ignored. COMMIT or ABORT has not been issued.

For the meaning of *sense*, see message DFHZC2400.

System action: If a task is attached, it is abnormally terminated with a transaction dump.

User response: To determine the cause of the problem, inspect the CSNE, CSMT and CSTL logs for further diagnostic information. Also inspect transaction *tranid*.

Module: DFHZSDR

XMEOUT Parameters: *date, time,applid, termid, tranid, sense, instance, {1=DFHZSDR}*

Destination: CSNE

DFHZC3418E *date time applid termid tranid* **System generation error. The** *netname* **logon request was rejected.** *sense* **((***instance***) Module name: {DFHZSCX | DFHZBLX | DFHZLGX})**

Explanation: A logon request was rejected because the TCTTE for the ISC session had been generated with an incompatible SESSIONTYPE.

For the meaning of *sense*, see message DFHZC2400.

System action: The request is rejected.

User response: Change the TCTTE generation to specify a secondary logical unit at one end of the connection, and a primary logical unit at the other end.

A primary logical unit should have SESSIONTYPE=SEND or SESSIONTYPE=FASTSEND, and a secondary logical unit should have SESSIONTYPE=RECEIVE or SESSIONTYPE=FASTRECV.

Module: DFHZSCX, DFHZLGX, DFHZBLX

XMEOUT Parameters: *date, time,applid, termid, tranid, netname, sense, instance, {1=DFHZSCX, 2=DFHZBLX, 3=DFHZLGX}*

Destination: CSNE

DFHZC3419E *date time applid termid tranid* **Session failure. The bind parameter for node** *netname* **is unacceptable.** *sense* **((***instance***) Module name: {RESERVE | DFHZBLX | DFHZSCX})**

Explanation: A connection request was rejected because the characteristics specified for the connecting system were unacceptable.

Possible reasons for the rejection are

- For a MEMBER name connection, the network identifier (NETID) passed to CICS is different from that already stored in the system entry (instance 39).
- For a MEMBER name connection, the GRNAME specified in the sessions bind - UDSS04 - is different from that already stored in the system entry (instance 40).
- For a GR name connection, the network identifier (NETID) passed to CICS is different from that already stored in the connections system entry (instance 41).

For the meaning of *sense*, see message DFHZC2400.

System action: The request is rejected. The bind parameter is printed on the CSNE log.

User response: Determine whether the connecting system has specified its characteristics correctly. If it has not, correct the requesting system.

Module: DFHZSCX

XMEOUT Parameters: *date, time,applid, termid, tranid, netname, sense, instance, {1=RESERVE, 2=DFHZBLX, 3=DFHZSCX, 4=DFHZSCX, 5=DFHZBLX, 6=DFHZBLX, 7=DFHZSCX, 8=DFHZBLX, 9=DFHZBLX, 10=DFHZBLX, 11=DFHZBLX, 12=DFHZBLX, 13=DFHZBLX, 14=DFHZBLX, 15=DFHZBLX, 16=DFHZBLX, 17=DFHZBLX, 18=DFHZBLX, 19=DFHZSCX, 20=DFHZBLX, 21=DFHZBLX, 22=DFHZBLX, 23=DFHZBLX, 24=DFHZBLX, 25=DFHZBLX, 26=DFHZBLX, 27=DFHZBLX, 28=DFHZBLX, 29=DFHZSCX, 30=DFHZBLX, 31=DFHZBLX, 32=DFHZBLX, 33=DFHZBLX, 34=DFHZBLX, 35=DFHZBLX, 36=DFHZBLX, 37=DFHZBLX, 38=DFHZBLX, 39=DFHZBLX,*

40=DFHZBLX, 41=DFHZBLX}

Destination: CSNE

DFHZC3420E *date time applid termid tranid* **Session connection error. Node** *netname* **is out of service.** *sense* **((***instance***) Module name: {DFHZOPN | DFHZBLX})**

Explanation: A logon request was rejected because the TCTTE is out of service.

For the meaning of *sense*, see message DFHZC2400.

System action: The request is rejected.

User response: Place the terminal in service by using the master terminal program and reissuing the connection request.

Module: DFHZSCX, DFHZOPN, DFHZBLX

XMEOUT Parameters: *date, time,applid, termid, tranid, netname, sense, instance, {1=DFHZOPN, 2=DFHZBLX, 3=DFHZBLX}*

Destination: CSNE

DFHZC3421E *date time applid termid tranid* **Session shutdown request received. Node** *netname* **is receiving orderly shutdown.** *sense* **((***instance***) Module name: {DFHZASX})**

Explanation: A shutdown request was received for the system. An orderly termination procedure has begun.

For the meaning of *sense*, see message DFHZC2400.

System action: Orderly termination of the session is started. Access to the remote system is stopped after the current transaction has finished.

User response: None.

Module: DFHZASX

XMEOUT Parameters: *date, time,applid, termid, tranid, netname, sense, instance, {1=DFHZASX}*

Destination: CSNE

DFHZC3422E *date time applid termid tranid* **Connection failure. Request rejected before a session could be started.** *sense* **((***instance***) Module name: {DFHZNSP})**

Explanation: An error occurred while trying to connect the two systems. The request was terminated before a session had been established.

For the meaning of *sense*, see message DFHZC2400.

System action: The request is terminated.

User response: Determine the cause of the problem by inspecting the z/OS Communications Server logs. If the problem is due to a shortage of storage or another temporary error, reissue the request when the system is less heavily loaded.

Module: DFHZNSP

XMEOUT Parameters: *date, time,applid, termid, tranid, sense, instance, {1=DFHZNSP, 2=DFHZNSP}*

Destination: CSNE

DFHZC3423I *date time applid termid tranid* **FM function not supported. A function requested in an FMD RU is not supported by the receiver.** *sense* **((***instance***) Module Name: {DFHZNAC})**

Explanation: CICS has received a negative response (z/OS Communications Server sense code 0826). The receiver does not support the function requested by the sender.

For the meaning of *sense*, see message DFHZC2400.

System action: All outstanding SENDs and RECEIVEs are purged. If a task is attached, it is abnormally terminated with a transaction dump.

User response: Investigate the reason for issuing a request for a function that the receiver does not support.

Module: DFHZNAC

XMEOUT Parameters: *date, time,applid, termid, tranid, sense, instance, {1=DFHZNAC}*

Destination: CSNE

DFHZC3424E *date time applid termid tranid* **Session failure. Session terminated immediately.** *sense* **((***instance***) Module name: {DFHZNSP})**

Explanation: Communication with a node was interrupted during a session because a session outage was detected, or because a z/OS Communications Server VARY INACT command was issued.

Error messages produced for the same session after this message may be caused by the session failure and may not be the reason for it. If this is the case, they can be ignored.

For the meaning of *sense*, see message DFHZC2400.

System action: The session is canceled. The session may be recovered later by VTAM. See also messages DFHZC2409 and DFHZC2410.

User response: Check if the failure was caused by an operator-issued z/OS Communications Server VARY INACT. If this is not the case, use the sense data and any associated messages to investigate the reason for the failure.

Module: DFHZNSP

XMEOUT Parameters: *date, time,applid, termid, tranid,*

sense, instance, {1=DFHZNSP, 2=DFHZNSP, 3=DFHZNSP}

Destination: CSNE

DFHZC3426E *date time applid termid tranid* **Resource unknown.** *sense* **((***instance***) Module name: {DFHZNAC})**

Explanation: During intersystem connection, no matching TCTTE could be found.

For the meaning of *sense*, see message DFHZC2400.

System action: The request is terminated.

User response: Ensure that the name of the requested TCTTE is correctly specified in the requesting system.

Module: DFHZNAC

XMEOUT Parameters: *date, time,applid, termid, tranid, sense, instance, {1=DFHZNAC}*

Destination: CSNE

DFHZC3427E *date time applid termid tranid* **Invalid parameter in bind area.** *sense* **((***instance***) Module name {DFHZNAC})**

Explanation: During intersystem connection, either one or more parameters contained in the bind area of the request were invalid, or were not supported.

For the meaning of *sense*, see message DFHZC2400.

System action: The request is terminated.

User response: Determine which parameters in the bind area are incorrect, and correct them.

Module: DFHZNAC

XMEOUT Parameters: *date, time,applid, termid, tranid, sense, instance, {1=DFHZNAC}*

Destination: CSNE

DFHZC3429E *date time applid termid tranid* **Resynch error - CICS did not resynchronize, other logical unit was expecting resynch.** *sense* **((***instance***) Module name: {DFHZRSY | DFHZSYX})**

Explanation: CICS did not go through a resynchronization process that was expected to occur by the other LU.

For the meaning of *sense*, see message DFHZC2400.

System action: Processing continues.

User response: Check whether this resynchronization mismatch is acceptable.

Module: DFHZRSY, DFHZSYX

XMEOUT Parameters: *date, time,applid, termid, tranid, sense, instance, {1=DFHZRSY, 2=DFHZRSY, 3=DFHZRSY, 4=DFHZRSY, 5=DFHZSYX}*

Destination: CSNE

DFHZC3433E *date time applid termid tranid* **FMH7 was received on ISC session. Sense code is :** *xxxxxxxx{Error log data is : | No error log data received. | No error log data available. }xxxxxxxx sense* **((***instance***) Module name: {DFHZRVX | DFHZRAC | DFHZERH})**

Explanation: The transaction is communicating with a logical unit (LU) type LU6.1 or LU6.2.

The logical unit sent an FMH7 which may carry error log data. If error log data is included, then the text is inserted in this message.

For the meaning of *sense*, see message DFHZC2400.

System action: The action taken depends upon the sense code.

User response: If the receiving transaction is designed to handle this situation, no action is necessary. However, if this is not the case, use the sense code and any error log data to determine why the connected logical unit sent the FMH7.

If the connected LU is another CICS system, the error log data is a CICS message.

If the connected LU is not a CICS system, see that product's documentation for details of error log data. Some products permit the user to define the contents of error log data.

Module: DFHZRVX, DFHZRAC, DFHZERH

XMEOUT Parameters: *date, time,applid, termid, tranid, xxxxxxxx, {1= Error log data is : , 2=No error log data received. , 3=No error log data available. }, xxxxxxxx, sense, instance, {1=DFHZRVX, 2=DFHZRAC, 3=DFHZRAC, 4=DFHZERH}*

Destination: CSNE

DFHZC3434E *date time applid termid tranid* **Unbind received while session still active.** *sense* **((***instance***) Module name: {DFHZSCX})**

Explanation: One side of the intersystem link (secondary) received an unbind command without normal termination protocol being observed. This means an abnormal termination of the session was performed, possibly caused by the other side of the intersystem link abnormally terminating.

For the meaning of *sense*, see message DFHZC2400.

System action: The session is terminated.

User response: Determine the cause of the termination by using CICS Trace and the diagnostic information available on the CSNE log. Try to reestablish the session.

Module: DFHZSCX

XMEOUT Parameters: *date, time,applid, termid, tranid, sense, instance, {1=DFHZSCX, 2=DFHZSCX, 3=DFHZSCX, 4=DFHZSCX, 5=DFHZSCX, 6=DFHZSCX, 7=DFHZSCX, 8=DFHZSCX, 9=DFHZSCX, 10=DFHZSCX}*

Destination: CSNE

DFHZC3435E *date time applid termid tranid* **Path error detected. Device cannot be contacted.** *sense* **((***instance***) Module name: {DFHZNAC})**

Explanation: z/OS Communications Server can no longer transmit to a device because there is no access path to that device. This usually occurs because the device or 3270 has been powered off.

For the meaning of *sense*, see message DFHZC2400.

System action: All outstanding send and receive requests are purged. If a task is attached, it is abnormally terminated with a transaction dump. Communication with the node is terminated by issuing a z/OS Communications Server CLSDST macro, and the node is placed out of service. The session is terminated.

User response: Determine the cause of the termination. Try to reestablish the session.

Module: DFHZNAC

XMEOUT Parameters: *date, time,applid, termid, tranid, sense, instance, {1=DFHZNAC}*

Destination: CSNE

DFHZC3436E *date time applid termid tranid* **End user not authorized.** *sense* **((***instance***) Module name: {DFHZNAC})**

Explanation: A sense code has been received specifying that an unauthorized request was made to the remote node. The request was rejected.

For the meaning of *sense*, see message DFHZC2400.

System action: The session is terminated.

User response: Determine why the end user is not authorized to perform the request.

Module: DFHZNAC

XMEOUT Parameters: *date, time,applid, termid, tranid, sense, instance, {1=DFHZNAC}*

Destination: CSNE

DFHZC3437I *date time applid termid tranid* **Node** *netname* **action taken:** *action* **((***instance***) Module name: {DFHZNAC})**

Explanation: After an error has been processed by DFHZNAC, certain actions may be taken to correct the error. This message indicates the actions that were set. The actions taken can differ from the actions set, depending on the type and state of the node at the time of the error.

System action:

Action Effect

ABRECV
Cancel receive.

ABSEND
Cancel send.

ABTASK
Abend task

CLSDST
Close session.

GMM Send good morning message.

OUTSRV
Place session out of service.

CREATE
Allow ATI to acquire the session if required.

NOCREATE
Do not allow ATI to acquire the session.

NEG RESP
Send an exception response.

SIMLOGON
Generate SIMLOGON request for the session.

CNTASK
Cancel the task.

SYSDUMP
Take a system dump.

PURGEBMS
Purge any BMS pages.

User response: The user action depends on what action has been taken by the system. This is indicated by *action* in the message text.

Module: DFHZNAC

XMEOUT Parameters: *date, time,applid, termid, tranid, netname, action, instance, {1=DFHZNAC}*

Destination: CSNE

DFHZC3438E *date time applid termid tranid* **Device powered off.** *sense* **((***instance***) Module name: {DFHZNAC})**

Explanation: A request has been rejected by the logical unit because the associated device has been powered

off. This message may be caused by operator action. For example, the TEST/NORMAL key may have been used.

For the meaning of *sense*, see message DFHZC2400.

System action: The system waits for a logical unit status message and, when the message has been received, takes appropriate system action.

User response: Correct the problem that relates to the device.

For the meaning of the sense codes, refer to the explanatory paragraph in message DFHZC2461.

Module: DFHZNAC

XMEOUT Parameters: *date, time,applid, termid, tranid, sense, instance, {1=DFHZNAC}*

Destination: CSNE

DFHZC3439E *date time applid termid tranid* **Negative response received to SDT.** *sense* **((***instance***) Module name {DFHZNAC})**

Explanation: A negative response has been received to the START DATA TRAFFIC (SDT) command.

For the meaning of *sense*, see message DFHZC2400.

System action: Processing continues.

User response: None.

Module: DFHZNAC

XMEOUT Parameters: *date, time,applid, termid, tranid, sense, instance, {1=DFHZNAC}*

Destination: CSNE

DFHZC3440E *date time applid termid tranid* **Unable to send error message - session in free status.** *sense* **((***instance***) Module name: {DFHZEMW})**

Explanation: DFHZEMW was attempting to write a message to another node, but was unable to do so because the session was in "between bracket" status.

In this state, it is not possible to send the message in the normal way. The session was in free status, probably because the application program had issued a SEND command with the LAST option.

For the meaning of *sense*, see message DFHZC2400.

System action: Processing continues.

User response: Check to see why the other node sent its request EXCEPTION response mode. Change the response mode to DEFINITE if error messages are to be sent.

Module: DFHZEMW

XMEOUT Parameters: *date, time,applid, termid, tranid, sense, instance, {1=DFHZEMW, 2=DFHZEMW}*

Destination: CSNE

DFHZC3441I *date time applid* **Orderly termination of VTAM sessions requested.** *sense* **((***instance***) Module name: {DFHZSHU})**

Explanation: A request for an orderly close of z/OS Communications Server sessions and subsequent close of CICS z/OS Communications Server ACB has been received. The request may have been initiated by the CICS master terminal command or by the z/OS Communications Server network closing down.

For the meaning of *sense*, see message DFHZC2400.

System action: All nodes are quiesced and each session is closed as it becomes inactive. When all sessions have been closed, the ACB is closed.

User response: None.

Module: DFHZSHU

XMEOUT Parameters: *date, time,applid, sense, instance, {1=DFHZSHU}*

Destination: CSNE

DFHZC3442I *date time applid* **Immediate termination of VTAM sessions requested.** *sense* **((***instance***) Module name: {DFHZSHU | RESERVE | DFHZTPX})**

Explanation: A request for an immediate close of all z/OS Communications Server sessions and subsequent close of CICS z/OS Communications Server ACB has been received. The request may have been initiated by the CICS master terminal command or by the z/OS Communications Server network closing down.

This message is also issued if V NET,ID=...,INACT is issued by the z/OS Communications Server operator.

For the meaning of *sense*, see message DFHZC2400.

System action: All requests on a z/OS Communications Server session are abnormally terminated and the session is closed. The z/OS Communications Server ACB is then closed.

If V NET,ID=...,INACT was issued by the z/OS Communications Server operator, z/OS Communications Server waits for all sessions to be closed before informing CICS. In this case there are no sessions to be abnormally terminated. This message may be issued twice, once by DFHZTPX and once by DFHZSHU. The messages will have different instance numbers.

User response: None.

Module: DFHZSHU, DFHZTPX

XMEOUT Parameters: *date, time,applid, sense, instance, {1=DFHZSHU, 2=RESERVE, 3=RESERVE,4=DFHZTPX, 5=DFHZSHU}*

Destination: CSNE

DFHZC3443I *date time applid* **VTAM has been cancelled or the ACB has been forceclosed. VTAM sessions terminated.***sense* **((***instance***) Module name: {DFHZSHU | DFHZSYX | DFHZTPX})**

Explanation: z/OS Communications Server has been cancelled or force closed by the CICS/z/OS Communications Server operator.

For the meaning of *sense*, see message DFHZC2400.

System action: CICS will close its ACB. All transactions running on z/OS Communications Server sessions are abnormally terminated.

User response: None.

Module: DFHZSHU, DFHZTPX, DFHZSYX

XMEOUT Parameters: *date, time,applid, sense, instance, {1=DFHZSHU, 3=DFHZSYX, 4=DFHZTPX,5=DFHZSHU}*

Destination: CSNE

DFHZC3444E *date time applid termid tranid* **Unexpected condition detected during RECEIVE processing.** *sense* **((***instance***) Module name: {DFHZRVS | DFHZRAC})**

Explanation: CICS has detected that more than 32k of data has been transmitted while receiving data from terminal "termid".

For the meaning of *sense*, see message DFHZC2400.

System action: CICS terminates the session and places the terminal out of service. If a task is attached, it is abnormally terminated with a transaction dump.

Message DFHME0116 should be produced containing the symptom string for this problem.

User response: To determine the cause of this error,

- Check for a terminal malfunction, for example the device may be sending the same data repeatedly, or
- Check for a network problem.

Module: DFHZRVS, DFHZRAC

XMEOUT Parameters: *date, time,applid, termid, tranid, sense, instance, {1=DFHZRVS, 2=DFHZRAC}*

Destination: CSNE

DFHZC3445E *date time applid termid tranid* **State error.** *sense* **((***instance***) Module name: {DFHZNAC})**

Explanation: CICS has received a state error negative response (z/OS Communications Server sense code 20*yy*).

For the meaning of *sense*, see message DFHZC2400.

System action:

System action: All outstanding send and receive requests are purged. If a task is attached, it is abnormally terminated with a transaction dump. Communication with the node is terminated by issuing a z/OS Communications Server CLSDST macro, and the node is placed out of service.

User response: Determine the reason for the error before restarting the session.

Module: DFHZNAC

XMEOUT Parameters: *date, time,applid, termid, tranid, sense, instance, {1=DFHZNAC}*

Destination: CSNE

DFHZC3446E *date time applid termid tranid* **Request error.** *sense* **((***instance***) Module name: {DFHZNAC})**

Explanation: CICS has received a request error negative response (z/OS Communications Server sense code 10*yy*) for which it does not recognize the minor code *yy*.

For the meaning of *sense*, see message DFHZC2400.

System action: All outstanding send and receive requests are purged. If a task is attached, it is abnormally terminated with a transaction dump. Communication with the node is terminated by issuing a z/OS Communications Server CLSDST macro, and the node is placed out of service.

User response: Determine the reason for the error.

Module: DFHZNAC

XMEOUT Parameters: *date, time,applid, termid, tranid, sense, instance, {1=DFHZNAC}*

Destination: CSNE

DFHZC3447E *date time applid termid tranid* **Request reject error.** *sense* **((***instance***) Module name: {DFHZNAC})**

Explanation: CICS has received a request reject negative response (z/OS Communications Server sense code 08*yy*) for which it does not recognize the minor code *yy*.

For the meaning of *sense*, see message DFHZC2400.

System action: All outstanding send and receive requests are purged. If a task is attached, it is abnormally terminated with a transaction dump. Communication with the node is terminated by issuing a z/OS Communications Server CLSDST macro, and the node is placed out of service.

User response: Determine the reason for the error.

Module: DFHZNAC

XMEOUT Parameters: *date, time,applid, termid, tranid, sense, instance, {1=DFHZNAC}*

Destination: CSNE

DFHZC3448E *date time applid termid tranid* **Security identification error.** *sense* **((***instance***) Module name {DFHZNAC})**

Explanation: CICS has received a negative response to a request to access a resource because it was not authorized. If it was an OPNDST (BIND) request, CICS did not send the authorization sequence expected by a logical unit. CICS does not support the security feature in the bind.

For the meaning of *sense*, see message DFHZC2400.

System action: The logical unit is placed out of service and the session is closed.

User response: CICS does not support the security feature in the bind. Modify the authorization parameters in the remote logical unit so that it does not require authorization to initiate a session.

Module: DFHZNAC

XMEOUT Parameters: *date, time,applid, termid, tranid, sense, instance, {1=DFHZNAC}*

Destination: CSNE

DFHZC3449I *date time applid termid tranid* **Leaving unattended mode.** *sense* **((***instance***) Module name: {DFHZNAC})**

Explanation: CICS has received a status message from a logical unit indicating that the terminal is now attended.

Note that this is the default mode of operation.

For the meaning of *sense*, see message DFHZC2400.

System action: The mode of operation bit TCTEMOPU is reset in the TCTTE.

User response: For logical units that can operate in unattended mode, the application programmer should test the mode of operation before starting a conversational sequence with the terminal operator. If the bit is on, no operator action can be expected.

For command level, use the EXEC CICS ASSIGN UNATTEND (data area) command to obtain the value of TCTEMOPU.

Module: DFHZNAC

XMEOUT Parameters: *date, time,applid, termid, tranid, sense, instance, {1=DFHZNAC}*

Destination: CSNE

DFHZC3450I *date time applid termid tranid* **Entering unattended mode.** *sense* **((***instance***) Module name {DFHZNAC})**

Explanation: CICS has received a status message from a logical unit indicating that the terminal is no longer attended.

For the meaning of *sense*, see message DFHZC2400.

System action: The mode of operation bit TCTEMOPU is set in the TCTTE.

User response: For logical units that can operate in unattended mode, the application programmer should test the mode of operation before starting a conversational sequence with the terminal operator. If the bit is on, no operator action can be expected.

For command level, use the EXEC CICS ASSIGN UNATTEND (data area) command to obtain the value of TCTEMOPU.

Module: DFHZNAC

XMEOUT Parameters: *date, time,applid, termid, tranid, sense, instance, {1=DFHZNAC}*

Destination: CSNE

DFHZC3451I *date time applid termid tranid* **Currently no data to send.** *sense* **((***instance***) Module name: {DFHZNAC})**

Explanation: Following the issue of a READ command to a logical unit, or the completion of a transaction associated with the logical unit, CICS has received a status message from the logical unit indicating that it currently has no data to send.

For the meaning of *sense*, see message DFHZC2400.

System action: If a data interchange (DFHDI) receive request is outstanding, it will complete with DSSTAT condition and a response code X'15.

If no task is active and no work is outstanding for the terminal, the soft CLSDEST action flag is set and DFHZNEP is called. Unless it is reset by DFHZNEP, the session is terminated.

User response: Ensure that no more receive requests are issued to the terminal.

Module: DFHZNAC

XMEOUT Parameters: *date, time,applid, termid, tranid, sense, instance, {1=DFHZNAC}*

Destination: CSNE

DFHZC3452E *date time applid termid tranid* **Signal received - Code** *xxxx***.** *sense* **((***instance***) Module name {DFHZASX})**

Explanation: CICS has received a SIGNAL command from a logical unit. The SIGNAL codes received with

the SIGNAL command are made available to the DFHZNEP user program.

If a task is active, the SIGNAL condition is raised on return to the application program. This message is produced only when SIGNAL codes are passed to the node abnormal condition program (DFHZNAC). CICS does this for Type 4 logical units only.

For the meaning of *sense*, see message DFHZC2400.

System action: If the SIGNAL code is 0001 0000 (request change direction), any further output request will cause the IGREQCD condition to be raised. All SIGNAL codes will cause the SIGNAL condition to be raised.

User response: For logical units for which CICS enforces SIGNAL request change direction, if the code is 0001 0000, issue a receive request or terminate transaction *tranid*.

If the code is NOT 0001 0000, terminate transaction *tranid* and refer to the *VTAM Programming* manual for further guidance.

Module: DFHZASX

XMEOUT Parameters: *date, time,applid, termid, tranid, xxxx, sense, instance, {1=DFHZASX, 2=DFHZASX}*

Destination: CSNE

DFHZC3453E *date time applid termid tranid* **RH usage error.** *sense* **((***instance***) Module name: {DFHZNAC})**

Explanation: CICS has received a request header (RH) usage error negative response for which it does not recognize the minor code *yy*.

For the meaning of *sense*, see message DFHZC2400.

System action: All outstanding send and receive requests are purged. If a task is attached, it is abnormally terminated with a transaction dump. Communication with the node is terminated by issuing a z/OS Communications Server CLSDST macro, and the node is placed out of service.

User response: None.

Module: DFHZNAC

XMEOUT Parameters: *date, time,applid, termid, tranid, sense, instance, {1=DFHZNAC}*

Destination: CSNE

DFHZC3454E *date time applid termid tranid* **Session initiation failure. Bind response from node** *netname* **is unacceptable.** *sense* **((***instance***) Module name: {DFHZOPX})**

Explanation: A remote secondary's response to a negotiable bind contained unacceptable parameters.

For the meaning of *sense*, see message DFHZC2400.

System action: Session initialization fails. The sent and received bind parameters are printed on the CSNE log.

User response: Look at the parameters printed on the CSNE log. Ensure that the remote system has correctly specified its characteristics. If there is an invalid format, change it to LEN PSQ LEN SSQ.

Module: DFHZOPX

XMEOUT Parameters: *date, time,applid, termid, tranid, netname, sense, instance, {1=DFHZOPX, 2=DFHZOPX, 3=DFHZOPX, 4=DFHZOPX, 5=DFHZOPX, 6=DFHZOPX, 7=DFHZOPX, 8=DFHZOPX, 9=DFHZOPX, 10=DFHZOPX, 11=DFHZOPX, 12=DFHZOPX, 13=DFHZOPX, 14=DFHZOPX, 15=DFHZOPX, 16=DFHZOPX, 17=DFHZOPX, 18=DFHZOPX, 19=DFHZOPX, 20=DFHZOPX, 21=DFHZOPX, 22=DFHZOPX, 23=DFHZOPX, 24=DFHZOPX, 25=DFHZOPX, 26=DFHZOPX, 27=DFHZOPX, 28=DFHZOPX, 29=DFHZOPX, 30=DFHZOPX, 31=DFHZOPX, 32=DFHZOPX, 33=DFHZOPX, 34=DFHZOPX, 35=DFHZOPX, 36=DFHZOPX, 37=DFHZOPX, 38=DFHZOPX, 39=DFHZOPX, 40=DFHZOPX, 41=DFHZOPX, 42=DFHZOPX, 43=DFHZOPX, 44=DFHZOPX, 45=DFHZOPX}*

Destination: CSNE

DFHZC3455E *date time applid termid tranid* **Session initiation failure. Bind response from node** *netname* **contains an invalid session qualifier pair.** *sense* **((***instance***) Module name {DFHZOPX})**

Explanation: A remote secondary's response to a negotiable bind contained an invalid session qualifier pair in the user data field. Either it had an invalid format, or the primary SQ had been altered.

For the meaning of *sense*, see message DFHZC2400.

System action: Session initialization fails. The sent and received bind images are printed on the CSNE log.

User response: Correct the error in the remote system. If there is an invalid format, change it to LEN PSQ LEN SSQ.

Module: DFHZOPX

XMEOUT Parameters: *date, time,applid, termid, tranid, netname, sense, instance, {1=DFHZOPX, 2=DFHZOPX, 3=DFHZOPX}*

Destination: CSNE

DFHZC3456E *date time applid termid tranid* **No outboard formats loaded.** *sense* **((***instance***) Module name {DFHZNAC})**

Explanation: An outboard format has been referenced, but no outboard formats are loaded on this logical unit.

System action: Transaction *tranid* is abnormally

terminated with a transaction dump.

User response: Load the necessary outboard formats.

Module: DFHZNAC

XMEOUT Parameters: *date, time,applid, termid, tranid, sense, instance, {1=DFHZNAC}*

Destination: CSNE

DFHZC3457E *date time applid termid tranid* **Requested outboard format not loaded.** *sense* **((***instance***) Module name {DFHZNAC})**

Explanation: An outboard format has been referenced, but the requested format is not loaded on this logical unit.

For the meaning of *sense*, see message DFHZC2400.

System action: Transaction *tranid* is abnormally terminated with a transaction dump.

User response: Load the requested outboard format.

Module: DFHZNAC

XMEOUT Parameters: *date, time,applid, termid, tranid, sense, instance, {1=DFHZNAC}*

Destination: CSNE

DFHZC3458E *date time applid termid tranid* **Requested format group not loaded.** *sense* **((***instance***) Module name {DFHZNAC})**

Explanation: An outbound format group has been referenced, but that format group is not loaded on this logical unit.

For the meaning of *sense*, see message DFHZC2400.

System action: Transaction *tranid* is abnormally terminated with a transaction dump.

User response: Load the required format group.

Module: DFHZNAC

XMEOUT Parameters: *date, time,applid, termid, tranid, sense, instance, {1=DFHZNAC}*

Destination: CSNE

DFHZC3459E *date time applid termid tranid* **Unsupported data stream.** *sense* **((***instance***) Module name: {DFHZNAC})**

Explanation: The data stream sent to the device contains control data for functions that the device does not support.

For the meaning of *sense*, see message DFHZC2400.

System action: Transaction *tranid* is abnormally terminated.

User response: Either ensure that transaction *tranid* is not run against the terminal, or change the terminal to one that supports the data stream.

Module: DFHZNAC

XMEOUT Parameters: *date, time,applid, termid, tranid, sense, instance, {1=DFHZNAC}*

Destination: CSNE

DFHZC3460E *date time applid termid tranid* **Requested character set not present.** *sense* **((***instance***) Module name: {DFHZNAC})**

Explanation: The Referenced Logical Character Set Identifier (LCID) specified in the define alternate character set is not known.

For the meaning of *sense*, see message DFHZC2400.

System action: Transaction *tranid* is abnormally terminated with a transaction dump.

User response: Ensure that the character set referenced by the LCID is loaded.

Module: DFHZNAC

XMEOUT Parameters: *date, time,applid, termid, tranid, sense, instance, {1=DFHZNAC}*

Destination: CSNE

DFHZC3461I *date time applid termid tranid* **Node** *netname* **session started.** *sense* **((***instance***) Module name: {DFHZOPX | DFHZEV1 | DFHZEV2})**

Explanation: CICS has successfully issued or received a bind to the node *netname*.

For the meaning of *sense*, see message DFHZC2400.

System action: Processing continues.

User response: None.

Module: DFHZOPX, DFHZEV1, DFHZEV2

XMEOUT Parameters: *date, time,applid, termid, tranid, netname, sense, instance, {1=DFHZOPX, 2=DFHZOPX, 3=DFHZEV1, 4=DFHZEV2}*

Destination: CSNE

DFHZC3462I *date time applid termid tranid* **Node** *netname* **session terminated.** *sense* **((***instance***) Module name: {DFHZCLS})**

Explanation: A session with node *netname* has been closed.

For the meaning of *sense*, see message DFHZC2400.

System action: Processing continues.

User response: None.

Module: DFHZCLS

XMEOUT Parameters: *date, time,applid, termid, tranid, netname, sense, instance, {1=DFHZCLS, 2=DFHZCLS}*

Destination: CSNE

DFHZC3463I *date time applid* **VTAM ACB opened. VTAM Return Code =** *X'rc'*. **Time =** *time sense* **((***instance***) Module name: {DFHZOPA})**

Explanation: The master terminal operator issued a CEMT or CSMT command to open the z/OS Communications Server ACB.

For the meaning of *sense*, see message DFHZC2400.

System action: Processing continues.

User response: This depends on the return code

- If the value is zero, z/OS Communications Server sessions can be enabled.
- If the value is 1, this is not a z/OS Communications Server return code. It is inserted by DFHZOPA if a VTAM OPEN is received when the ACB is already open.
- If the return code is some other value, the operation has failed. See the section on *Open Macroinstructions* in the *VTAM Programming* manual to determine why the z/OS Communications Server ACB was not opened.

Module: DFHZOPA

XMEOUT Parameters: *date, time,applid, X'rc', time, sense, instance, {1=DFHZOPA}*

Destination: CSNE

DFHZC3464I *date time applid termid tranid* **Node** *netname* **released by MT Operator/LU Services Manager.** *sense* **((***instance***) Module name: {DFHZSTU})**

Explanation: The master terminal operator issued a CEMT command to release the logical unit (LU).

For the meaning of *sense*, see message DFHZC2400.

System action: The LU is closed. Any task associated with the LU is terminated either abnormally (if the master terminal operator so desired) or normally.

User response: None.

Module: DFHZSTU

XMEOUT Parameters: *date, time,applid, termid, tranid, netname, sense, instance, {1=DFHZSTU}*

Destination: CSNE

DFHZC3465E *date time applid termid tranid* **Unexpected response received.** *sense* **((***instance***) Module name {DFHZRLP | DFHZRVX | DFHZRAC})**

Explanation: CICS received a positive response in one of the following circumstances

- The response was to data sent with exception response
- The response was to a command sent with exception response
- The response was to a send to which a response has already been sent.

For the meaning of *sense*, see message DFHZC2400.

System action: All outstanding send and receive requests are purged. If a task is attached, it is abnormally terminated with a transaction dump. The node is placed out of service and the TCTTE, RPL, and action flags are logged to CSNE.

User response: Ensure that the application programs running concurrently do not alter the TCTTE. Check that the SNA flows on the session are valid and that the logical unit is not violating SNA protocols.

Module: DFHZRVX, DFHZRAC, DFHZRLP

XMEOUT Parameters: *date, time,applid, termid, tranid, sense, instance, {1=DFHZRLP, 2=DFHZRVX, 3=DFHZRVX, 4=DFHZRVX, 5=DFHZRVX, 6=DFHZRAC, 7=DFHZRAC, 8=DFHZRAC, 9=DFHZRAC, 10=DFHZRAC, 11=DFHZRAC, 12=DFHZRAC}*

Destination: CSNE

DFHZC3466E *date time applid termid tranid* **Out of session during session start up .***sense* **((***instance***) Module name: {DFHZSEX | DFHZSKR})**

Explanation: A CICS master terminal command was used to put terminal *termid* out of service while session startup was taking place.

For the meaning of *sense*, see message DFHZC2400.

System action: The session is terminated and the TCTTE for terminal *termid* is left out of service.

User response: To establish the session for use, the master terminal operator should issue the command CEMT SET TER (*XXXX*) INS ACQ. This puts the terminal back in service, and start up the session for use.

Module: DFHZSEX, DFHZSKR

XMEOUT Parameters: *date, time,applid, termid, tranid, sense, instance, {1=DFHZSEX, 2=DFHZSKR}*

Destination: CSNE

DFHZC3467E *date time applid termid tranid* **Permanent insufficient resource.** *sense* **((***instance***) Module name {DFHZNAC})**

Explanation: The PS buffer resource required by load PS is not available.

For the meaning of *sense*, see message DFHZC2400.

System action: If a task is attached, it is abnormally terminated with a transaction dump.

User response: Look at the CSNE log. A second message with a sense received code of 084C should have been issued. Refer to this message in the *VTAM Programming* manual for full details.

Module: DFHZNAC

XMEOUT Parameters: *date, time,applid, termid, tranid, sense, instance, {1=DFHZNAC}*

Destination: CSNE

DFHZC3468E *date time applid termid tranid* **CLEAR command received.** *sense* **((***instance***) Module name: {DFHZSCX})**

Explanation: An SNA clear command was received by the node. The other end of the session was unable to handle the current requests for some reason, and purged any outstanding messages on the session.

For the meaning of *sense*, see message DFHZC2400.

System action: The session is canceled immediately, and any transaction executing on that session is also abnormally terminated and a transaction dump is produced.

User response: Check the other end of the session to determine why the clear command was sent. It may be due to a lack of buffers in the z/OS Communications Server region attached to the other session.

Module: DFHZSCX

XMEOUT Parameters: *date, time,applid, termid, tranid, sense, instance, {1=DFHZSCX}*

Destination: CSNE

DFHZC3469E *date time applid termid tranid* **Session re-establishment being awaited.** *sense* **((***instance***) Module name: {DFHZSCX})**

Explanation: The secondary LU is being passed to a new application program via CLSDST(PASS).

For the meaning of *sense*, see message DFHZC2400.

System action: If a task is attached, it is abnormally terminated with a transaction dump.

User response: None.

Module: DFHZSCX

XMEOUT Parameters: *date, time,applid, termid, tranid, sense, instance, {1=DFHZSCX}*

Destination: CSNE

DFHZC3470E *date time applid termid tranid* **LU session failure caused by:** *{restart/takeover. LU does not support ACTLU(ERP). | route extension to cluster failed. | LU abend, discontact, DACTPU or ANS. }sense* **((***instance***) Module name: {DFHZSCX})**

Explanation: An LU session has failed because an UNBIND command has been received.

Possible reasons are
- Restart or takeover. LU does not support ACTLU(ERP)
- Route extension to cluster failed
- Session failed due to LU abend, disconnect, DACTPU, or ANS.

For the meaning of *sense*, see message DFHZC2400.

System action: If a task is attached, it is abnormally terminated with a transaction dump.

User response: Use the symptom string, a z/OS Communications Server trace, and the dump, if available, to determine the source of the UNBIND before attempting to reestablish the session.

Module: DFHZSCX

XMEOUT Parameters: *date, time,applid, termid, tranid, {1=restart/takeover. LU does not support ACTLU(ERP).,2=route extension to cluster failed., 3=LU abend, discontact, DACTPU or ANS. }, sense,instance, {1=DFHZSCX, 2=DFHZSCX, 3=DFHZSCX, 4=DFHZSCX}*

Destination: CSNE

DFHZC3471E *date time applid termid tranid* **Virtual route inoperative.** *sense* **((***instance***) Module name {DFHZSCX})**

Explanation: The session has been broken because the virtual route it was using has failed.

For the meaning of *sense*, see message DFHZC2400.

System action: If a task is attached, it is abnormally terminated with a transaction dump. For APPC sessions, CICS attempts to reestablish the failing session.

User response: None.

Module: DFHZSCX

XMEOUT Parameters: *date, time,applid, termid, tranid, sense, instance, {1=DFHZSCX}*

Destination: CSNE

DFHZC3472E *date time applid termid tranid* **Device end received.** *sense* **((***instance***) Module name: {DFHZSYX})**

Explanation: Device end was received from a non-SNA z/OS Communications Server supported 3270

For the meaning of *sense*, see message DFHZC2400.

System action: The good morning message is displayed, unless the terminal is associated with an active task.

User response: None.

Module: DFHZSYX

XMEOUT Parameters: *date, time,applid, termid, tranid, sense, instance, {1=DFHZSYX}*

Destination: CSNE

DFHZC3474E *date time applid termid tranid* **Virtual route deactivated.** *sense* **((***instance***) Module name {DFHZSCX})**

Explanation: The session has had to be deactivated because of a forced deactivation of the virtual route being used.

For the meaning of *sense*, see message DFHZC2400.

System action: If a task is attached, it is abnormally terminated with a transaction dump. Afterwards CICS attempts to reestablish the session.

User response: Determine the cause of the session failure and attempt to reestablish the session.

Module: DFHZSCX

XMEOUT Parameters: *date, time,applid, termid, tranid, sense, instance, {1=DFHZSCX}*

Destination: CSNE

DFHZC3475E *date time applid termid tranid* **Unrecoverable LU failure.** *sense* **((***instance***) Module name: {DFHZSCX})**

Explanation: The session has had to be deactivated because of an abnormal termination of an LU.

For the meaning of *sense*, see message DFHZC2400.

System action: If a task is attached, it is abnormally terminated with a transaction dump. Session reinitiation is not attempted.

User response: None.

Module: DFHZSCX

XMEOUT Parameters: *date, time,applid, termid, tranid, sense, instance, {1=DFHZSCX}*

Destination: CSNE

DFHZC3476E *date time applid termid tranid* **Recoverable LU failure.** *sense* **((***instance***) Module name: {DFHZSCX})**

Explanation: The session has had to be deactivated because of an abnormal termination of an LU; recovery of the session may be possible.

For the meaning of *sense*, see message DFHZC2400.

System action: If a task is attached, it is abnormally terminated with a transaction dump. CICS attempts to reinitiate the session.

User response: None.

Module: DFHZSCX

XMEOUT Parameters: *date, time,applid, termid, tranid, sense, instance, {1=DFHZSCX}*

Destination: CSNE

DFHZC3477E *date time applid termid tranid* **Cleanup received.** *sense* **((***instance***) Module name: {DFHZSCX})**

Explanation: The sending LU has reset its half-session before receiving a response from CICS; recovery of the session may be possible.

For the meaning of *sense*, see message DFHZC2400.

System action: If a task is attached, it is abnormally terminated with a transaction dump. CICS attempts to reinitiate the session.

User response: None.

Module: DFHZSCX

XMEOUT Parameters: *date, time,applid, termid, tranid, sense, instance, {1=DFHZSCX}*

Destination: CSNE

DFHZC3479E *date time applid termid tranid* **Unbind received after session failure detected.** *sense* **((***instance***) Module name: {DFHZSCX})**

Explanation: The logical unit in session with CICS has detected a session failure, and has unbound the session with CICS.

For the meaning of *sense*, see message DFHZC2400.

System action: The session is terminated, and the transaction using it is abnormally terminated or informed by return code.

User response: Determine the reason for the session failure by using Trace. Check the CSNE log for a second error message associated with DFHZC3479. This message should be located immediately after DFHZC3479.

Refer to the sense code shown in the associated message.

Module: DFHZSCX

XMEOUT Parameters: *date, time,applid, termid, tranid, sense, instance, {1=DFHZSCX, 2=DFHZSCX}*

Destination: CSNE

DFHZC3480E *date time applid termid tranid* **Session could not be started due to insufficient CICS nucleus function - ISC not loaded.** *sense* **((***instance***) Module name: {DFHZSIM | DFHZBLX | DFHZLGX})**

Explanation: A session initiation has been attempted to an APPC system or terminal. The session cannot be established because the CICS ISC nucleus modules are required.

For the meaning of *sense*, see message DFHZC2400.

System action: The session initiation request is rejected.

User response: If APPC connections are to be used, ensure that ISC=NO is not used for CICS initialization.

Module: DFHZSCX, DFHZLGX, DFHZSIM

XMEOUT Parameters: *date, time,applid, termid, tranid, sense, instance, {1=DFHZSIM, 2=DFHZBLX, 3=DFHZLGX}*

Destination: CSNE

DFHZC3481 E *date time applid termid tranid* **3270 Data Stream protocol error.** *sense* **((***instance***) Module name {DFHZRVX | DFHZRAC})**

Explanation: CICS has received zero length data from a device defined to CICS as a 3270 terminal. This violates the protocol for 3270 devices.

For the meaning of *sense*, see message DFHZC2400.

System action: CICS cancels the session and any transactions attached to the terminal.

User response: Determine why zero length data was received from a device purporting to be a 3270 terminal, and correct the error.

The most likely reasons are an incorrect resource definition for the terminal, or incorrect programming of a terminal that is simulating 3270 protocols.

Module: DFHZRAC, DFHZRVX

XMEOUT Parameters: *date, time,applid, termid, tranid, sense, instance, {1=DFHZRVX, 2=DFHZRAC}*

Destination: CSNE

DFHZC3482E *date time applid tranid* **Logon from node** *nodeid* **rejected. Insufficient storage for autoinstall request.** *sense* **((***instance***) Module name: {DFHZLGX | DFHZBLX | DFHZSCX})**

Explanation: A node *nodeid*, unknown to CICS, attempted to logon. CICS could not obtain sufficient storage to complete autoinstall processing.

For the meaning of *sense*, see message DFHZC2400.

System action: CICS rejects the logon request.

User response: Retry the logon.

Module: DFHZLGX, DFHZSCX, DFHZBLX

XMEOUT Parameters: *date, time,applid, tranid, nodeid, sense, instance, {1=DFHZLGX, 2=DFHZLGX, 3=DFHZBLX, 4=DFHZSCX}*

Destination: CSNE

DFHZC3484I *date time applid netname* **is now connected to** *applid***.** *sense* **((***instance***) Module name {DFHZNSP})**

Explanation: By successful execution of an ISSUE PASS command, a z/OS Communications Server logical unit whose network name is *netname* has been passed to the z/OS Communications Server application whose VTAM APPLID (netname) is *applid*.

For the meaning of *sense*, see message DFHZC2400.

System action: CICS processing continues.

User response: None.

Module: DFHZNSP

XMEOUT Parameters: *date, time,applid, netname, applid, sense, instance, {1=DFHZNSP}*

Destination: CSNE

DFHZC3485E *date time applid netname* **A CLSDST Pass Procedure error occurred at** *applid***. Status byte** *xx* **Reason byte** *yy***.***sense* **((***instance***) Module name: {DFHZNSP})**

Explanation: In executing an ISSUE PASS command, CICS attempted to pass control of a z/OS Communications Server logical unit whose network name is *netname*, to a system whose z/OS Communications Server APPLID is *applid*. z/OS Communications Server has notified CICS of an error at *applid*.

For the meaning of *sense*, see message DFHZC2400.

System action: CICS saves the status byte *xx* and reason byte *yy* passed by z/OS Communications Server in the Notify Request Unit. CICS processing continues.

User response: The reason for the error can be determined by investigating the status byte *xx* and

reason byte *yy* given in the message. These bytes are documented in the NSEXIT routine section of *z/OS Communications Server Programming* (SC23-0115).

Module: DFHZNSP

XMEOUT Parameters: *date, time,applid, netname, applid, xx, yy, sense, instance, {1=DFHZNSP}*

Destination: CSNE

DFHZC3486E *date time applid netname* **The named LU cannot be connected for sessions at** *applid***.** *sense* **((***instance***) Module name: {DFHZSYX})**

Explanation: In executing an ISSUE PASS command, CICS attempted to pass control of a z/OS Communications Server logical unit whose network name is *netname*, to a system whose z/OS Communications Server APPLID is *applid*. z/OS Communications Server has notified CICS that *applid* is currently not available.

For the meaning of *sense*, see message DFHZC2400.

System action: Processing continues.

User response: None.

Module: DFHZSYX

XMEOUT Parameters: *date, time,applid, netname, applid, sense, instance, {1=DFHZSYX, 2=DFHZSYX}*

Destination: CSNE

DFHZC3487E *date time applid netname* **Unable to PASS to node** *nodeid***. CLSDST PASS is not authorized.** *sense* **((***instance***) Module name: {DFHZLEX})**

Explanation: In executing an ISSUE PASS command, CICS attempted to pass control of a z/OS Communications Server logical unit whose network name is *netname*. z/OS Communications Server has notified CICS that CICS is not authorized to use this function.

For the meaning of *sense*, see message DFHZC2400.

System action: CICS continues.

CICS may or may not be able to display the *applid* it was being passed. If CICS can display this *applid*, it appears in the text of this message.

User response: To use the ISSUE PASS command, you must code AUTH=PASS on the z/OS Communications Server definition of the CICS APPL, then reactivate the APPL.

Module: DFHZLEX

XMEOUT Parameters: *date, time,applid, netname, nodeid, sense, instance, {1=DFHZLEX, 2=DFHZLEX}*

Destination: CSNE

DFHZC3488E *date time applid netname* **ISC session connection failure.** *sense* **((***instance***) Module name: {DFHZSIX})**

Explanation: A simlogon request to an ISC system was rejected because the *netname* was not known. CICS has now issued the INQUIRE OPTCD=USERVAR command in order to determine if *netname* had been defined as a user variable. That INQUIRE command has been rejected because the user variable does not exist in the USERVAR table. This may be because the USERVAR is either not known or invalid, or the MODIFY USERVAR command has not been issued to define the user variable.

For the meaning of *sense*, see message DFHZC2400.

System action: CLSDST is issued to reset the session.

User response: Determine if the netname has been defined correctly to CICS. If the netname is to be used as a user variable then determine why the MODIFY USERVAR command has not been issued to set it.

Module: DFHZSIX

XMEOUT Parameters: *date, time,applid, netname, sense, instance, {1=DFHZSIX}*

Destination: CSNE

DFHZC3489E *date time applid netname* **The LU is inhibited for sessions.** *sense* **((***instance***) Module name: {DFHZSYX})**

Explanation: CICS has attempted to acquire a session to the logical unit (LU), but z/OS Communications Server has rejected the request because the LU is inhibited for sessions.

The partner LU could be inhibited because it has issued the z/OS Communications Server macro SETLOGON OPTCD=QUIESCE.

For the meaning of *sense*, see message DFHZC2400.

System action: The request is rejected and the session is set into NOINTLOG state to prevent further requests being issued.

User response: After the partner LU has enabled itself, it can initiate the session request to CICS. Alternatively, the CICS master terminal operator could reset the NOINTLOG state and allow CICS to initiate the session request.

Module: DFHZSYX

XMEOUT Parameters: *date, time,applid, netname, sense, instance, {1=DFHZSYX}*

Destination: CSNE

DFHZC3490E *date time applid netname* **Unable to pass to node** *nodeid***.** *sense* **((***instance***) Module name {DFHZLEX | DFHZSYX | DFHZCLX})**

Explanation: In executing an ISSUE PASS command, CICS attempted to pass control of the named z/OS Communications Server logical unit to a system identified as node *nodeid*. z/OS Communications Server has notified CICS that this request has failed.

This may occur if the LUNAME specified is a generic resource name and this CICS is the only system registered under this name. You are effectively passing the terminal to yourself.

However, if there is more than one CICS registered under the generic resource name, the terminal should pass successfully to another member (chosen by z/OS Communications Server) in the same resource.

For the meaning of *sense*, see message DFHZC2400.

System action: A z/OS Communications Server CLSDST macro is issued to halt communication with the node.

User response: Ensure that the node *nodeid* is defined and active to VTAM.

Module: DFHZSYX, DFHZLEX, DFHZCLX

XMEOUT Parameters: *date, time,applid, netname, nodeid, sense, instance, {1=DFHZLEX, 2=DFHZSYX, 3=DFHZCLX}*

Destination: CSNE

DFHZC3491E *date time applid netname* **Unable to make session XRF capable.** *sense* **((***instance***) Module name {DFHZLEX})**

Explanation: The active CICS system has attempted to OPNDST the session as "XRF capable", but has been refused because the Network Control Program (NCP) has insufficient space to hold the control blocks for a future backup session from the alternate CICS system.

For the meaning of *sense*, see message DFHZC2400.

System action: CICS performs a SIMLOGON, but does not deem the session to be "XRF capable". CICS therefore treats the terminal as class 2.

User response: No immediate action is necessary. You may need to increase the number of buffers in the NCP.

Module: DFHZLEX

XMEOUT Parameters: *date, time,applid, netname, sense, instance, {1=DFHZLEX}*

Destination: CSNE

DFHZC3492E *date time applid tranid* **Logon for node** *nodeid* **contained invalid NIBUSER token.** *sense* **((***instance***) Module name: {DFHZLGX})**

Explanation: DFHZLGX has been driven for SIMLOGON with a token that is no longer a valid TCTTE address.

For the meaning of *sense*, see message DFHZC2400.

System action: An unexpected condition has occurred during SIMLOGON. CICS will continue processing normally.

User response: None.

Module: DFHZLGX

XMEOUT Parameters: *date, time,applid, tranid, nodeid, sense, instance, {1=DFHZLGX}*

Destination: CSNE

DFHZC3493E *date time applid termid tranid* **Invalid device type for a print request.** *sense* **((***instance***) Module name : {DFHZARQ}**

Explanation: A print function was requested on a 3270 information display system. However, the print function was unable to find an eligible printer because the function does not support the device type.

For the meaning of *sense*, see message DFHZC2400.

System action: If no other action is specified in the Network Error Program (NEP). the print request is halted. CICS processing continues.

User response: Check that the printers specified for the information display system are valid. Valid devices are 3270P and LUTYPE3.

Module: DFHZARQ

XMEOUT Parameters: *date, time,applid, termid, tranid, sense, instance, {1=DFHZARQ}*

Destination: CSNE

DFHZC3494E *date time applid termid tranid* **Request error** *sense* **((***instance***) Module name : {DFHZNAC}**

Explanation: The request unit (RU) received by the secondary logical unit (LU) contains a request which terminal *termid* cannot handle.

For the meaning of *sense*, see message DFHZC2400.

System action: All send and receive requests are purged and transaction *tranid* is abnormally terminated with a dump.

User response: Check that the TYPETERM specifications for terminal *termid* are valid. This error could occur if, for example, QUERY was sent to a

nonqueriable 3270 defined with QUERY=COLD or QUERY=ALL.

Module: DFHZSYX

XMEOUT Parameters: *date, time, applid, termid, tranid, sense, instance, {1=DFHZNAC}*

Destination: CSNE

DFHZC3495E *date time applid* **Logon occurred for terminal with netname** *netname* **before Notify received** *sense* **((***instance***) Module name : {DFHZLGX})**

Explanation: A terminal with netname *netname* has logged on before a NOTIFY request was received for an outstanding CLSDST PASS with CLSDST=NOTIFY.

For the meaning of *sense*, see message DFHZC2400.

System action: CICS processing continues. Any subsequent NOTIFY requests for the terminal identified will be ignored.

User response: It is recommended that any user processing for CLSDST PASS messages incorporates this message.

Module: DFHZLGX

XMEOUT Parameters: *date, time,applid, netname, sense, instance, {1=DFHZLGX}*

Destination: CSNE

DFHZC3496E *date time applid* **System dump has been taken for terminal** *termid* **((***instance***) Module name: {DFHZNAC})**

Explanation: Terminal *termid* has been found to be in error by terminal control.

As terminal *termid* had no task attached to it at the time of the error, DFHZNAC was unable to cause a transaction abend with a transaction dump.

The TWAODNTA flag in the DFHZNAC-DFHZNEP commarea is set ON and DFHZNAC produces a system dump for terminal *termid* instead.

System action: An exception trace entry is made in the trace table at trace point FC73.

A system dump is produced unless you have specifically suppressed dumps in the dump table.

User response: To determine the nature of the problem that caused the dump to be taken, refer to the CSNE log. There should be an associated CICS message which will provide further information.

For more information about TWAODNTA, refer to the *CICS Customization Guide*.

Module: DFHZNAC

XMEOUT Parameters: *date, time,applid, termid, instance, {1=DFHZNAC}*

Destination: CSNE

DFHZC3497 E *date time applid* **Link to module DFHZNEP from DFHZNAC failed because** *{module DFHZNEP is not AMODE 31. | module DFHZNEP could not be loaded. | module DFHZNEP could not be autoinstalled. | of an unexpected error.}* **((***instance***) Module name {DFHZNAC})**

Explanation: While processing an error for a z/OS Communications Server terminal, CICS attempted to link to user-replaceable module DFHZNEP. The link failed.

See message DFHZC3437 for the default action or actions taken.

System action: The default action or actions set by DFHZNAC are taken.

User response: The reason for the failure is specified in the message. Possible solutions are

- Ensure that DFHZNEP is linked with AMODE 31.
- Ensure that DFHZNEP is contained in one of the data sets concatenated in the DFHRPL DD statement and has the correct name.
- Ensure that there is a valid resource definition for DFHZNEP, and that DFHZNEP can be successfully autoinstalled.

Module: DFHZNAC

XMEOUT Parameters: *date, time,applid, {1=module DFHZNEP is not AMODE 31., 2=module DFHZNEP could not be loaded., 3=module DFHZNEP could not be autoinstalled., 4=of an unexpected error.}, instance, {1=DFHZNAC}*

Destination: CSNE

DFHZC3498E *date time applid* **Abend** *abcode* **has occurred in module DFHZNEP. ((***instance***) Module name: {DFHZNAC})**

Explanation: While processing an error for a z/OS Communications Server terminal, user-replaceable module DFHZNEP was linked and the program abended with abend code *abcode*. See message DFHZC3437 for the default action or actions that are taken.

System action: Control is passed back to the calling module, DFHZNAC. DFHZNAC reinstates the default actions set before DFHZNEP was called. The actions are then taken.

User response: Refer to abend code *abcode* for details of the original error. Follow the user response given in the abend code to solve the problem.

Module: DFHZNAC

XMEOUT Parameters: *date, time,applid, abcode, instance, {1=DFHZNAC}*

Destination: CSNE

DFHZC3499E *date time applid* **OS Getmain failure in module DFH***modname* **with return code** *X'return_code'* **while attempting to process message DFHZC***message_number***.** *sense* **((***instance***) Module name: {DFHZLEX | DFHZSHU | DFHZSCX | DFHZSYX | DFHZTPX | DFHZRAC | DFHZATA | DFHZLGX})**

Explanation: An error has been detected by module *modname*. The OS GETMAIN request by this module has failed with return code X'*return_code*, and as a result, the diagnostic information relating to the original error has not been saved and cannot be processed by DFHZNAC.

The only information available for diagnosis of the error is *message_number* which is the number of the message that would have been issued had the OS GETMAIN request not failed.

For the meaning of *sense*, see message DFHZC2400.

System action: Processing continues normally.

User response: Refer to message *message_number* for further guidance.

Refer to the *MVS System Programming Library: Macro Reference* for the meaning of the OS GETMAIN return code.

Module: DFHZATA, DFHZLGX, DFHZRAC, DFHZSCX, DFHZSHU, DFHZTPX, DFHZLEX, DFHZSYX

XMEOUT Parameters: *date, time,applid, modname, X'return_code',message_number, sense, instance,{1=DFHZLEX, 2=DFHZSHU, 3=DFHZSCX, 4=DFHZSCX, 5=DFHZSYX, 6=DFHZSYX, 7=DFHZTPX, 8=DFHZRAC, 9=DFHZRAC, 10=DFHZATA, 11=DFHZLGX, 12=DFHZLGX}*

Destination: CSNE

DFHZC4900I *date time applid termid tranid* **CNOS** *{sent to | received from}* **Node** *netname* **System** *sysid* **Modename** *modename***, Max =** *n1***, Win=***n2***,** *{race detected | successful | values amended | modename not recognized | modename closed | CNOS failed}***. ((***instance***) Module name: {DFHZGCN})**

Explanation: A CHANGE-NUMBER-OF-SESSIONS command has been sent or received. The inserts are identified as follows

- *sysid* is the system identifier.
- *modename* is the modename.
- *n1* is the maximum session count.
- *n2* is the maximum source contention winner sessions.

If the "values amended" option is displayed, the values of the *n1* (maximum session count) and *n2* (maximum source contention winner sessions) have been renegotiated by the target system.

If the "race detected" option is displayed, the CNOS command could not be implemented because the modename *modename* was already locked for a CNOS command from the other system.

If a modename of ALL is produced, it has been set internally by CICS and all of the modegroups for this connection will be affected by the CNOS command.

If the "CNOS failed" option is displayed, the CNOS command could not be implemented because the modename lock was still held on the remote system when a second CNOS command was sent by this CICS, as the CNOS race winner, following a previous CNOS race condition.

System action: The negotiated values are applied.

User response: None.

Module: DFHZGCN

XMEOUT Parameters: *date, time,applid, termid, tranid, {1=sent to, 2=received from}, netname, sysid, modename, n1,n2, {1=race detected, 2=successful, 3=values amended, 4=modename not recognized, 5=modename closed, 6=CNOS failed}, instance, {1=DFHZGCN}*

Destination: CSNE

DFHZC4901I *date time applid termid tranid* **Node** *netname* **System** *sysid* **Modename** *modename***, Negotiated values: Max=***n1***, Win=***n2***. ((***instance***) Module name: {DFHZGCN})**

Explanation:

- *modename* is the modename,
- *n1* is the maximum session count,
- *n2* is the maximum source contention winner sessions.

This message follows message DFHZC4900 when the maximum session count (*n1*) and the maximum source contention winner sessions (*n2*) have been renegotiated.

If a modename of ALL is produced, it has been set internally by CICS and all of the modegroups for this connection will be affected by the CNOS command.

System action: The negotiated values are applied.

User response: None.

Module: DFHZGCN

XMEOUT Parameters: *date, time,applid, termid, tranid, netname, sysid, modename, n1,n2, instance, {1=DFHZGCN}*

Destination: CSNE

DFHZC4902E *date time applid termid tranid* **Attach FMH or subfield length error.** *sense* **((***instance***) Module name {DFHZATT})**

Explanation: A request to attach a task has been received across an APPC link. However, there is an error in the function management header (FMH) length or in the length of one of the subfields. As a result, CICS is unable to determine which task to attach.

For the meaning of *sense*, see message DFHZC2400.

System action: The task is abnormally terminated with a dump.

User response: The remote APPC system is sending an invalid attach header (FMH type 5). Use the supplied dump to determine the error and investigate the cause at the remote system.

Module: DFHZATT

XMEOUT Parameters: *date, time,applid, termid, tranid, sense, instance, {1=DFHZATT, 2=DFHZATT, 3=DFHZATT, 4=DFHZATT, 5=DFHZATT, 6=DFHZATT, 7=DFHZATT}*

Destination: CSNE

DFHZC4903E *date time applid termid tranid* **Attach FMH not found.** *sense* **((***instance***) Module name: {DFHZATT | DFHZRAC})**

Explanation: A request to attach a task has been received across an APPC link. However, no APPC attach header has been found at the start of the input data stream.

For the meaning of *sense*, see message DFHZC2400.

System action: The task is abnormally terminated with a dump.

User response: The remote APPC system is failing to send a valid attach header (FMH type 5). Use the supplied dump to determine the error and investigate the cause at the remote system.

Module: DFHZATT, DFHZRAC

XMEOUT Parameters: *date, time,applid, termid, tranid, sense, instance, {1=DFHZATT, 2=DFHZATT, 3=DFHZRAC}*

Destination: CSNE

DFHZC4904E *date time applid termid tranid* **Bracket FSM error.** *sense* **((***instance***) Module name: {DFHZRLP | DFHZSDL | DFHZSLX | DFHZRAC})**

Explanation: The bracket finite state machine (FSM) has reported an error in the use of APPC bracket protocols.

For the meaning of *sense*, see message DFHZC2400.

System action: The task is abnormally terminated with a dump.

Message DFHME0116 should be produced containing the symptom string for this problem.

User response: If this message occurs after a persistent sessions restart, look for associated messages for more guidance. The problem might be temporary.

If this message occurs during normal system execution, you will need further assistance from IBM. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHZRAC, DFHZRLP, DFHZSDL, DFHZSLX

XMEOUT Parameters: *date, time,applid, termid, tranid, sense, instance, {1=DFHZRLP, 2=DFHZRLP, 3=DFHZRLP, 4=DFHZRLP, 5=DFHZSDL, 6=DFHZSDL, 7=DFHZSLX, 8=DFHZSLX, 9=DFHZSLX, 10=DFHZSLX, 11=DFHZSLX, 12=DFHZSLX, 13=DFHZRAC, 14=DFHZRAC, 15=DFHZRAC}*

Destination: CSNE

DFHZC4905E *date time applid termid tranid* **Chain FSM error.** *sense* **((***instance***) Module name: {DFHZRLP | DFHZDET | DFHZERH | DFHZSDL | DFHZSLX | DFHZRAC})**

Explanation: The chain finite state machine (FSM) has reported an error in the use of APPC chaining protocols.

For the meaning of *sense*, see message DFHZC2400.

System action: The task is abnormally terminated with a dump.

Message DFHME0116 should be produced containing the symptom string for this problem.

User response: If this message occurs after a persistent sessions restart, look for associated messages for more guidance. The problem might be temporary.

If this message occurs during normal system execution, investigate any transactions running on the session at the time of failure because the error can be caused by using both the LAST and WAIT options on an EXEC CICS SEND command in an APPC DTP application. This combination of parameters is not recommended. See the *CICS Distributed Transaction Programming Guide* for more information. If this is not the cause of the problem, you will need further assistance from IBM. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHZRAC, DFHZRLP, DFHZSDL, DFHZSLX, DFHZERH, DFHZDET

XMEOUT Parameters: *date, time,applid, termid, tranid, sense, instance, {1=DFHZRLP, 2=DFHZRLP, 3=DFHZRLP, 4=DFHZRLP, 5=DFHZRLP, 6=DFHZRLP, 7=DFHZRLP, 8=DFHZDET, 9=DFHZERH, 10=DFHZSDL,*

11=DFHZSDL, 12=DFHZSLX, 13=DFHZSLX, 14=DFHZSLX, 15=DFHZSLX, 16=DFHZSLX, 17=DFHZSLX, 18=DFHZSLX, 19=DFHZSLX, 20=DFHZSLX, 21=DFHZSLX, 22=DFHZRAC, 23=DFHZRAC, 24=DFHZRAC, 25=DFHZRAC, 26=DFHZRAC, 27=DFHZRAC, 28=DFHZRAC}

Destination: CSNE

DFHZC4906E *date time applid termid tranid* **Contention FSM error.** *sense* **((***instance***) Module name: {DFHZDET | DFHZRAC | DFHZRLP | DFHZCLS})**

Explanation: The contention finite state machine (FSM) has reported an error in the use of APPC contention protocols.

For the meaning of *sense*, see message DFHZC2400.

System action: The task is abnormally terminated with a dump.

Message DFHME0116 should be produced containing the symptom string for this problem.

User response: If this message occurs after a persistent sessions restart, look for associated messages for more guidance. The problem might be temporary.

If this message occurs during normal system execution, you will need further assistance from IBM. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHZRAC, DFHZRLP, DFHZDET, DFHZCLS DFHZCC

XMEOUT Parameters: *date, time,applid, termid, tranid, sense, instance, {1=DFHZDET, 2=DFHZRAC, 3=DFHZRAC, 4=DFHZRAC, 5=DFHZRAC, 6=DFHZRAC, 7=DFHZRAC, 8=DFHZRAC, 9=DFHZRAC, 10=DFHZRAC, 11=DFHZRLP, 12=DFHZRAC, 13=DFHZRAC, 14=DFHZRAC, 15=DFHZRAC, 16=DFHZRAC, 17=DFHZCLS}*

Destination: CSNE

DFHZC4907E *date time applid termid tranid* **Invalid request to send data routine.** *sense* **((***instance***) Module name {DFHZSDL})**

Explanation: DFHZSDL was entered, but no valid request was passed to it.

For the meaning of *sense*, see message DFHZC2400.

System action: The task is abnormally terminated with a dump.

Message DFHME0116 should be produced containing the symptom string for this problem.

User response: You need further assistance from IBM to resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHZSDL

XMEOUT Parameters: *date, time,applid, termid, tranid, sense, instance, {1=DFHZSDL, 2=DFHZSDL, 3=DFHZSDL, 4=DFHZSDL, 5=DFHZSDL}*

Destination: CSNE

DFHZC4909E *date time applid termid tranid* **Invalid request to receive data routine.** *sense* **((***instance***) Module name {DFHZRVL})**

Explanation: DFHZRVL was entered, but no valid request was passed.

For the meaning of *sense*, see message DFHZC2400.

System action: The task is abnormally terminated with a dump.

Message DFHME0116 should be produced containing the symptom string for this problem.

User response: You need further assistance from IBM to resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHZRVL

XMEOUT Parameters: *date, time,applid, termid, tranid, sense, instance, {1=DFHZRVL}*

Destination: CSNE

DFHZC4910E *date time applid termid tranid* **Receive buffer too small.** *sense* **((***instance***) Module name: {DFHZRVL})**

Explanation: The receive buffer passed to DFHRVL is too small to accommodate a maximum size request unit.

For the meaning of *sense*, see message DFHZC2400.

System action: The task will be abnormally terminated with a dump.

Message DFHME0116 should be produced containing the symptom string for this problem.

User response: You need further assistance from IBM to resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHZRVL

XMEOUT Parameters: *date, time,applid, termid, tranid, sense, instance, {1=DFHZRVL, 2=DFHZRVL, 3=DFHZRVL, 4=DFHZRVL}*

Destination: CSNE

DFHZC4911E *date time applid termid tranid* **LU6.2 exception response received.** *sense* **((***instance***) Module name {DFHZRLP})**

Explanation: A non-process-level exception response has been received.

For the meaning of *sense*, see message DFHZC2400.

System action: The task is abnormally terminated with a dump.

User response: Incorrect flows have been received on an APPC session. The CICS trace gives further details of the flow. Try to recreate the error by running a z/OS Communications Server trace TYPE=IO/BUF to obtain complete details of the line flow.

Module: DFHZRLP

XMEOUT Parameters: *date, time,applid, termid, tranid, sense, instance, {1=DFHZRLP}*

Destination: CSNE

DFHZC4912E *date time applid termid tranid* **BID received with invalid DFC indicators.** *sense* **((***instance***) Module name {DFHZRLP | DFHZRAC})**

Explanation: BID with data received, but not OIC.

For the meaning of *sense*, see message DFHZC2400.

System action: The task is abnormally terminated.

User response: Incorrect flows have been received on an APPC session. The CICS trace gives further details of the flow. It may help to run a z/OS Communications Server trace TYPE=IO/BUF and repeat the error to obtain complete details of the line flow.

Module: DFHZRAC, DFHZRLP

XMEOUT Parameters: *date, time,applid, termid, tranid, sense, instance, {1=DFHZRLP, 2=DFHZRAC, 3=DFHZRAC}*

Destination: CSNE

DFHZC4913E *date time applid termid tranid* **BID with data received with invalid DFC indicators.** *sense* **((***instance***) Module name: {DFHZRLP})**

Explanation: A BID with data was received in an invalid state for rejection.

For the meaning of *sense*, see message DFHZC2400.

System action: The task is abnormally terminated.

User response: Incorrect flows have been received on an APPC session. The CICS trace gives further details of the flow. It may help to run a z/OS Communications Server trace TYPE=IO/BUF and repeat the error to obtain complete details of the line flow.

Module: DFHZRLP

XMEOUT Parameters: *date, time,applid, termid, tranid, sense, instance, {1=DFHZRLP, 2=DFHZRLP, 3=DFHZRLP, 4=DFHZRLP}*

Destination: CSNE

DFHZC4914E *date time applid termid tranid* **Data length exceed max RU size.** *sense* **((***instance***) Module name {DFHZRLP})**

Explanation: The record length received exceeds the buffer length.

For the meaning of *sense*, see message DFHZC2400.

System action: The task is abnormally terminated.

User response: Incorrect flows have been received on an APPC session. The CICS trace gives further details of the flow. It may help to run a z/OS Communications Server trace TYPE=IO/BUF and repeat the error to obtain complete details of the line flow.

Module: DFHZRLP

XMEOUT Parameters: *date, time,applid, termid, tranid, sense, instance, {1=DFHZRLP}*

Destination: CSNE

DFHZC4915E *date time applid termid tranid* **EOC received with invalid DFC indicators.** *sense* **((***instance***) Module name {DFHZRLP})**

Explanation: An end chain was received with invalid DFC indicators.

For the meaning of *sense*, see message DFHZC2400.

System action: The task is abnormally terminated.

User response: Incorrect flows have been received on an APPC session. The CICS trace gives further details of the flow. It may help to run a z/OS Communications Server trace TYPE=IO/BUF and repeat the error to obtain complete details of the line flow.

Module: DFHZRLP

XMEOUT Parameters: *date, time,applid, termid, tranid, sense, instance, {1=DFHZRLP}*

Destination: CSNE

DFHZC4916E *date time applid termid tranid* **Send response failed.** *sense* **((***instance***) Module name: {DFHZRLP})**

Explanation: A response, sent to acknowledge successful receipt of data, was rejected by VTAM.

For the meaning of *sense*, see message DFHZC2400.

System action: The task is abnormally terminated with a dump.

Message DFHME0116 should be produced containing the symptom string for this problem.

User response: You need further assistance from IBM to resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHZRLP

XMEOUT Parameters: *date, time,applid, termid, tranid, sense, instance, {1=DFHZRLP}*

Destination: CSNE

DFHZC4917E *date time applid termid tranid* **BIS received with invalid DFC indicators.** *sense* **((***instance***) Module name {DFHZRLP})**

Explanation: Bracket initiation stopped (BIS) received with invalid DFC flags.

For the meaning of *sense*, see message DFHZC2400.

System action: The task is abnormally terminated.

User response: Incorrect flows have been received on an APPC session. The CICS trace will give further details of the flow. It may help to run a z/OS Communications Server trace TYPE=IO/BUF and repeat the error to obtain complete details of the line flow.

Module: DFHZRLP

XMEOUT Parameters: *date, time,applid, termid, tranid, sense, instance, {1=DFHZRLP, 2=DFHZRLP}*

Destination: CSNE

DFHZC4918E *date time applid termid tranid* **Unexpected response received.** *sense* **((***instance***) Module name {DFHZRLP})**

Explanation: An unexpected response was received that was either a positive response to data of a previous bracket, or a response to a command that cannot be accepted when the logical unit is in "continue specific" mode.

For the meaning of *sense*, see message DFHZC2400.

System action: The task is abnormally terminated.

User response: Incorrect flows have been received on a APPC session. The CICS trace will give further details of the flow. It may help to run a z/OS Communications Server trace TYPE=IO/BUF and repeat the error to obtain complete details of the line flow.

Module: DFHZRLP

XMEOUT Parameters: *date, time,applid, termid, tranid, sense, instance, {1=DFHZRLP, 2=DFHZRLP, 3=DFHZRLP, 4=DFHZRLP, 5=DFHZRLP}*

Destination: CSNE

DFHZC4919E *date time applid termid tranid* **Invalid indicators received.** *sense* **((***instance***) Module name: {DFHZARL | DFHZARER})**

Explanation: An indicator other than CD, CEB, RQD2, or error response has been received.

For the meaning of *sense*, see message DFHZC2400.

System action: The task is abnormally terminated with a dump.

Message DFHME0116 should be produced containing the symptom string for this problem.

User response: You need further assistance from IBM to resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHZARL, DFHZARER, DFHZARL

XMEOUT Parameters: *date, time,applid, termid, tranid, sense, instance, {1=DFHZARL, 2=DFHZARL, 3=DFHZARL, 4=DFHZARL, 5=DFHZARER}*

Destination: CSNE

DFHZC4920E *date time applid termid tranid* **Invalid data received.** *sense* **((***instance***) Module name: {DFHZERH | DFHZARL | DFHZARER})**

Explanation: Data received from the remote system or terminal is not in correct generalized data stream (GDS) format.

For the meaning of *sense*, see message DFHZC2400.

System action: The task is abnormally terminated with a dump.

Message DFHME0116 should be produced containing the symptom string for this problem.

User response: You need further assistance from IBM to resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHZARL, DFHZARER, DFHZERH

XMEOUT Parameters: *date, time,applid, termid, tranid, sense, instance, {1=DFHZERH, 2=DFHZERH, 3=DFHZERH, 4=DFHZERH, 5=DFHZERH, 6=DFHZERH, 7=DFHZARL, 8=DFHZARL, 9=DFHZARL, 10=DFHZARER, 11=DFHZARER, 12=DFHZARER}*

Destination: CSNE

DFHZC4921E *date time applid sysid* **LU services manager failure. R15 =***X'xxxxx'* **R0 =***X'yyyyy'*

Explanation: An error situation has been detected during the operation of the LU services manager transaction program (DFHLUP).

Registers 15 and 0 are set to indicate the nature of the error as shown below

```
Register 15 = X'0'   Task invalidly started ...
  Register 0 = X'3'   ... via a perm transid.
  Register 0 = X'4'   ... by a TD trigger.
  Register 0 = X'5'   ... without data.
  Register 0 = >X'6'   ... or is out of range of
```

```
                      a valid start code for this
                      service
Register 15 = X'4'   Call code did not match a
                     supported function (1-5).
 Register 0 = call code
Register 15 = X'8'   Invalid parameters passed
                     for this function.
 Register 0 = keyword #
Register 15 = X'0C'  Function-specific checks
                     failed for this keyword.
 Register 0 = keyword #
Register 15 = X'10'  No input data supplied.
 Register 0 = ^0     The IC_GET for the TS START
                     data failed.
 Register 0 = X'0'   The LUTYPE6.2 RECEIVE
                     returned data
                     length=0.
Register 15 = X'14'  The GDS-ID is not for XLN.
 Register 0 = GDS-ID
```

System action: The task is allowed to complete but the required function is not executed.

Message DFHME0116 should be produced containing the symptom string for this problem.

User response: If one of the errors mentioned above has occurred, try to discover the reason for the failure. If you fail in this, you will need further assistance from IBM. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHLUP

XMEOUT Parameters: *date, time,applid, sysid, X'xxxxx', X'yyyyy'*

Destination: CSNE

DFHZC4922E *date time applid termid tranid* **Single session shutdown with DRAIN=CLOSE.** *sense* **((***instance***) Module name: {DFHZRAC | DFHZGDA | DFHZERH})**

Explanation: The connected logical unit has sent Bracket Initiation Stopped (BIS) and can accept no more work.

For the meaning of *sense*, see message DFHZC2400.

System action: If a conversation was active, it is treated as though rollback had occurred on it for full syncpoint (syncpoint level 2), or as session failure for confirm-level syncpoint (syncpoint level 1).

If there was no conversation, it is treated as a BID failure (as for 0813 sense code).

User response: None.

Module: DFHZRAC, DFHZGDA, DFHZERH

XMEOUT Parameters: *date, time,applid, termid, tranid, sense, instance, {1=DFHZRAC, 2=DFHZGDA, 3=DFHZERH}*

Destination: CSNE

DFHZC4923I *date time applid termid tranid* **Conversation abnormally terminated by transaction end in system** *sysid*

Explanation: Transaction *tranid*, engaged in an SNA session with a CICS system, issued a command that was inconsistent with the transaction's current state in the conversation.

System action: The conversation terminates and CICS sends this message to the connected logical unit at the nonfailing end of the conversation.

The application in system *sysid* abnormally terminates with an abend.

User response: Correct the application program. To find the command in error, use the state diagrams in the *CICS Intercommunication Guide*.

Module: DFHZARL

XMEOUT Parameters: *date, time,applid, termid, tranid, sysid*

Destination: CSMT

DFHZC4924E *date time applid termid tranid* **Bind security password missing or invalid.** *sense* **((***instance***) Module name: {DFHZOPX | DFHZBLX | DFHZSCX})**

Explanation: Bind-time security data sent to CICS by its partner LU is missing or invalid. CICS's password for the partner LU system differs from the partner's password for CICS. This can be caused by an attempt to sign on to CICS by an unauthorized user.

For the meaning of *sense*, see message DFHZC2400.

System action: The bind is rejected.

User response: Check that an unauthorized user has not tried to log on to CICS. Ensure that the unsuccessful connection is correctly defined to CICS (using RDO or the DFHTCT macro) and to its partner LU system. Ensure that the security requirements are equal at both partners, that is, both have security off, or both have security on. A mismatch is one cause of this message.

Module: DFHZSCX, DFHZOPX, DFHZBLX

XMEOUT Parameters: *date, time,applid, termid, tranid, sense, instance, {1=DFHZOPX, 2=DFHZBLX, 3=DFHZBLX, 4=DFHZBLX, 5=DFHZBLX, 6=DFHZOPX, 7=DFHZOPX, 8=DFHZOPX, 9=DFHZOPX, 10=DFHZSCX}*

Destination: CSNE

DFHZC4925E *date time applid termid tranid* **Inconsistent attach security required.** *sense* **((***instance***) Module name: {DFHZOPX | DFHZOPN})**

Explanation: This message can be issued for any of the reasons listed below.
1. CICS has received a bind request specifying attach time security requirements different from those specified in the first bind.
2. CICS has received a bind requesting persistent verification.
3. CICS has received a bind which does not include an SNA functional management header (FMH12).

For the meaning of *sense*, see message DFHZC2400.

System action: CICS rejects the bind.

User response: CICS does NOT allow subsequent binds to specify different security requirements from the first bind. It will not support persistent verification on input either.

Where applicable, alter your applications to meet these requirements.

Module: DFHZOPX, DFHZOPN

XMEOUT Parameters: *date, time,applid, termid, tranid, sense, instance, {1=DFHZOPX, 2=DFHZOPN, 3=DFHZOPN, 4=DFHZOPX}*

Destination: CSNE

DFHZC4926E *date time applid termid tranid* **Bind security encryption error.** *sense* **((***instance***) Module name {DFHZEV1 | DFHZEV2})**

Explanation: CICS detected an error while verifying an encrypted bind security password.

For the meaning of *sense*, see message DFHZC2400.

System action: CICS rejects the bind.

User response: Investigate the CSNE and CSMT logs.

Find out whether an unauthorized user tried to log on to CICS, or whether an authorized user entered his password incorrectly.

Module: DFHZEV1, DFHZEV2

XMEOUT Parameters: *date, time,applid, termid, tranid, sense, instance, {1=DFHZEV1, 2=DFHZEV2, 3=DFHZEV1}*

Destination: CSNE

DFHZC4927E *date time applid termid tranid* **Bind FMH response error.** *sense* **((***instance***) Module name: {DFHZRAC})**

Explanation: CICS received a bind with bind security without an FMH12.

For the meaning of *sense*, see message DFHZC2400.

System action: CICS rejects the bind.

Message DFHME0116 should be produced containing the symptom string for this problem.

User response: This is an error either in CICS or in SNA. Keep the CSNE and CSMT logs. You need further assistance from IBM to resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHZRAC

XMEOUT Parameters: *date, time,applid, termid, tranid, sense, instance, {1=DFHZRAC, 2=DFHZRAC, 3=DFHZRAC, 4=DFHZRAC}*

Destination: CSNE

DFHZC4928E *date time applid termid tranid* **Bind security GETMAIN of a TIOA failed.** *sense* **((***instance***) Module name: {DFHZEV1})**

Explanation: CICS required a TIOA work area for bind security validation, but the GETMAIN failed because insufficient storage was available.

System action: CICS rejects the bind.

User response: Consider increasing the size of the CICS region or reducing the number of concurrent CICS tasks (MXT parameter in the system initialization table).

Module: DFHZEV1

XMEOUT Parameters: *date, time,applid, termid, tranid, sense, instance, {1=DFHZEV1}*

Destination: CSNE

DFHZC4929 *date time applid termid tranid* **Invalid or unsupported BIND for logmode** *logmode***. Response** *X'response'***, Reason** *X'reason'* **((***instance***) Module** *{DFHZOPN}***)**

Explanation: CICS has detected an error while validating the BIND supplied by z/OS Communications Server for a CICS typeterm definition defined with LOGMODE=0 or LOGMODE=*logmode*.

The *response* code indicates

X'04' The BIND supplied does not match the TCTTE – detected by DFHZBANS.

X'08' The BIND supplied is unsupported – detected by DFHZBANV.

X'0C' The BIND supplied is invalid – detected by DFHZBANV.

The *reason* code for a response of X'04' is as follows

X'1B' Unsupported TCTTE type or not z/OS Communications Server

X'1C' No NIB descriptor chained from TCTTE

X'1D' No BMS extension chained from TCTTE

X'1E' Same as for reason code X'1D

X'1F' LU6.2 BIND, but TCTTE does not match.

The *reason* code for a response of X'08' or X'0C' is as follows:

Reason Hex	Invalid byte	Explanation
1	3	Should be hex 02, 03, 04 or 07
2-8	4|5|6|7	Invalid for this FM profile
9	2	Should be hex 00, 02, 03, 04, 07, 13 or 14
0A,0D,10	1	Invalid for LUTYPE 1,2 or 3 - must be hex 01
0B	4|5|6|7	Invalid for LUTYPE 1
0C	22	Invalid for LUTYPE 1
0E	4|5|6|7	Invalid for LUTYPE 2
0F	24	Invalid for LUTYPE 2 should be hex 00, 01, 02, 03, 7E, or 7F
11	4|5|6|7	Invalid for LUTYPE 3
12	24	Invalid for LUTYPE 3 should be hex 00, 01, 02, 03, 7E, or 7F
13	16	Invalid for LUTYPE 6.2
14	23	Invalid for LUTYPE 6.2
15-18	24	Invalid for LUTYPE 6.2
19	15	Should be hex 00 or 02
1A	14	Should be hex 00, 01, 02, 03, 06
1B and over	User Data	The reason code matches the byte position in the BIND for the error detected. These can be - Session ID length unsupported - should be 3 to 11 - PLU/SLU name length unsupported - should be 2 to 19 - PLU/SLU defined twice - Length invalid - Session qualifier pairs have inconsistent lengths.

System action: CICS rejects the logon request. The BIND being validated is printed with this message.

User response: Use the response and reason codes and the printed BIND, together with the z/OS Communications Server definition of the BIND for the relevant LOGMODE to determine the reason for the rejection.

Either change the logmode or use a different one that matches CICS requirements.

Module: DFHZOPN

XMEOUT Parameters: *date, time, applid, termid, tranid, logmode, X'response', X'reason', instance, {1=DFHZOPN}*

Destination: CSMT

DFHZC4930E *date time applid termid tranid* **Session unbound following read timeout.** *sense* **((***instance***) Module name {DFHZARL | DFHZARER})**

Explanation: A READ timeout has occurred on the SNA link. SNA unbinds the session and CICS returns control to the application program. This allows the program to override the system action (for example, the program could free the APPC session).

For the meaning of *sense*, see message DFHZC2400.

System action: CICS abends the task abnormally with a dump.

User response: This is probably a network problem caused by a high level of network traffic. To avoid this problem, increase the Read Timeout (RTIMOUT) to a sufficiently high value to compensate for the level of network traffic. Alternatively, this problem may have arisen simply because the partner application failed to respond due to a programming error. If this is the case, correct the partner application and retry the request.

Module: DFHZARL, DFHZARER.

XMEOUT Parameters: *date, time,applid, termid, tranid, sense, instance, {1=DFHZARL, 2=DFHZARL, 3=DFHZARER}*

Destination: CSNE

DFHZC4931E *date time applid termid tranid* **VTAM detected bad logmode name.** *sense* **((***instance***) Module name {DFHZLEX})**

Explanation: Either a MODENAME passed to z/OS Communications Server during an attempt to bind an APPC session is not known to z/OS Communications Server, or the logmode name of a z/OS Communications Server 3270-type terminal is not valid.

For the meaning of *sense*, see message DFHZC2400.

System action: CICS places the session permanently out of service and for APPC, the mode entry is flagged unusable.

User response: Either redefine the sessions using a MODENAME that is known to z/OS Communications Server, or add the MODENAME to the z/OS Communications Server LOGMODE table. Alternatively, if the logmode name specified for a z/OS Communications Server terminal is invalid, redefine the terminal entry using the correct name.

Module: DFHZLEX

XMEOUT Parameters: *date, time,applid, termid, tranid, sense, instance, {1=DFHZLEX}*

Destination: CSNE

DFHZC4932E *date time applid termid tranid* **Invalid conversation type requested.** *sense* **((***instance***) Module name: {DFH62XM})**

Explanation: A request to attach a task has been received across an APPC link. However, there is an error in the conversation type field. It must be TYPE=MAPPED or TYPE=UNMAPPED.

For the meaning of *sense*, see message DFHZC2400.

System action: The task is abended and a dump is produced. The session is unbound.

User response: The remote APPC system sends an invalid attach header (FMH Type 5). Use the supplied dump to determine the error and investigate the cause at the remote system.

Module: DFH62XM

XMEOUT Parameters: *date, time,applid, termid, tranid, sense, instance, {1=DFH62XM}*

Destination: CSNE

DFHZC4933E *date time applid termid tranid* **Invalid DBA requested.** *sense* **((***instance***) Module name: {DFH62XM})**

Explanation: A request to attach a task has been received across an APPC link. However, there is an error in the DBA field.

For the meaning of *sense*, see message DFHZC2400.

System action: The task abends and a dump is produced. The session is unbound.

User response: The remote APPC system sends an invalid attach header (FMH Type 5). Use the supplied dump to determine the error and investigate the cause at the remote system.

Module: DFH62XM

XMEOUT Parameters: *date, time,applid, termid, tranid, sense, instance, {1=DFH62XM}*

Destination: CSNE

DFHZC4934E *date time applid termid tranid* **Invalid syncpoint level requested.** *sense* **((***instance***) Module name {DFH62XM})**

Explanation: A request to attach a task has been received across an APPC link. However, the synchronization level requested is invalid.

For the meaning of *sense*, see message DFHZC2400.

System action: The task abends and a dump is produced.

User response: The remote APPC system sends an invalid attach header (FMH Type 5). Use the supplied dump to determine the error and investigate the cause at the remote system. Check the sync level in the ATTACH header against that in the BIND.

Module: DFH62XM

XMEOUT Parameters: *date, time,applid, termid, tranid, sense, instance, {1=DFH62XM}*

Destination: CSNE

DFHZC4935E *date time applid termid tranid* **Invalid UOWID supplied.** *sense* **((***instance***) Module name: {DFH62XM})**

Explanation: A request to attach a task has been received across an APPC link and either the unit of work ID is invalid, or no UOWID was received when the sync point level required it.

For the meaning of *sense*, see message DFHZC2400.

System action: The task abends and a dump is produced. The session is unbound.

User response: The remote APPC system sends an invalid attach header (FMH Type 5). Use the supplied dump to determine the error and investigate the cause at the remote system.

Module: DFH62XM

XMEOUT Parameters: *date, time,applid, termid, tranid, sense, instance, {1=DFH62XM, 2=DFH62XM, 3=DFH62XM, 4=DFH62XM, 5=DFH62XM, 6=DFH62XM}*

Destination: CSNE

DFHZC4936E *date time applid termid tranid* **Attach FMH or subfield length error.** *sense* **((***instance***) Module name {DFH62XM})**

Explanation: A request to attach a task has been received across an APPC link. However, there is an error in the FMH length or in the length of one of the sub-fields. This results in CICS being unable to determine which task to attach.

The instance *instance* is one of the following

1 The FMH Length is not equal to the length of the fixed length portion + the length of all the sub fields.

2 The Conversation Correlator length within the FMH is greater than 8.

For the meaning of *sense*, see message DFHZC2400.

System action: The task abends and a dump is produced.

User response: The remote APPC system sends an invalid attach header (FMH Type 5). Use the supplied dump to determine the error and investigate the cause at the remote system.

Module: DFH62XM

XMEOUT Parameters: *date, time,applid, termid, tranid, sense, instance, {1=DFH62XM, 2=DFH62XM}*

Destination: CSNE

DFHZC4937E *date time applid* **SAF request for LU6.2 bind has been rejected. Return Codes from the Security Manager are: RF=** *X'rf'* **and R0=** *X'r0' sense* **((***instance***) Module name: {DFHZOPN | DFHZEV1 | DFHZEV2})**

Explanation: A security authorization facility (SAF) request to extract APPC bind-time security information from the external security manager (ESM) has been rejected with return code RF=X'*rf*. and RO=X'*r0*.

This is due either to the ESM being inactive or to the appropriate APPC profile not being defined to the ESM.

For the meaning of *sense*, see message DFHZC2400.

System action: CICS rejects the bind.

User response: Refer to the ESM manuals appropriate to your system to obtain information about the meanings of any return codes which may have been produced by the ESM.

If you are using RACF as your security manager, refer to the RACXTRT macro guidance documented in the *System Programming Library RACF* manual for the meaning of the return codes.

If the appropriate APPC profile had not been defined to the ESM, define the profile, perform a CICS security rebuild and then attempt to reestablish the APPC connection.

Module: DFHZEV1, DFHZEV2, DFHZOPN

XMEOUT Parameters: *date, time,applid, X'rf', X'r0', sense, instance, {1=DFHZOPN, 2=DFHZOPN, 3=DFHZOPN, 4=DFHZOPN, 5=DFHZOPN, 6=DFHZOPN, 7=DFHZOPN, 8=DFHZOPN, 9=DFHZEV1, 10=DFHZEV1, 11=DFHZEV1, 12=DFHZEV1, 13=DFHZEV2, 14=DFHZEV2, 15=DFHZEV2, 16=DFHZEV2}*

Destination: CSNE

DFHZC4938E *date time applid* **SAF request for LU6.2 bind has failed with ESM return code RF=** *X'rf'* **and reason code R0=** *X'r0' sense* **((***instance***) Module name: {DFHZOPN | DFHZEV1 | DFHZEV2})**

Explanation: The external security manager (ESM) was attempting to process a security authorization facility (SAF) request. Processing has failed with return code RF=X'*rf* and reason code R0=X'*r0*.

For the meaning of *sense*, see message DFHZC2400.

System action: CICS rejects the bind.

User response: Refer to the ESM manuals appropriate to your system to obtain information about the meanings of any return codes or reason codes produced by the ESM.

If you are using RACF as your security manager, refer to the RACXTRT macro guidance documented in the *System Programming Library RACF* manual for the meaning of the return code and the reason code.

Module: DFHZEV1, DFHZEV2, DFHZOPN

XMEOUT Parameters: *date, time,applid, X'rf', X'r0', sense, instance, {1=DFHZOPN, 2=DFHZOPN, 3=DFHZEV1, 4=DFHZEV2}*

Destination: CSNE

DFHZC4939E *date time applid* **Extraction of LU6.2 security data has failed with ESM returncode RF=** *X'rf'* **and reason code R0=** *X'r0' sense* **((***instance***) Module name {DFHZOPN | DFHZEV1 | DFHZEV2})**

Explanation: A request to extract APPC bind-time security information has failed with return code RF=X'*rf* and reason code R0=X'*r0*. The profile information which was requested had not been previously defined to the external security manager (ESM).

For the meaning of *sense*, see message DFHZC2400.

System action: CICS rejects the bind.

User response: Check the profiles defined to the ESM. Create the missing APPC profile entry.

Refer to the ESM manuals appropriate to your system to obtain information about the meanings of any return codes or reason codes produced by the ESM.

If you are using RACF as your security manager, refer to the RACXTRT macro guidance documented in the *System Programming Library RACF* manual for the meaning of the return code and the reason code.

Module: DFHZEV1, DFHZEV2, DFHZOPN

XMEOUT Parameters: *date, time,applid, X'rf', X'r0', sense, instance, {1=DFHZOPN, 2=DFHZOPN, 3=DFHZEV1, 4=DFHZEV2}*

Destination: CSNE

DFHZC4940E *date time applid* **Bind time failure. No session key found in LU6.2 profile.** *sense* **((***instance***) Module name {DFHZOPN | DFHZEV1 | DFHZEV2})**

Explanation: APPC bind-time validation has failed. No session key has been found in the requested APPC profile information. When bind-time security has been defined between two logical units (LUs), a valid session key must have been defined for the encryption process.

A null session key (that is, when no key is defined) is regarded as an error.

For the meaning of *sense*, see message DFHZC2400.

System action: CICS rejects the bind.

User response: Check the profiles defined to the external security manager (ESM). Create a valid session key for the appropriate APPC profile entry. DO NOT use the NOSESSKEY ESM option for XAPPC security profiles when using RACF.

Refer to the ESM manuals appropriate to your system to obtain information about the meanings of any return and reason codes which produced by the ESM.

If you are using RACF as your security manager, refer to the RACXTRT macro guidance documented in the *System Programming Library RACF* manual for the meaning of the return code and the reason code.

Module: DFHZEV1, DFHZEV2, DFHZOPN

XMEOUT Parameters: *date, time,applid, sense, instance, {1=DFHZOPN, 2=DFHZOPN, 3=DFHZEV1,4=DFHZEV2}*

Destination: CSNE

DFHZC4941E *date time applid* **Bind time failure. LU6.2 profile locked.** *sense* **((***instance***) Module name: {DFHZOPN | DFHZEV1 | DFHZEV2})**

Explanation: The external security manager (ESM) has requested profile information during bind-time validation but the requested profile is locked. When a profile is locked no sessions can be established.

For the meaning of *sense*, see message DFHZC2400.

System action: CICS rejects the bind.

User response: Check the profiles defined to the ESM. The system administrator may have locked the profile. Request that the profile be unlocked. Try once more when the profile has been unlocked.

If you are using RACF as your security manager, refer to the RACXTRT macro guidance documented in the *System Programming Library RACF* manual for further information.

Module: DFHZEV1, DFHZEV2, DFHZOPN

XMEOUT Parameters: *date, time,applid, sense, instance, {1=DFHZOPN, 2=DFHZOPN, 3=DFHZEV1,4=DFHZEV2}*

Destination: CSNE

DFHZC4942E *date time applid* **Bind time failure. Expired LU6.2 profile found.** *sense* **((***instance***) Module name: {DFHZOPN | DFHZEV1 | DFHZEV2})**

Explanation: The external security manager (ESM) has requested profile information during bind-time validation but the requested profile has expired.

For the meaning of *sense*, see message DFHZC2400.

System action: CICS rejects the bind.

User response: Check the profiles defined to the ESM. The system administrator needs to update the required profile. Request that the profile be updated. Try once more when the profile has been updated.

If you are using RACF as your security manager, refer to the RACXTRT macro guidance documented in the *System Programming Library RACF* manual for further information.

Module: DFHZEV1, DFHZEV2, DFHZOPN

XMEOUT Parameters: *date, time,applid, sense, instance, {1=DFHZOPN, 2=DFHZOPN, 3=DFHZEV1,4=DFHZEV2}*

Destination: CSNE

DFHZC4943E *date time applid termid tranid* **RPL B FSM error.** *sense* **((***instance***) Module name: {DFHZSDL})**

Explanation: The finite state machine (FSM), for the APPC alternate RPL (RPL 'B'), has detected an error in the use of the RPL.

For the meaning of *sense*, see message DFHZC2400.

System action: The task is abnormally terminated with abend code ATNI and a dump is produced.

User response: If this message occurs when z/OS Communications Server is terminating, it is not a serious problem and usually no response is necessary.

If this message occurs during normal system execution, you will need further assistance from IBM. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHZSDL

XMEOUT Parameters: *date, time,applid, termid, tranid, sense, instance, {1=DFHZSDL}*

Destination: CSNE

DFHZC4944 *date time applid termid tranid* **Protocol Violation detected within bind security indicators.** *sense* **((***instance***) MODULE NAME: {DFHZBLX | DFHZOPX})**

Explanation: CICS has detected an error while validating the bind security specification. LOCAL security has been specified, but the bind contains data that indicates NON LOCAL security.

For the meaning of *sense*, see message DFHZC2400.

System action: CICS rejects the bind.

User response: Ensure that the correct data is sent in

the bind for the required type of security.

Module: DFHZSCX, DFHZOPX, DFHZBLX

XMEOUT Parameters: *date, time,applid, termid, tranid, sense, instance, {1=DFHZBLX, 2=DFHZBLX, 3=DFHZOPX, 4=DFHZOPX}*

Destination: CSMT

DFHZC4945E *date time applid termid tranid* **Session unbind request due to the forcepurge of a task.** *sense* **((***instance***) Module name: {DFHZARER})**

Explanation: A task was purged or forcepurged while it was suspended, waiting for an ISC request to complete.

For the meaning of *sense*, see message DFHZC2400.

System action: An unbind is requested for the session against which the ISC request was waiting and the task is abended A FORCEPURGE command causes the task to be abended irrespective of the state of the session. Other z/OS Communications Server error messages may result from this action.

User response: Investigate the reasons the task was purged or forcepurged because it may have been the result of an application error. In addition, the partner task in the connected CICS system will have session failure notification returned on the next ISC request after the session has been unbound. Check that the partner task has handled the situation.

Module: DFHZARER

XMEOUT Parameters: *date, time,applid, termid, tranid, sense, instance, {1=DFHZARER}*

Destination: CSNE

DFHZC4946E *date time applid termid tranid* **Invalid attach parameter was received.** *sense* **((***instance***) Module name {DFH62XM})**

Explanation: A request to attach a task has been received across an APPC link. However there is an error in the FMH attach parameters. An attach parameter is present that is not authorized by the bind security indicators.

The *instance* data can take the following values

instance	**Meaning**
1	The bind security indicators show that the connection is defined as ATTACHSEC(LOCAL) indicating that this LU does not accept any security parameters in an attach from the partner LU. One or more of the following security parameters has been found: Userid, Password, Profile, AV, PV1 and PV2.
2	An already-verified (AV) indicator has been received in an attach from the partner LU, but the bind security indicators show that this LU does not support the receipt of the AV indicator.
3	A persistent verification signon (PV2) indicator, or a persistent verification signed-on (PV1) indicator, has been received in an attach from the partner LU, but the bind security indicators show that this LU does not support the receipt of the PV indicators.

System action: The task abends and a dump is produced and the session is unbound. An exception trace point (number 1737) for component TF is issued, tracing the invalid attach header (FMH type 5).

User response: Investigate the cause of the error which is in the remote system. Use the FMH5 in the exception trace to determine why the remote system sent an invalid attach request.

Module: DFH62XM

XMEOUT Parameters: *date, time,applid, termid, tranid, sense, instance, {1=DFH62XM, 2=DFH62XM, 3=DFH62XM}*

Destination: CSNE

DFHZC4947E *date time applid termid tranid* **Attach time security check has failed. Security not valid.** *sense* **((***instance***) Module name: {DFH62XM})**

Explanation: A request to attach a task has been received over an APPC link. However the FMH5 attach parameters do not conform to the APPC protocol.

The *instance* data can take the following values

instance	**Meaning**
1	Unrecognized access security subfield
2	Multiple userid access security subfields present
3	Multiple profile access security subfields present
4	Multiple password access security subfields present
5	Userid required in FMH but not received
6	PV1 and PV2 security indicators both present in FMH5
7	Password received when AV indicator set
8	Password received when PV1 indicator set
9	Password required for PV2 but not received.

System action: The attach request is rejected and the session is unbound. An exception trace point (number 1737) for component TF is issued tracing the invalid

attach header (FMH type 5).

User response: Investigate the cause of the error which is in the remote system. Use the FMH5 in the exception trace, to determine why the remote system sent an invalid attach request.

If the remote system has an earlier release of CICS or CICS on another platform and the sense value given is 5 then you may need to set USEDFLTUSER. See 'Attach Time Security and the USEDFLTUSER option' in chapter 12 of the *CICS RACF Security Guide*.

Module: DFH62XM, DFHZGXA

XMEOUT Parameters: *date, time,applid, termid, tranid, sense, instance, {1=DFH62XM, 2=DFH62XM, 3=DFH62XM, 4=DFH62XM, 5=DFH62XM, 6=DFH62XM, 7=DFH62XM, 8=DFH62XM, 9=DFH62XM}*

Destination: CSNE

DFHZC4948E *date time applid* **An error has been detected when processing an***{ unknown | inbound | outbound}{ request. | Persistent Verify Signoff request. | Persistent Verify Timeout request.}* **Transaction** *tranid* **is***{ continuing. | terminating. | terminating abnormally.}* **Error code:** *X'xxxxx'* **Connection:** *yyyy*

Explanation: An error has been detected during the execution of transaction CLS3. The error code indicates the nature of the error

X'01' Transaction CLS3 issued an unsuccessful communications request on an APPC session.

X'02' Transaction CLS3 was started by a START command with data, but the format of the data was incorrect.

X'04' Transaction CLS3 is attempting to send a signoff request to a remote system, but the connection to the remote system is not an APPC connection.

X'06' Transaction CLS3 was not started by terminal input, nor by a START command.

X'09' Transaction CLS3 was started by a START command with data, but the data could not be retrieved.

X'0A' Transaction CLS3 is attempting to send a signoff request to a remote system, but there is no connection to the remote system.

X'0B' Transaction CLS3 unsuccessfully attempted to allocate an APPC session to a remote system.

System action: Depending upon the nature of the event that gave rise to the message, the transaction continues execution, terminates normally, or terminates abnormally. The message text indicates which action is being taken.

User response: This depends upon the error code:

X'01' Determine why the communications request on the APPC session failed. Possible reasons are
- There has been a session failure.
- The connected transaction has abended.

This error produces an exception trace, which helps to determine the cause of the problem.

X'02' Ensure that transaction CLS3 was started by CICS-supplied code, and not by application code. If it was started by CICS-supplied code, contact your IBM Support Center.

X'04' Check the connection definition for the remote system. It should be an APPC connection.

X'06' Ensure that transaction CLS3 was started by CICS-supplied code, and not by application code. If it was started by CICS-supplied code, contact your IBM Support Center.

X'09' Determine why the data could not be retrieved. If you are unable to do so, contact your IBM Support Center

X'0A' Ensure that the connection has been correctly defined

X'0B' Ensure that the connection is acquired and in service

Module: DFHCLS3

XMEOUT Parameters: *date, time, applid, {1= unknown, 2= inbound, 3= outbound}, {1= request., 2=Persistent Verify Signoff request., 3=Persistent Verify Timeout request.}, tranid, {1= continuing., 2= terminating., 3= terminating abnormally.}, X'xxxxx', yyyy*

Destination: CSNE

DFHZC4949E *date time applid termid tranid netname* **Receive Any stall -** *{data lost. | response lost. | command lost. }***CLSDST return code** *X'rc' sense* **((***instance***) Module name {DFHZRAC})**

Explanation: All the CICS Receive Any RPLs have been posted but the TCTTE for each one is waiting for a response from a z/OS Communications Server terminal or session. All the Receive Any RPLs have been stalled for 10 dispatches of the TCP task (CSTP). This message is produced for each session that is in this situation. A z/OS Communications Server session has not responded to a command such as BID or SHUTD sent by CICS. This is typically caused by a protocol error.

System action: CICS is running with system initialization parameter RAPOOL=(n,n,FORCE) causing CICS to issue a z/OS Communications Server CLSDST against the session, which causes the TCTTE's RPL to be completed and the session to be unbound.

The default NEP action is CLSDST, which causes CICS to clean up the TCTTE after the pending command has been terminated.

The Receive Any data received is discarded and the RA RPL is reissued.

User response: Investigate the reason why the command has not completed. The TCTTE RPL is printed with the message.

It is important to look at any earlier DFHZC4949 messages because of the asynchronous nature of DFHZNAC. If the CLSDST has not completed, the RPL printed will be active and will show the RPL that can not complete. If the CLSDST has completed when DFHZNAC runs, the RPL printed will have a RTNCD/FDB2 of X'0C0B but RPLREQ still shows what command would not complete.

If the CLSDST return code *rc* is non 0, the CLSDST macro has failed in DFHZRAC and the session remains hung. You may be able to free the session by using z/OS Communications Server command V NET,INACT,ID=netname,I. You can find the reason for the CLSDST failure by looking at the RPL in the AP FC90 trace point for the CLSDST.

Module: DFHZRAC

XMEOUT Parameters: *date, time,applid, termid, tranid, netname, {1=data lost. , 2=response lost. , 3=command lost. }, X'rc', sense, instance, {1=DFHZRAC, 2=DFHZRAC, 3=DFHZRAC}*

Destination: CSNE

DFHZC4950E *date time applid* **An error has occurred when attempting to attach the outbound Connection Quiesce Protocol transaction CQPO on session** *termid***. Release of connection** *sysid* **is continuing. ((***instance***) Module name: {DFHZCLS})**

Explanation: An error has been detected while attempting to attach the outbound transaction for the Connection Quiesce Protocol (CQPO) on an APPC session.

System action: The release of the connection continues, but the Connection Quiesce Protocol will take place only if the partner system successfully initiates it.

User response: Determine why transaction CQPO failed to attach. If you have installed the correct definition for the transaction, you should never see this message, and you may need to contact your IBM Support Center for assistance.

If the partner system did not initiate the Connection Quiesce Protocol, you may need to determine if there are units of work awaiting resync, or z/OS Communications Server affinities to be ended before you can INITIAL start either of the connected systems.

Module: DFHZCLS

XMEOUT Parameters: *date, time,applid, termid, sysid, instance, {1=DFHZCLS}*

Destination: CSNE

DFHZC4951E *date time applid* **An error has been detected when processing an***{ unknown | inbound | outbound}* **Connection Quiesce Protocol request. Transaction** *tranid* **is***{ continuing. | terminating. | terminating abnormally.}* **Error code** *X'xxxxx'* **Connection:** *yyyy*

Explanation: An error has been detected during the execution of transaction *tranid*. The error code indicates the nature of the error

X'01' Transaction *tranid* was not started by terminal input, nor by an internal CICS command.

X'02' Transaction *tranid* was started by an inbound FMH5, but the TPN was not the correct value for the Connection Quiesce Protocol.

X'03' Transaction *tranid* issued an unsuccessful communications request on an APPC session.

X'04' Transaction *tranid* has been attached by an inbound FMH5. The format of the data received from the remote system did not comply with the architecture for the Connection Quiesce Protocol.

X'05' Transaction *tranid* has received an unexpected response from the Recovery Manager.

X'06' Transaction *tranid* has been attached by an internal CICS command and has sent a Connection Quiesce Protocol request to the remote system. The format of the reply received from the remote system did not comply with the architecture for the Protocol.

X'07' Transaction *tranid* was started, but its principal facility is not a terminal or session.

System action: Depending upon the nature of the event that gave rise to the message, the transaction continues execution, terminates normally, or terminates abnormally. The message text indicates which action is being taken.

User response: This depends upon the error code

X'01, 02, 07
Ensure that transaction *tranid* was started by CICS-supplied code, and not by application code. If it was started by CICS-supplied code, contact your IBM Support Center.

X'03' Determine why the communications request on the APPC session failed. Possible reasons are
- There has been a session failure.
- The connected transaction has abended.

This error produces an exception trace, which helps to determine the cause of the problem.

In other cases, contact your IBM Support Center.

Module: DFHCLS5

XMEOUT Parameters: *date, time, applid, {1= unknown, 2= inbound, 3= outbound}, tranid, {1=continuing., 2= terminating., 3=terminating abnormally.}, X'xxxxx', yyyy*

Destination: CSNE

DFHZC5900E *date time applid* **System** *sysid* **has shipped definitions but connection** *cccc* **is not known to this system.**

Explanation: CICS has received definitions from remote system *sysid*, but cannot find a connection named *cccc*.

System action: CICS continues.

User response: If you want these definitions to be accepted, install the necessary connection using CEDA, and retransmit the definitions from the remote system.

Module: DFHBSTZ1, DFHBSTZ2

XMEOUT Parameters: *date, time,applid, sysid, cccc*

Destination: CSMT

DFHZC5901E *date time applid* **Install for** *resource* **failed.** *xxxx* **could not obtain** *yyyy* **storage**

Explanation: When installing resource *resource*, CICS module *xxxx* could not get storage for the extent specified by the value of *yyyy*.

System action: CICS continues.

User response: If possible, increase the size of your CICS address space. Otherwise, consider reducing the number of resources used in one CICS run.

Module: DFHBSMIR, DFHBSMPP, DFHBSM62, DFHBSS, DFHBSSZM, DFHBSTS, DFHBSTB, DFHBSTB3, DFHBSTC, DFHBSTZ, DFHBSTZB, DFHBSTZO, DFHBSTZR, DFHBSTZV, DFHBSTZ1, DFHBSTZ2, DFHBSZZS

XMEOUT Parameters: *date, time,applid, resource, xxxx, yyyy*

Destination: CSMT

DFHZC5902E *date time applid* **Deletion of terminal** *termid* **failed. BMS Paging session still active**

Explanation: CICS cannot delete terminal *termid* because a BMS paging session is still active for the terminal.

System action: CICS continues.

User response: Sign on to terminal *termid* and purge the pages.

Module: DFHBSTB

XMEOUT Parameters: *date, time,applid, termid*

Destination: CSMT

DFHZC5903E *date time applid* **Deletion of terminal** *termid* **failed. CICS logic error**

Explanation: CICS cannot delete the terminal *termid*, because the CICS batch data attach function (DIP) is still active for this terminal.

System action: CICS continues. A system dump is taken with dumpcode ZC5903. Message DFHME0116 should be produced containing the symptom string for this problem.

User response: You need further assistance from IBM to resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHBSTD

XMEOUT Parameters: *date, time,applid, termid*

Destination: CSMT

DFHZC5904E *date time applid* **Deletion of terminal** *termid* **failed. CEDF is still active**

Explanation: CICS cannot delete the terminal *termid* because an EDF session is still active for this terminal.

System action: CICS continues.

User response: Deactivate EDF for the terminal, and reinstall the group.

Module: DFHBSTE

XMEOUT Parameters: *date, time,applid, termid*

Destination: CSMT

DFHZC5905E *date time applid* **Deletion of terminal** *termid* **failed. CICS logic error**

Explanation: CICS cannot delete terminal *termid* because the command level interface is still active for this terminal.

System action: CICS continues. A system dump is taken with dumpcode ZC5905. Message DFHME0116 should be produced containing the symptom string for this problem.

User response: You need further assistance from IBM to resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHBSTH

XMEOUT Parameters: *date, time,applid, termid*

Destination: CSMT

DFHZC5906E *date time applid* **Install failed because '***xxxx***' is not a permitted value for a terminal or connection name**

Explanation: A name of hexadecimal zeros has been used for a TERMINAL or CONNECTION definition.

This is a reserved value. CICS has failed to install the terminal or connection.

xxxx is the reserved value converted to printable hexadecimal. The error has probably been made using autoinstall.

System action: CICS continues.

User response: Correct the definition to use a valid name and reinstall the group.

Module: DFHBSS, DFHBSTZ, DFHBSTZ1, DFHBSTZ2 DFHBSMPP

XMEOUT Parameters: *date, time,applid, xxxx*

Destination: CSMT

DFHZC5907E *date time applid* **Deletion of remote shipped terminal failed for connection** *cccc***.**

Explanation: During the deletion of connection *cccc*, the connection was found to have shipped remote terminals. The deletion of one or more of these shipped remote terminals has failed.

System action: CICS continues.

User response: See message DFHZC5915 for further information.

Use CEMT to release the connection and put it OUT OF SERVICE, then retry the install of the connection.

Module: DFHBSSZ

XMEOUT Parameters: *date, time,applid, cccc*

Destination: CSMT

DFHZC5908E *date time applid* **Install for terminal** *termid* **failed. The security manager gave return code** *retcode*

Explanation: CICS cannot install terminal *termid*. DFHXSMN gave the return code *retcode*.

System action: CICS continues.

User response: Check the value of the return code *retcode* in the *CICS Customization Guide*.

Module: DFHBSTS

XMEOUT Parameters: *date, time,applid, termid, retcode*

Destination: CSMT

DFHZC5909E *date time applid* **Install of resource** *resource* **failed. Call to DFHIRP** *irp_function Return_code* **did not succeed, See DFHIRSDS for return code.**

Explanation: When installing resource *resource*, the CICS module DFHBSSZR made a call to an IR service *irp_function* which failed due to the specified return code,

System action: CICS continues. The MRO connection *resource* is not installed.

User response: For an explanation of the return code, see DFHIRSDS in the *CICS Data Areas* manual.

Also see the user response section of message DFHIR3780. This gives a list of reasons why starting IRC can fail. However, some of the reasons are now also applicable when adding an IRC connection when IRC is OPEN. For instance a return code of E8 is issued if you add an IRC connection when cross memory is requested on the new connection but is not being used on any existing connection and when the CICS DB2 attachment has been initialized.

Module: DFHBSSZR

XMEOUT Parameters: *date, time,applid, resource, irp_function,Return_code*

Destination: CSMT

DFHZC5911E *date time applid* **Install for resource** *resource* **failed. Connection** *cccc* **not found**

Explanation: CICS could not find the connection *cccc* associated with resource *resource*.

System action: CICS continues.

User response: Install connection *cccc*.

Module: DFHBSMIR

XMEOUT Parameters: *date, time,applid, resource, cccc*

Destination: CSMT

DFHZC5912E *date time applid* **Install for terminal** *termid* **failed. It is incompatible with connection** *cccc*

Explanation: The terminal *termid* and the connection *cccc* are mutually incompatible.

System action: CICS continues.

User response: Modify your definition of *termid* or *cccc*.

Module: DFHBSTZ, DFHBSTZ2

XMEOUT Parameters: *date, time,applid, termid, cccc*

Destination: CSMT

DFHZC5913E *date time applid* **Deletion of node** *id* **failed.** *{A table entry is locked. | A table entry was not found. | There was a logic error.}* **Table=***tabname* **Key(***key***) Module(***modname***) Instance=***inst***.**

Explanation: CICS cannot delete node *id*. The message explains the reason for the failure.

1. One of its TMP table entries is locked by other tasks.
2. A TMP table entry could not be found, possibly because the node was already deleted by another task.
3. There was a CICS logic error. A DFHTM0002 error message may have been issued as well.

The TMP table entry is identified by *tabname*. The key used in the table has a value *key*. The module that issued the message is identified by *modname* and the instance of the message in that module by *inst*.

System action: The resource is not deleted. If the entry was locked, CICS issues one or more message DFHZC5980.

User response: Choose the action which corresponds to the reason identified in the message

1. See message DFHZC5980 for further information and guidance.
2. If the node is deleted, no action is needed. If the node exists, determine whether it was replaced while this request was running. If the entry exists and has not been replaced, you will need assistance from IBM. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.
3. You need further assistance from IBM to resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHBSS, DFHBSSZ, DFHBSTZ, DFHBSTZ1, DFHBSTZ2, DFHBSTZV, DFHBSTZS, DFHBSTZZ

XMEOUT Parameters: *date, time,applid, id, {1=A table entry is locked., 2=A table entry was not found., 3=There was a logic error.}, tabname, key, modname, inst*

Destination: CSMT

DFHZC5914E *date time applid* **Deletion of terminal** *termid* **found another deletion of it in progress**

Explanation: CICS has failed to delete terminal *termid* because it is already marked as pending deletion.

It is likely that a CEDA user is installing this terminal.

System action: CICS continues.

User response: Check if a CEDA user is installing the terminal.

Module: DFHBSMIR, DFHBSMPP, DFHBSS, DFHBSTZ

XMEOUT Parameters: *date, time,applid, termid*

Destination: CSMT

DFHZC5915E *date time applid* **Deletion of node** *id* **failed.** *{The node is still in service. | The system entry is still in service. | The node has a task attached.}* **Module(***modname***).**

Explanation: CICS cannot delete node *id* The reason is identified in the message.

1. The terminal or session is still in service.
2. The system entry of this session is still in service.
3. A task is still attached to this terminal or session.

The module issuing the message is identified as *modname*.

System action: CICS continues and does not delete the node.

User response: Before retrying the deletion or replacement, perform the action which corresponds to the reason given in the message.

1. Set the node OUT OF SERVICE
2. Set the system entry OUT OF SERVICE.
3. Wait for activity to cease for this node.

Module: DFHBSMIR, DFHBSTZ, DFHBSTZP

XMEOUT Parameters: *date, time,applid, id, {1=The node is still in service., 2=The system entry is still in service., 3=The node has a task attached.}, modname*

Destination: CSMT

DFHZC5916E *date time applid* **Deletion of terminal** *termid* **failed. It has pending DFHZCP activity**

Explanation: CICS cannot delete resource *termid* because DFHZCP activity is pending for this terminal. The resource could be a session belonging to a connection or a terminal TCTTE.

System action: CICS continues.

User response: Use exception trace point AP FCDE to determine what sort of activity is pending.

If this indicates that the z/OS Communications Server CLSDST command is in progress, z/OS Communications Server could be trying to contact a nonexistent or unavailable resource (indicated by NETNAME in the CEDA definition for the resource). In this case, wait for a few minutes and retry the reinstall or discard. If you have access to the JOBLOG, message DFHZC3462 for the resource in question indicates that the CLSDST has finished.

If the resource is a terminal, put the terminal briefly

into service and then take it out of service again, using the CEMT transaction.

Module: DFHBSTZA

XMEOUT Parameters: *date, time,applid, termid*

Destination: CSMT

DFHZC5917E *date time applid* **Deletion of terminal** *termid* **failed. Error message writer still active**

Explanation: CICS cannot delete terminal *termid* because the error message writer is still active for this terminal.

System action: CICS continues.

User response: Put the terminal briefly into service and then take it out of service again, using the CEMT transaction.

Module: DFHBSTZE

XMEOUT Parameters: *date, time,applid, termid*

Destination: CSMT

DFHZC5918E *date time applid* **Deletion of terminal** *termid* **Console** *consname* **failed. It has pending DFHZCP activity.**

Explanation: The MVS console *consname* has outstanding activity that prevents its deletion.

System action: CICS continues.

User response: After replying to any outstanding replies requested of this console, put the console briefly into service and then take it out of service again, using the CEMT transaction.

Module: DFHBSTZO

XMEOUT Parameters: *date, time,applid, termid, consname*

Destination: CSMT

DFHZC5919E *date time applid* **Deletion of terminal** *termid* **failed. CICS logic error**

Explanation: CICS cannot delete terminal *termid* because of an error in disconnecting remote terminals.

System action: CICS continues. A system dump is taken with dumpcode ZC5919. Message DFHME0116 should be produced containing the symptom string for this problem.

User response: You need further assistance from IBM to resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHBSSZ

XMEOUT Parameters: *date, time,applid, termid*

Destination: CSMT

DFHZC5920E *date time applid* **Install of terminal** *termid* **failed. CICS logic error**

Explanation: This CICS system failed to install terminal *termid*. No terminals can be accepted yet because the system does not have a local system entry. There was probably a failure during CICS initialization.

System action: CICS continues. A system dump is taken with dumpcode ZC5920. Message DFHME0116 should be produced containing the symptom string for this problem.

User response: You need further assistance from IBM to resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHBSTZ

XMEOUT Parameters: *date, time,applid, termid*

Destination: CSMT

DFHZC5921 E *date time applid* **Install of terminal** *termid* **failed. VTAM support not loaded.**

Explanation: CICS failed to install terminal *termid* because CICS was initialized without z/OS Communications Server support.

System action: CICS continues processing.

User response: To use z/OS Communications Server, shut down CICS and restart with the system initialization parameter VTAM=YES, a TCT that does not specify ACCMETH=NONVTAM, and appropriate RDO terminal definitions.

Module: DFHBSZZV

XMEOUT Parameters: *date, time,applid, termid*

Destination: CSMT

DFHZC5923E *date time applid* **Install for terminal** *termid* **failed. CICS logic error**

Explanation: CICS failed to install terminal *termid* because the bind-image was invalid.

System action: CICS continues. A system dump is taken with dumpcode ZC5923. Message DFHME0116 should be produced containing the symptom string for this problem.

User response: You need further assistance from IBM to resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHBSZZV

XMEOUT Parameters: *date, time,applid, termid*

Destination: CSMT

DFHZC5924E *date time applid* **Install for terminal** *termid* **failed. CICS logic error**

Explanation: CICS failed to install terminal *termid* because the TCTTE contained no node information block (NIB) descriptor.

System action: CICS continues. A system dump is taken with dumpcode ZC5924. Message DFHME0116 should be produced containing the symptom string for this problem.

User response: You need further assistance from IBM to resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHBSZZV

XMEOUT Parameters: *date, time,applid, termid*

Destination: CSMT

DFHZC5925E *date time applid* **Deletion of connection** *cccc* **failed. Its AID-Chains are not empty**

Explanation: CICS did not delete connection *cccc* because the AID-chains for the remote system *cccc* are not empty.

System action: CICS continues.

User response: Using the CEMT transaction, put the connection into service to allow the outstanding AIDs to be processed. Then take the connection out of service to allow deletion.

Module: DFHBSSA

XMEOUT Parameters: *date, time,applid, cccc*

Destination: CSMT

DFHZC5926E *date time applid* **Install for connection** *cccc* **failed. CICS logic error**

Explanation: CICS did not install the connection *cccc* because DFHZCP received no DATASTREAM operand.

System action: CICS continues. A system dump is taken with dumpcode ZC5926. Message DFHME0116 should be produced containing the symptom string for this problem.

User response: You need further assistance from IBM to resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHBSSZ6

XMEOUT Parameters: *date, time,applid, cccc*

Destination: CSMT

DFHZC5927E *date time applid* **Install for connection** *cccc* **failed. CICS logic error**

Explanation: CICS did not install the connection *cccc* because DFHZCP did not receive a RECORDFORMAT operand.

System action: CICS continues. A system dump is taken with dumpcode ZC5927. Message DFHME0116 should be produced containing the symptom string for this problem.

User response: You need further assistance from IBM to resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHBSSZ6

XMEOUT Parameters: *date, time,applid, cccc*

Destination: CSMT

DFHZC5930E *date time applid* **Remote connection (***sysid***) could not be deleted because it was in use by** *number* **sessions.**

Explanation: When remote connection *sysid* was being deleted, it was still in use by *number* of sessions.

System action: The resource is not deleted. CICS continues.

User response: Wait until access to this remote connection has quiesced and then retry the deletion.

Module: DFHBSTZ2

XMEOUT Parameters: *date, time,applid, sysid, number*

Destination: CSMT

DFHZC5931E *date time applid* **Install for modename** *modename* **failed. Maximum number of APPC sessions would have been exceeded**

Explanation: CICS did not install a SESSIONS definition using MODENAME *modename* because it would have exceeded the maximum number of permitted sessions.

The maximum number of sessions depends on whether the PTF shipped for APAR PQ27823 is installed. The basic limit is 46656 and the names are in the range -AAA to -999. The APAR doubles this limit to 93312 giving an additional range of AAA- to 999-.

System action: CICS continues.

User response: Either wait for the system to become less busy, or delete some APPC sessions.

The system programmer should consider increasing the number of CICS TORs.

Module: DFHBSM61

XMEOUT Parameters: *date, time,applid, modename*

Destination: CSMT

DFHZC5932E *date time applid* **Install for modename** *modename* **failed. Connection** *cccc* **not found**

Explanation: CICS did not install a SESSIONS definition using MODENAME *modename* because of an unknown name *cccc* in the CONNECTION parameter.

System action: CICS continues.

User response: Install connection *cccc*.

Module: DFHBSM62

XMEOUT Parameters: *date, time,applid, modename, cccc*

Destination: CSMT

DFHZC5933E *date time applid* **Install for modename** *modename* **failed. Connection** *cccc* **is not valid here**

Explanation: CICS did not install a SESSIONS definition using MODENAME *modename* because the CONNECTION is not valid in this context.

System action: CICS continues.

User response: Modify your definition of remote system *cccc*.

Module: DFHBSM62

XMEOUT Parameters: *date, time,applid, modename, cccc*

Destination: CSMT

DFHZC5934E *date time applid* **Install for modename** *modename* **failed. Single-session connection** *cccc* **is already in use.**

Explanation: CICS did not install a SESSIONS definition using MODENAME *modename* because the single-session CONNECTION *cccc* is already in use.

System action: CICS continues.

User response: Modify the definition of *cccc*.

Module: DFHBSM61, DFHBSM62

XMEOUT Parameters: *date, time,applid, modename, cccc*

Destination: CSMT

DFHZC5936E *date time applid* **Install for modename** *modename* **failed. Connection** *cccc* **has active modegroup** *xxxx*

Explanation: CICS has not installed a SESSIONS definition with MODENAME *modename* because the connection *cccc* already has an active MODEGROUP, *xxxx*.

System action: CICS continues.

User response: Put the connection briefly into service and then take it out of service again, using the CEMT transaction.

Module: DFHBSM62

XMEOUT Parameters: *date, time,applid, modename, cccc, xxxx*

Destination: CSMT

DFHZC5937I *date time applid* **Deletion of modename** *modename* **found another deletion of it in progress**

Explanation: CICS has not deleted a SESSIONS definition with MODENAME *modename* because the definition is already pending deletion.

System action: CICS continues.

User response: Check if a CEDA user was installing the SESSIONS definition.

Module: DFHBSM62

XMEOUT Parameters: *date, time,applid, modename*

Destination: CSMT

DFHZC5938E *date time applid* **Deletion of modename** *modename* **failed. Unable to delete session(s)**

Explanation: CICS is unable to delete a SESSIONS definition with MODENAME *modename* because of one or more errors reported in previous messages.

System action: CICS continues.

User response: Refer to any preceding messages for further information and guidance. Correct the reported errors.

Module: DFHBSM61

XMEOUT Parameters: *date, time,applid, modename*

Destination: CSMT

DFHZC5939E *date time applid* **Install for** *name* **failed. Duplicate session- or modegroup-name for connection** *sysid*

Explanation: CICS is unable to install a session or modegroup as the session-name or modegroup-name *name* is duplicated. The duplicate might be another connection, session, modegroup or terminal. However it might also be the local connection which has the name specified by SYSIDNT in the system initialization table.

System action: CICS continues processing, but the session or modegroup is not installed.

User response: Change the duplicated session-name or modegroup-name.

Module: DFHBSMIR, DFHBSM62

XMEOUT Parameters: *date, time,applid, name, sysid*

Destination: CSMT

DFHZC5940E *date time applid* **Install for terminal** *termid* **failed. Error console cannot be deleted**

Explanation: You have tried to replace the error console, CERR. CICS does not allow this.

System action: CICS continues with original error console.

User response: Note this restriction.

Module: DFHZCQDL

XMEOUT Parameters: *date, time,applid, termid*

Destination: CSMT

DFHZC5941E *date time applid* **Install for terminal** *termid* **failed. Console** *consname* **has a conversation outstanding**

Explanation: CICS was unable to install terminal *termid* because the console *consname* has posted an ECB.

System action: Processing continues.

User response: Put the terminal briefly into service and then take it out of service again, using the CEMT transaction.

Module: DFHBSTZO

XMEOUT Parameters: *date, time,applid, termid, consname*

Destination: CSMT

DFHZC5942E *date time applid* **Node** *nodeid* **was not installed. The addition of key** *key* **to table** *tablename* **failed. RC=***X'return'***. Module(***modname***).**

Explanation: CICS cannot install the definition of node *nodeid* because an addition to a TMP table failed. CICS was trying to add the key *key* to the table *tablename*.

The return code from TMP is given in *return*. If the return code is 4, the entry was a duplicate. It is possible that another entry was added at the same time as this entry and used the same key. If this is not the case, CICS has suffered a logic error. The module that issued the message is indicated by *modname*.

System action: CICS does not install the definition.

User response: If the entry was not overlapped by another definition which conflicted with its key, or if the return code is not 4, you will need assistance from IBM to resolve the problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHBSS, DFHBSTZ, DFHBSTZS, DFHBSTZZ, DFHBSTZ1, DFHBSTZ2

XMEOUT Parameters: *date, time,applid, nodeid, key, tablename, X'return', modname*

Destination: CSMT

DFHZC5943E *date time applid* **MRO connection** *conname* **could not be deleted because IRC is open.**

Explanation: CICS cannot delete the connection *conname* because it is an MRO connection and interregion communication (IRC) is open.

System action: The connection is not deleted.

User response: Close the IRC definition and retry the Delete or Replace.

Module: DFHBSS

XMEOUT Parameters: *date, time,applid, conname*

Destination: CSMT

DFHZC5944E *date time applid* **Install for** *type***(***id***) has failed. It would make a loop of connection definitions. Module(***modname***).**

Explanation: CICS cannot install definition of *type* called *id* because it would make a loop of connection definitions. The connection *type* may be an indirect connection or a remote connection. Indirect connections point to other connections with the INDSYS field, and remote connections point to other connections with the REMOTESYSTEM field. The module that issued the message is identified by *modname*.

System action: CICS does not install the definition.

User response: Determine the source of the loop either in the already installed definitions or in this definition, and change it before attempting to reinstall this definition.

Module: DFHBSSZI, DFHBSTZ2

XMEOUT Parameters: *date, time,applid, type, id, modname*

Destination: CSMT

DFHZC5945E *date time applid* **Deletion of sessions** *ssss* **failed. Connection** *cccc* **is defined to IRC**

Explanation: CICS has not deleted the SESSIONS definition, *ssss*, because the CONNECTION is still defined to IRC.

System action: CICS continues.

User response: Issue a CEMT SET IRC CLOSED command.

Module: DFHBSTZR

XMEOUT Parameters: *date, time,applid, ssss, cccc*

Destination: CSMT

DFHZC5946E *date time applid* **Install for sessions** *ssss* **failed. Connection** *cccc* **is defined to IRC**

Explanation: CICS has not installed the SESSIONS definition, *ssss*, because the CONNECTION is already defined to IRC.

System action: CICS continues.

User response: Issue a CEMT SET IRC CLOSED command.

Module: DFHBSTZR

XMEOUT Parameters: *date, time,applid, ssss, cccc*

Destination: CSMT

DFHZC5947E *date time applid* **Install for sessions** *ssss* **failed. CICS logic error**

Explanation: CICS has not installed the SESSIONS definition, *ssss*, because the CONNECTION name is not specified.

System action: CICS continues. A system dump is taken with dumpcode ZC5947. Message DFHME0116 should be produced containing the symptom string for this problem.

User response: You need further assistance from IBM to resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHBSMIR, DFHBSTZR

XMEOUT Parameters: *date, time,applid, ssss*

Destination: CSMT

DFHZC5948E *date time applid* **Install for sessions** *ssss* **failed. Connection** *cccc* **is not suitable for IRC**

Explanation: CICS has not installed the SESSIONS definition, *ssss*, because the CONNECTION specified is not suitable for IRC.

System action: CICS continues.

User response: Modify your definition of *cccc*.

Module: DFHBSTZR

XMEOUT Parameters: *date, time,applid, ssss, cccc*

Destination: CSMT

DFHZC5949E *date time applid* **Install for sessions** *ssss* **failed. It is incompatible with connection** *cccc*

Explanation: CICS has not installed the SESSIONS definition, *ssss*, because the CONNECTION specified does not support the required type of session. If you are replacing a connection of the same name but of a different type and the install fails for some other reason then this message may occur.

System action: CICS continues.

User response: Modify your definition of *cccc*.

Module: DFHBSMIR, DFHBSTZS, DFHBSTZR

XMEOUT Parameters: *date, time,applid, ssss, cccc*

Destination: CSMT

DFHZC5950E *date time applid* **Install for terminal** *termid* **failed. Console** *consname* **already exists**

Explanation: CICS has not installed the CONSOLE definition *termid* because the console ID, *consname*, already exists.

System action: CICS continues without installing the terminal.

User response: Use the CEDA transaction to define a different console ID in the CONSNAME of the terminal definition and reinstall the terminal.

Module: DFHBSTZO

XMEOUT Parameters: *date, time, applid, termid, consname*

Destination: CSMT

DFHZC5951E *date time applid* **Deletion of connection** *ssss* **failed. Unable to delete sessions**

Explanation: CICS has not deleted the CONNECTION definition, *ssss*, because it cannot delete one or more sessions. A preceding message or messages should explain this failure.

System action: CICS continues.

User response: Refer to the preceding message for further information and guidance.

Module: DFHBSSZR, DFHBSSZ6

XMEOUT Parameters: *date, time,applid, ssss*

Destination: CSMT

DFHZC5952E *date time applid* **Deletion of terminal** *termid* **failed. It needs to be SET RELEASED**

Explanation: CICS cannot delete terminal *termid* because of its current state.

System action: CICS continues.

User response: Use the CEMT transaction to set terminal *termid* released and out of service.

Module: DFHBSTZV

XMEOUT Parameters: *date, time,applid, termid*

Destination: CSMT

DFHZC5953E *date time applid* **CICS logic error**

Explanation: An object being installed did not have a bind-image.

System action: CICS continues. A system dump is taken with dumpcode ZC5953. Message DFHME0116 should be produced containing the symptom string for this problem.

User response: You need further assistance from IBM to resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHBSM62

XMEOUT Parameters: *date, time,applid*

Destination: CSMT

DFHZC5954E *date time applid* **Install for resource** *resource* **failed. Unable to install sessions component**

Explanation: CICS has failed to install resource *resource*. Previous message(s) should give the reason for the failure.

System action: CICS continues.

User response: Refer to any preceding messages for further information and guidance.

Module: DFHBSTZC

XMEOUT Parameters: *date, time,applid, resource*

Destination: CSMT

DFHZC5957E *date time applid* **Arch. User-Data ID X'***xx* **occurs in bind. CICS logic error**

Explanation: The APPC SESSIONS object being installed is invalid because architected user-data IDs greater than X'02 occur in bind.

System action: CICS does not install the object. A system dump is taken with dumpcode ZC5957. Message DFHME0116 should be produced containing the symptom string for this problem. You need further assistance from IBM to resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

User response:

Module: DFHBSM62

XMEOUT Parameters: *date, time,applid, xx*

Destination: CSMT

DFHZC5958E *date time applid* **Install failed for** *xxxx***. This is the name of the local system which must not be replaced.**

Explanation: A terminal or a connection was defined with the same name as the local system entry during the last run of CICS. This is not allowed as the local system entry cannot be replaced.

During cold or initial start of the current run of CICS, CICS attempted to install the group which included the invalid definition. CICS then issued this message.

System action: CICS continues, but this terminal or connection is not installed.

User response: Use the CEDA transaction to correct the terminal or connection name and install the group.

Module: DFHBSSZL

XMEOUT Parameters: *date, time,applid, xxxx*

Destination: CSMT

DFHZC5961E *date time applid* **Deletion of surrogate** *xxxx* **failed. CICS logic error**

Explanation: CICS cannot delete a surrogate TCT entry.

System action: CICS continues. A system dump is taken with dumpcode ZC5961. Message DFHME0116 should be produced containing the symptom string for this problem.

User response: You need further assistance from IBM to resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHBSTZ1, DFHBSTZ2

XMEOUT Parameters: *date, time,applid, xxxx*

Destination: CSMT

DFHZC5962E *date time applid* **Install for resource** *resource* **failed. Modename parameter not found**

Explanation: CICS has failed to install resource *resource* because the MODENAME parameter is missing.

System action: CICS continues.

User response: Supply the missing parameter.

Module: DFHBSTZS

XMEOUT Parameters: *date, time,applid, resource*

Destination: CSMT

DFHZC5963E *date time applid operation* **RUSIZE** *xxxx* **from terminal** *termid* **was greater than TYPETERM RUSIZE** *yyyy***.**

Explanation: An autoinstall has been attempted with terminal *termid* that has a z/OS Communications Server RECEIVESIZE greater than the corresponding TYPETERM RECEIVESIZE|SENDSIZE.

System action: CICS continues. The autoinstall is rejected.

User response: Increase the TYPETERM RECEIVESIZE or the TYPETERM SENDSIZE, OR decrease the RECEIVESIZEs in the z/OS Communications Server LOGMODE table.

Module: DFHBSZZV

XMEOUT Parameters: *date, time,applid, operation, xxxx, termid, yyyy*

Destination: CSMT

DFHZC5964E *date time applid* **Install for sessions** *ssss* **failed. CICS logic error.**

Explanation: CICS has failed to install SESSIONS *ssss* because the length of the BINDPASSWORD exceeds the limit of 8.

System action: CICS continues. A system dump is taken with dumpcode ZC5964. Message DFHME0116 should be produced containing the symptom string for this problem.

User response: You need further assistance from IBM to resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHBSSZS

XMEOUT Parameters: *date, time,applid, ssss*

Destination: CSMT

DFHZC5965 *date time applid* **Pool delete for pool** *poolid* **failed. Terminal** *termid* **was being replaced at the same time.**

Explanation: CICS failed in an attempt to install or delete POOL definition *poolid*. A terminal *termid* in the pool was being deleted at the same time as the pool was being installed or deleted. This probably due to changing the terminal from a pooled terminal to a non-pooled terminal, or changing the pool name for a terminal in the same group. CICS cannot continue to modify the pool until the change to the terminal has completed.

System action: CICS continues.

User response: Once the deletion or modification of the terminal has succeeded, retry the installation.

Module: DFHBSMPP

XMEOUT Parameters: *date, time,applid, poolid, termid*

Destination: CADL

DFHZC5966I *date time applid {INSTALL | DELETE | RESTORE}* **started for** *resource* **(***termid***) (Module name:** *modname***).**

Explanation: CICS is starting to install, delete or restore *resource*. The *resource* may be either a terminal, a connection, a modegroup, a session, or a pool_entry. Other messages are issued after this one if this installation, deletion or restoration fails.

System action: CICS continues.

User response: None.

Module: DFHBSTZ, DFHBSMPP, DFHBSM62, DFHBSS, DFHBSMIR

XMEOUT Parameters: *date, time,applid, {1=INSTALL, 2=DELETE,3=RESTORE}, resource, termid,modname*

Destination: CADL

DFHZC5967E *date time applid* **Install for modename** *modename* **failed. Unable to install sessions**

Explanation: CICS has failed to install a SESSIONS definition using MODENAME *modename*. Previous message(s) should give the reason for the failure.

System action: CICS continues.

User response: Refer to the preceding message for further information and guidance.

Module: DFHBSM61

XMEOUT Parameters: *date, time,applid, modename*

Destination: CSMT

DFHZC5968E *date time applid* **Unable to install LU Services Manager for modename** *modename*

Explanation: CICS has failed to install a CONNECTION definition for MODEGROUP *modename*. Previous message(s) should give the reason for the failure.

System action: CICS continues.

User response: Refer to any preceding messages for further information and guidance.

Module: DFHBSSZP

XMEOUT Parameters: *date, time,applid, modename*

Destination: CSMT

DFHZC5969E *date time applid* **Deletion of dependent modename(s) failed for connection** *modename*

Explanation: CICS has failed to replace a CONNECTION definition for MODEGROUP *modename*. Previous message(s) should give the reason for the failure.

System action: CICS continues.

User response: Refer to any preceding messages for further information and guidance.

Module: DFHBSSZS

XMEOUT Parameters: *date, time,applid, modename*

Destination: CSMT

DFHZC5971E *date time applid* **Delete of resource** *resource* **failed. CICS logic error**

Explanation: CICS failed to delete resource *resource* because of an unexpected signon state during the destroy operation.

System action: CICS continues. A system dump is taken with dumpcode ZC5971. Message DFHME0116 should be produced containing the symptom string for this problem.

User response: You need further assistance from IBM to resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHBSTS

XMEOUT Parameters: *date, time,applid, resource*

Destination: CSMT

DFHZC5972E *date time applid* **Delete of resource** *resource* **failed. It is still signed on**

Explanation: CICS failed to delete a TERMINAL or SESSIONS resource *resource* because a terminal or session is still signed on.

System action: CICS continues.

User response: Run the signoff transaction CESF and retry.

Module: DFHBSTS

XMEOUT Parameters: *date, time,applid, resource*

Destination: CSMT

DFHZC5973E *date time applid* **Install for sessions** *ssss* **failed. Max session-count reached for modename** *modename*

Explanation: CICS failed to delete a SESSIONS definition *ssss* because the maximum session-count was reached for MODENAME *modename*.

System action: CICS continues.

User response: Delete some sessions in *modename*, or redefine *modename* with a higher maximum session-count.

Module: DFHBSTZS

XMEOUT Parameters: *date, time,applid, ssss, modename*

Destination: CSMT

DFHZC5974E *date time applid* **Deletion of pool** *pppp* **failed. Unable to delete pool entries**

Explanation: CICS failed to delete a POOL *pppp*. Previous messages(s) should explain the cause of this failure.

System action: CICS continues.

User response: Refer to any previous messages for further guidance and information.

Module: DFHBSMPP

XMEOUT Parameters: *date, time,applid, pppp*

Destination: CSMT

DFHZC5975E *date time applid* **Install for resource** *pppp* **failed. CICS logic error**

Explanation: CICS failed to install the POOL definition *pppp* because the required POOLID parameter was missing. This is a CICS logic error (probably in DFHTRZPP).

System action: CICS continues. A system dump is taken with dumpcode ZC5975. Message DFHME0116 should be produced containing the symptom string for this problem.

User response: You need further assistance from IBM to resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHBSMPP, DFHBSTZP

XMEOUT Parameters: *date, time,applid, pppp*

Destination: CSMT

DFHZC5976E *date time applid* **CICS logic error**

Explanation: CICS failed to install a POOL definition because the required POOLCNT parameter was missing. This is a CICS logic error (probably in DFHTRZPP).

System action: CICS continues. A system dump is taken with dumpcode ZC5976. Message DFHME0116 should be produced containing the symptom string for this problem.

User response: You need further assistance from IBM to resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHBSMPP

XMEOUT Parameters: *date, time,applid*

Destination: CSMT

DFHZC5977E *date time applid* **Failure building pool entries**

Explanation: CICS failed to install a POOL definition, because of a failure in building pool entries. Previous messages should explain the cause of this failure.

System action: CICS continues.

User response: Refer to any previous messages for further information and guidance.

Module: DFHBSMPP

XMEOUT Parameters: *date, time,applid*

Destination: CSMT

DFHZC5978E *date time applid* **Unable to replace pool** *pppp*

Explanation: CICS failed in an attempt to install or delete a POOL definition. Previous messages should explain the cause of this failure.

System action: CICS continues.

User response: Refer to previous messages for further information and guidance.

Module: DFHBSMPP, DFHBSTZP

XMEOUT Parameters: *date, time,applid, pppp*

Destination: CSMT

DFHZC5979E *date time applid* **Deletion of pool** *pppp* **failed. It still has session** *termid*

Explanation: CICS has failed to delete pool *pppp* because the pool still has an active session for terminal *termid*.

System action: CICS continues.

User response: Put the terminal out of service (using the CEMT transaction) and retry.

Module: DFHBSTZP

XMEOUT Parameters: *date, time,applid, pppp, termid*

Destination: CSMT

DFHZC5980E *date time applid* **Resource** *resource* **is in use by task** *taskid* **Transaction** *tranid*

Explanation: The resource *resource* is in use. *taskid* is the task number, and *tranid* is the transaction ID.

System action: CICS continues.

User response: Wait for the termination of task *taskid*, and retry the operation.

Module: DFHBSS, DFHBSSZ, DFHBSTZ, DFHBSTZ1, DFHBSTZ2, DFHBSTZS, DFHBSTZZ, DFHBST2V

XMEOUT Parameters: *date, time,applid, resource, taskid, tranid*

Destination: CSMT

DFHZC5981E *date time applid* **Pool** *pppp* **not found**

Explanation: CICS has failed to install a resource because POOL *pppp* does not exist. Previous messages should explain the cause of this failure.

System action: CICS continues.

User response: Refer to the previous messages for further information and guidance.

Module: DFHBSTZP

XMEOUT Parameters: *date, time,applid, pppp*

Destination: CSMT

DFHZC5982E *date time applid* **Deletion of pool** *pppp* **failed. Pool entry is in use for** *termid*

Explanation: CICS has failed to delete POOL *pppp* because the pool still has an entry in use for terminal *termid*.

System action: CICS continues.

User response: Put the terminal out of service (using the CEMT transaction) and retry.

Module: DFHBSMPP

XMEOUT Parameters: *date, time,applid, pppp, termid*

Destination: CSMT

DFHZC5983E *date time applid* **Unable to replace** *resource*

Explanation: CICS failed to install resource *resource* either because it already exists, or for reasons explained in previous messages.

Possible causes are

- Non-z/OS Communications Server and z/OS Communications Server terminals defined with the same name. If a non-z/OS Communications Server terminal is installed, CICS will not autoinstall a z/OS Communications Server terminal with the same name.
- An attempt to replace your own terminal, or a terminal with the same name as the terminal being used to issue the CEDA command.
- An attempt to replace a terminal with the same REMOTENAME and REMOTESYSTEM as an earlier definition in the same group.

System action: CICS continues.

User response: Refer to previous messages for further information and guidance.

If no previous messages were issued, check your terminal identifiers.

Module: DFHBSS, DFHBSTZ, DFHBSTZ1, DFHBSTZ2

XMEOUT Parameters: *date, time,applid, resource*

Destination: CSMT

DFHZC5984E *date time applid* **The installation or deletion of** *restype1 resname1* **has failed. Task** *taskname taskid* **is updating related system definition** *sysname***. Module** *modname***.**

Explanation: The installation or deletion of the communications resource, *resname1* of resource type *restype1* has failed. This resource refers to a system entry, *sysname*, which is being updated by another task. The other task is identified by *taskname* and *taskid*. The resource type *restype1* can be terminal, remote terminal, connection, remote connection, or indirect connection. The message is issued by module *modname*.

System action: CICS continues but reverses the effects of the installation or deletion.

User response: Wait until the other task has completed then retry the action.

Module: DFHBSTZ, DFHBSTZ1, DFHBSTZ2, DFHBSSZI

XMEOUT Parameters: *date, time,applid, restype1, resname1, taskname, taskid, sysname, modname*

Destination: CSMT

DFHZC5985E *date time applid* **Install for resource** *resource* **failed. Unable to install connection component**

Explanation: CICS has failed to install resource *resource*. Previous message(s) should give the reason for the failure.

System action: CICS continues.

User response: Refer to previous messages for further information and guidance.

Module: DFHBSTZC

XMEOUT Parameters: *date, time,applid, resource*

Destination: CSMT

DFHZC5986E *date time applid* **CICS logic error**

Explanation: Either the warm keypoint program (DFHWKP), or the query transaction (DFHQRY), made an invalid request which could not be implemented.

System action: CICS continues. A system dump is taken with dumpcode ZC5986. Message DFHME0116 should be produced containing the symptom string for this problem.

User response: You need further assistance from IBM to resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHZCQCH

XMEOUT Parameters: *date, time,applid*

Destination: CSMT

DFHZC5987E *date time applid* **The install or delete of** *restype1 resname1* **has failed. Task** *taskname taskid* **is changing a definition which uses the** *restype2 resname2***. Module** *modname* **.**

Explanation: The installation or deletion of communications resource *resname1* of resource type *restype1* has failed. Table builder services cannot complete the change because another task is updating a definition which uses the resource *resname2* of resource type *restype2*. The other task is identified by *taskid* and *taskname*. *Restype2* can be a termid, netname, a unique network-qualified ID, or a pipeline terminal pool_name *Restype1* can be a terminal, a session, a remote terminal, a connection, a remote connection, or a pipeline terminal. The message was issued by module *modname*.

System action: CICS continues but reverses this install or delete.

User response: Wait until the other task has completed and then retry the action.

Module: DFHBSS, DFHBSTZ, DFHBSTZS, DFHBSTZV, DFHBSTZZ, DFHBSTZ1, DFHBSTZ2, DFHBSMPP, DFHBSTZP

XMEOUT Parameters: *date, time,applid, restype1, resname1, taskname, taskid, restype2, resname2, modname*

Destination: CSMT

DFHZC5988 E *date time applid* **Install for resource** *resource* **failed. VTAM support not generated**

Explanation: CICS failed to install resource *resource* because CICS was initialized without z/OS Communications Server support.

System action: CICS continues.

User response: If you want to install z/OS Communications Server resources urgently, shut down CICS, and restart it with the system initialization parameter VTAM=YES, and appropriate RDO terminal definitions.

Module: DFHBSSZS, DFHBSSZ6, DFHBSTZV

XMEOUT Parameters: *date, time,applid, resource*

Destination: CSMT

DFHZC5989E *date time applid* **Deletion of resource** *resource* **failed. Remote deletion in connection** *cccc* **failed**

Explanation: CICS failed to delete resource *resource* because a remote delete in system *cccc* failed.

Previous messages should explain the cause of this failure.

System action: CICS continues.

User response: Refer to the previous message for further information and guidance.

Module: DFHBSTZ1, DFHBSTZ2

XMEOUT Parameters: *date, time,applid, resource, cccc*

Destination: CSMT

DFHZC5990E *date time applid* **CICS logic error**

Explanation: CICS rejected an INSTALL or DELETE request because it does not recognize the request code.

System action: CICS continues. A system dump is taken with dumpcode ZC5990. Message DFHME0116 should be produced containing the symptom string for this problem.

User response: You need further assistance from IBM to resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHZCQ00

XMEOUT Parameters: *date, time,applid*

Destination: CSMT

DFHZC5991E *date time applid* **CICS logic error**

Explanation: CICS rejected a VALIDATE BIND request because no BIND was supplied.

System action: CICS continues. A system dump is taken with dumpcode ZC5991. Message DFHME0116 should be produced containing the symptom string for this problem.

User response: You need further assistance from IBM to resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHZCQ00

XMEOUT Parameters: *date, time,applid*

Destination: CSMT

DFHZC5992E *date time applid* **Resource Types Table does not support recovery record**

Explanation: CICS rejected RESTORE request because the resource types table (DFHZCQRT) in DFHZCQ is incompatible with the recovery record from the log or CICS catalog.

System action: CICS continues. A system dump is taken with dumpcode ZC5992. Message DFHME0116 should be produced containing the symptom string for this problem.

User response: CICS is unable to warm start correctly. You should therefore shut CICS down and perform a cold or initial start.

Module: DFHZCQRS

XMEOUT Parameters: *date, time,applid*

Destination: CSMT

DFHZC5993E *date time applid* **CICS logic error**

Explanation: CICS rejected a RESTORE request because the resource types table (DFHZCQRT) in DFHZCQ is incompatible with the recovery record from the log or CICS catalog.

System action: CICS continues. A system dump is taken with dumpcode ZC5993. Message DFHME0116 should be produced containing the symptom string for this problem.

User response: You need further assistance from IBM to resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHZCQRS

XMEOUT Parameters: *date, time,applid*

Destination: CSMT

DFHZC5994E *date time applid* **CICS logic error**

Explanation: CICS rejected a RESTORE request because no recovery record was passed.

System action: CICS continues. A system dump is taken with dumpcode ZC5994. Message DFHME0116 should be produced containing the symptom string for this problem.

User response: You need further assistance from IBM to resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHZCQRS

XMEOUT Parameters: *date, time,applid*

Destination: CSMT

DFHZC5995E *date time applid* **CICS logic error. Resource Type Code** *xxxx* **Subtype** *yyyy* **not recognized with associated bind image**

Explanation: CICS failed to install a resource with resource type code (RTC) *xxxx* and subtype *yyyy* (from the Builder Parameter Set) because a resource with type code *xxxx*, sub-type *yyyy*, and the associated BIND-image, is not a builder resource type. The RTC and subtype are defined in module DFHZCQRT.

This is a CICS logic error (probably in DFHTRZ*x*P).

System action: CICS continues. A system dump is taken with dumpcode ZC5995. Message DFHME0116 should be produced containing the symptom string for this problem.

User response: You need further assistance from IBM to resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHZCQIS

XMEOUT Parameters: *date, time,applid, xxxx, yyyy*

Destination: CSMT

DFHZC5996E *date time applid* **CICS logic error**

Explanation: CICS has rejected an INSTALL request because the resource type code in the request is zero.

System action: CICS continues. A system dump is taken with dumpcode ZC5996. Message DFHME0116 should be produced containing the symptom string for this problem.

User response: You need further assistance from IBM to resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHZCQIS

XMEOUT Parameters: *date, time,applid*

Destination: CSMT

DFHZC5997E *date time applid* **CICS logic error**

Explanation: CICS has rejected an INQUIRE request because no TCT entry was passed.

System action: CICS continues. A system dump is taken with dumpcode ZC5997. Message DFHME0116 should be produced containing the symptom string for this problem.

User response: You need further assistance from IBM to resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHZCQIQ

XMEOUT Parameters: *date, time,applid*

Destination: CSMT

DFHZC5998E *date time applid* **Install specified a resource that cannot be replaced**

Explanation: CICS rejected a DELETE request because the entry passed is of a type that cannot be deleted, for example, a non-z/OS Communications Server terminal.

System action: CICS continues.

User response: The failing delete/replace was necessitated by an INSTALL request. Correct the resource type in that request.

Module: DFHZCQCH, DFHZCQDL

XMEOUT Parameters: *date, time,applid*

Destination: CSMT

DFHZC5999E *date time applid* **CICS logic error.**

Explanation: If DFHZCQCH issues this message, CICS has rejected a CATALOG request because the required entry parameter was not passed.

If DFHZCQDL issues this message, CICS has rejected a DELETE request because the required entry parameter was not passed.

System action: CICS continues. A system dump is taken with dumpcode ZC5999. Message DFHME0116 should be produced containing the symptom string for this problem.

User response: You need further assistance from IBM to resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHZCQCH, DFHZCQDL

XMEOUT Parameters: *date, time,applid*

Destination: CSMT

DFHZC6201E *applid* **CICS table builder services has detected a severe error in module** *modname* **code** *X'code'*.

Explanation: While executing a request, CICS table builder services detected a severe error. The error is identified by the error code *code* and the module *modname*.

System action: CICS rejects the request and takes a dump. CICS writes an exception trace record identified by *code*, then issues message DFHZC6208 either to the user of the CEDA transaction, or if the request did not originate from CEDA, to the CSMT transient data queue

User response: This failure indicates either an error in CICS, or a storage overlay. You need further assistance from IBM to resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHTBSB, DFHTBSD, DFHTBSBP,

DFHTBSDP, DFHTBSL, DFHTBSLP, DFHTBSS

XMEOUT Parameters: *applid, modname,X'code'*

Destination: Console

DFHZC6202E *date time applid* **Pattern** *pattern* **not valid for builder**

Explanation: While executing a request, CICS table builder services has detected that the pattern *pattern* cites a builder that is not declared with DFHBSHDR(ENTRY). *pattern* is the name of the pattern as coded in the DFHBSPTE macro.

System action: CICS rejects the request. A system dump is taken with dumpcode ZC6202. Message DFHME0116 should be produced containing the symptom string for this problem.

User response: You need further assistance from IBM to resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHTBSB, DFHTBSL, DFHTBSQ, DFHTBSR

XMEOUT Parameters: *date, time,applid, pattern*

Destination: CSMT

DFHZC6204E *date time applid* **Illegal subpattern definition** *pattern*

Explanation: While executing a request, CICS table builder services has detected that the subpattern *pattern* cites a builder that is not declared with DFHBSHDR(ENTRY). *pattern* is the name of the subpattern as coded in the DFHBSPTE macro.

System action: CICS rejects the request. A system dump is taken with dumpcode ZC6204. Message DFHME0116 should be produced containing the symptom string for this problem.

User response: You need further assistance from IBM to resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHTBSBP, DFHTBSDP

XMEOUT Parameters: *date, time,applid, pattern*

Destination: CSMT

DFHZC6205E *date time applid* **Illegal subpattern definition** *pattern*

Explanation: While executing a request, CICS table builder services has detected that the subpattern *pattern* is invalidly defined. *pattern* is the name of the subpattern as coded in the DFHBSPTE macro.

System action: CICS rejects the request. A system dump is taken with dumpcode ZC6205. Message DFHME0116 should be produced containing the symptom string for this problem.

User response: You need further assistance from IBM to resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHTBSBP, DFHTBSDP

XMEOUT Parameters: *date, time,applid, pattern*

Destination: CSMT

DFHZC6206E *date time applid* **Pattern** *pattern* **not valid for destroy**

Explanation: While executing a DESTROY request, CICS table builder services has detected that the pattern *pattern* is not valid for a DESTROY request. *pattern* is the name of the pattern as coded in the DFHBSPTE macro.

System action: CICS rejects the request. A system dump is taken with dumpcode ZC6206. Message DFHME0116 should be produced containing the symptom string for this problem.

User response: You need further assistance from IBM to resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHTBSD

XMEOUT Parameters: *date, time,applid, pattern*

Destination: CSMT

DFHZC6207E *date time applid* **Catalog key too long or zero. Pattern** *pattern*

Explanation: While executing a request, CICS table builder services has detected that builder cited in the pattern *pattern* has returned an invalid CC key on MAKEKEY. *pattern* is the name of the pattern as coded in the DFHBSPTE macro.

System action: CICS rejects the request. A system dump is taken with dumpcode ZC6207. Message DFHME0116 should be produced containing the symptom string for this problem.

User response: You need further assistance from IBM to resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHTBSBP, DFHTBSDP, DFHTBSL

XMEOUT Parameters: *date, time,applid, pattern*

Destination: CSMT

DFHZC6208E *date time applid* **CICS table builder services has detected a severe error in module** *modname***, code(***X'code'***.**

Explanation: While executing a request, CICS table builder services detected a severe error. The error is identified by the error code *code* and the module *modname*.

System action: CICS rejects the request. It has already issued message DFHZC6201, written an exception trace record identified by *code*, and taken a dump.

User response: This failure indicates either an error in CICS, or a storage overlay. You need further assistance from IBM to resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHTBSB, DFHTBSD, DFHTBSBP, DFHTBSDP, DFHTBSL, DFHTBSLP, DFHTBSS

XMEOUT Parameters: *date, time,applid, modname, X'code'*

Destination: CSMT

DFHZC6209E *date time applid* **Invalid ZC catalog request code** *xxxx*

Explanation: While executing a request, CICS table builder services has detected that the code, *xxxx*, for a catalog request is invalid.

System action: CICS rejects the request. A system dump is taken with dumpcode ZC6209. Message DFHME0116 should be produced containing the symptom string for this problem.

User response: You need further assistance from IBM to resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHTBSL

XMEOUT Parameters: *date, time,applid, xxxx*

Destination: CSMT

DFHZC6210E *date time applid* **Table builder could not obtain storage for control block code** *X'code'***, module** *modname***.**

Explanation: While executing a BUILD, a DESTROY or a RESTORE request, CICS table builder services could not obtain storage for a control block. The control block could be a RRAB, a RABN, an action_block, a recovery record, or a recovery segment. The error code *code* identifies the element that could not be obtained by the module *modname*.

System action: CICS rejects the request. It has already written an exception trace record identified by *code*.

User response: This failure may be a symptom of a expanded dynamic storage area (EDSA) that is too small. If so, you can solve the problem by increasing the size of your CICS region. For guidance on estimating the size of the DSA and the CICS region, see the *CICS System Definition Guide* and the *CICS Performance Guide*. You can identify which control block that could not be obtained by formatting the exception trace record.

The failure may also be caused by an error in another transaction, for example, a looping program with an EXEC CICS GETMAIN within the loop.

Module: DFHTBSB, DFHTBSD, DFHTBSL, DFHTBSBP, DFHTBSDP, DFHTBSLP, DFHTBSS

XMEOUT Parameters: *date, time,applid, X'code', modname*

Destination: CSMT

DFHZC6212E *date time applid* **Level mismatch with catalog record. DFHBS** *xxx*

Explanation: While executing a request during a warm or emergency start, CICS Table Builder Services has detected that the CC record is not compatible with the pattern it names. *xxx* is the builder ID.

System action: CICS rejects the request.

User response: The CC record was probably written by an earlier level of CICS. That is, you have applied one or more PTF maintenance fixes to the system since the CC record was written. Assuming this is the case, you must either

- Cold or initial start CICS, **or**
- Remove the maintenance to enable a warm start or emergency restart.

Module: DFHTBSR, DFHTBSRP

XMEOUT Parameters: *date, time,applid, xxx*

Destination: CSMT

DFHZC6213E *date time applid* **Recovery record abandoned. Key is** *key*

Explanation: While processing a RESTORE request, CICS Table Builder Services detected an error reported in a previous message. *key* is the catalog key for the abandoned record, or, if the key is unknown to CICS, *key* is the single character **?**.

System action: See the previously issued message for the cause of the problem, and follow the recommended user action.

Module: DFHTBSR

XMEOUT Parameters: *date, time,applid, key*

Destination: CSMT

DFHZC6214E *date time applid* **Unable to obtain recovery record storage**

Explanation: While processing a CATALOG request, CICS Table Builder Services could not obtain recovery record storage.

System action: CICS rejects the request.

User response: This failure may be a symptom of a dynamic storage area (DSA) that is too small. If so, you can solve the problem by increasing the size of your

CICS region. For advice on estimating the size of the DSA and the CICS region, see the *CICS System Definition Guide* and the *CICS Performance Guide*.

The failure may also be caused by an error in another transaction, for example, a looping program with an EXEC CICS GETMAIN within the loop.

Module: DFHTBSLP

XMEOUT Parameters: *date, time,applid*

Destination: CSMT

DFHZC6216E *date time applid* **Install for** *restype1* **(***resname1***) failed and caused the backout of the whole set of RDO resources for** *restype2* **(***resname2***).**

Explanation: The RDO definition for a resource of type *restype1* named *resname1* could not be installed because of an error. This causes the installable set of RDO definitions associated with *restype2* named *resname2* to be backed out.

The resource type of the definition that failed *restype1* can be connection, session, modegroup, pool, or pooled terminal. The resource type of the associated definition *restype2* can be connection, or a pool_name for pipeline terminals.

System action: CICS backs out the installation of the set of associated RDO definitions and continues without them.

User response: Correct the reason for the failure of the definition, identified by previous DFHZX*nnnn* messages, and then retry the install.

Module: DFHTBSB

XMEOUT Parameters: *date, time,applid, restype1, resname1, restype2, resname2*

Destination: CSMT

DFHZC6301E *date time applid* **Install for** *tttt* **failed. Duplicate netname** *netname* **for resource** *rrrr* **found.**

Explanation: A resource *tttt* was being installed but was found to have the same network name *netname* as resource *rrrr*.

System action: The resource is not installed, CICS continues.

User response: If you want the definitions to be installed, use CEDA to correct the network name and reinstall the definition.

Module: DFHBSTZV

XMEOUT Parameters: *date, time,applid, tttt, netname, rrrr*

Destination: CSMT

DFHZC6302E *date time applid* **Install for connection** *cccc* **failed. Duplicate netname** *netname* **for resource** *rrrr* **found.**

Explanation: A connection *cccc* was being installed but was found to have the same network name *netname* as resource *rrrr*.

System action: The resource is not installed, CICS continues.

User response: You cannot have an APPC connection with the same network name as another APPC connection or an LU6.1 connection. That is, you cannot have more than one APPC connection between two systems and an APPC connection cannot be installed with an LU6.1 connection between two systems.

Neither APPC or LU6.1 network names can be the same as a terminal's network name.

Also you cannot have an IRC (or XM) connection with the same network name as another IRC (or XM) connection. However, an IRC network name can be the same as any z/OS Communications Server network name (APPC or LU61 connection or terminal).

If you want the definitions to be installed, use CEDA to correct the network name and then reinstall the definition.

If you need to replace a connection with a different network name, it must have the same connection name as the one you are replacing.

Module: DFHBSS

XMEOUT Parameters: *date, time,applid, cccc, netname, rrrr*

Destination: CSMT

DFHZC6303E *date time applid* **Install for** *tttt* **failed. Duplicate netname** *netname* **found.**

Explanation: A resource *tttt* was being installed but was found to have a duplicate network name *netname*.

This message occurs
- If the duplicate NETNAME occurred in the same group as this definition, or
- If two CEDA transactions were run at the same time and the other CEDA transaction added a NETNAME between the BUILD and CONNECT routines of DFHBSTZV.

System action: The resource is not installed; CICS continues.

User response: If you want the definitions to be installed, use CEDA to correct the network name and then reinstall the definition.

Module: DFHBSTZV

XMEOUT Parameters: *date, time,applid, tttt, netname*

Destination: CSMT

DFHZC6304W *date time applid* **Deletion of remote terminal** *termid* **failed because it is in use by another transaction.**

Explanation: CICS has issued a logoff transaction to the remote terminal *termid* but this terminal cannot be deleted because it is in use by another transaction.

System action: The remote terminal can be reused. CICS continues.

User response: This situation usually occurs because the remote CICS is under stress. Consider allocating more resources. For example, you might need to allocate more storage.

Module: DFHBSTZ

XMEOUT Parameters: *date, time,applid, termid*

Destination: CSMT

DFHZC6305E *date time applid* **Install for EXCI generic connection** *cccc* **failed. Duplicate EXCI generic connection** *rrrr* **found.**

Explanation: A connection *cccc* specifying protocol(exci) and conntype(generic) was being installed but an existing EXCI generic connection *rrrr* was found.

System action: The resource is not installed. CICS continues.

User response: There can be only one EXCI generic connection installed in a CICS system. Determine which EXCI generic connection definition is required and remove the duplicate definition.

If you need to replace the EXCI generic connection definition, it must have the same connection name as the one you are replacing.

Module: DFHBSS

XMEOUT Parameters: *date, time,applid, cccc, rrrr*

Destination: CSMT

DFHZC6307E *date time applid* **Install for connection** *cccc* **failed. Netname** *netname* **is the same as the generic resource name.**

Explanation: A connection *cccc* was being installed but the netname *netname* is the same as the generic resource name for this CICS (as defined in the SIT GRNAME parameter).

Communication within a SYSPLEX (intra-plex) must be done using member names.

System action: The resource is not installed, CICS continues.

User response: If this connection is for communication within a sysplex, use CEDA to change the NETNAME to the member name of the connection with which you wish to communicate.

If this is for communication between two sysplexes, change the NETNAME to the generic resource name of the partner sysplex.

Module: DFHBSS

XMEOUT Parameters: *date, time,applid, cccc, netname*

Destination: CSMT

DFHZC6308E *date time applid* **Restore for connection** *cccc* **failed. Netname** *netname* **is the same as the generic resource name.**

Explanation: During an emergency or warm restart CICS tried to restore connection *cccc*. However its netname *netname* is the same as the generic resource name for this CICS (as defined in the GRNAME system initialization parameter).

This is probably because the GRNAME specified in the SIT has been changed. It should only be changed at INITIAL start time.

System action: Processing continues. The resource is not installed.

User response: If this connection is for communication within a sysplex, use CEDA to change the NETNAME to the member name of the connection with which you wish to communicate.

If this is for communication between two sysplexes, change the NETNAME to the generic resource name of the partner sysplex.

If you need to change the GRNAME parameter, remember to do so only during an INITIAL start.

Module: DFHBSS

XMEOUT Parameters: *date, time,applid, cccc, netname*

Destination: CSMT

DFHZC6312E *date time applid* **Install for connection** *cccc* **failed. An IPCONN with this name already exists and its applid is not** *netname***.**

Explanation: A CONNECTION *cccc* install failed because there is already an IPCONN of this name installed in the system and its APPLID is not the same as the NETNAME *netname* of this CONNECTION. This is not permitted.

System action: The resource is not installed. CICS continues.

User response: An IPCONN and a CONNECTION of the same name must represent a link to the same system, so either the IPCONN APPLID or the CONNECTION NETNAME is incorrect. Establish

which of these is the case and re-install with the correct value.

Module: DFHBSS

XMEOUT Parameters: *date, time,applid, cccc, netname*

Destination: CSMT

DFHZC6315E *date time applid* **User** *userid* **is not authorized to install terminal** *tttt* **with preset security.**

Explanation: User *userid* was attempting to install terminal *tttt* but the userid does not have sufficient authority. This is because the terminal has preset authority (the definition for terminal *tttt* specifies a *userid* value.) Installing a resource with preset security requires special authorization.

System action: Resource security violation messages are logged to the CSCS transient data queue and to the system console. The resource is not installed. CICS continues.

User response: In order to install this resource, do one of the following
- Use the CESN transaction to sign on with a userid that is permitted to install terminals with preset security.
- Ask your security administrator to authorize userid *userid* to install terminals with preset security. See the *CICS System Definition Guide* for guidance.
- Remove the USERID specification from the resource definition and install the resource without preset security.

Module: DFHBSTS

XMEOUT Parameters: *date, time,applid, userid, tttt*

Destination: CSMT

DFHZC6330E *date time applid* **Install for** *tttt* **failed. LDCLIST parameter** *ldclist* **not found.**

Explanation: A resource *tttt* was being installed but was found to have an invalid LDCLIST *ldclist*.

System action: The resource is not installed, CICS continues.

User response: If you want the definition to be installed, use the DFHTCT TYPE=LDCLIST macro to define the listname.

Module: DFHBSTBL

XMEOUT Parameters: *date, time,applid, tttt, ldclist*

Destination: CSMT

DFHZC6331E *date time applid* **Install for connection** *tttt* **failed. Non-z/OS Communications Server terminal with same name already exists.**

Explanation: A connection *tttt* was being installed but a non-z/OS Communications Server terminal with the same name already exists.

System action: The resource is not installed; CICS continues.

User response: Change the name of the connection and reinstall.

Module: DFHBSS

XMEOUT Parameters: *date, time,applid, tttt*

Destination: CSMT

DFHZC6332E *date time applid* **Install for terminal** *tttt* **failed. Non-VTAM terminal with same name already exists.**

Explanation: A terminal *tttt* was being installed but a non-z/OS Communications Server terminal with the same name already exists.

System action: The resource is not installed; CICS continues.

User response: Change the name of the terminal and reinstall.

Module: DFHBSTZ

XMEOUT Parameters: *date, time,applid, tttt*

Destination: CSMT

DFHZC6333E *date time applid* **INSTALL for modename** *modename* **failed. Zero sessions specified**

Explanation: CICS has not installed a mode group *modename* because the maximum number of sessions specified was 0. The CEDA SESSION MAXIMUM parameter cannot be set to 0, so this was possibly caused by a storage overwrite, or by an invalid builder parameter set being shipped into CICS.

System action: The install fails, but CICS continues.

User response: Find the offending builder parameter set and set ZC_MAXSESS_1 to a minimum value of 1.

Module: DFHBSM61

XMEOUT Parameters: *date, time,applid, modename*

Destination: CSMT

DFHZC6334E *date time applid* **Install for connection** *tttt* **failed. A session with the same name already exists.**

Explanation: A connection *tttt* was being installed but a session with the same name already exists.

System action: The resource is not installed; CICS continues.

User response: Change the name of the connection and reinstall.

Module: DFHBSS

XMEOUT Parameters: *date, time,applid, tttt*

Destination: CSMT

DFHZC6340E *date time applid* **CICS has detected an error in delete processing for** *termid***. Module name:** *modname***.**

Explanation: CICS has found terminal input output areas (TIOAs) chained to a TCTTE during deletion of a terminal. This is a CICS logic error.

System action: A system dump is taken, the TCTTE is deleted and CICS continues. Message DFHME0116 should be produced containing the symptom string for this problem.

User response: You need further assistance from IBM to resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

It would aid IBM support if you used the system dump to determine why TIOAs are still chained to the TCTTEs. The TIOAs are normally freemained before deletion.

Answers to the following questions would also be helpful
- Is this is a shipped TCTTE?
- Why is the TCTTE being deleted?
- Is the correct TCTTE being deleted?

Module: DFHBST

XMEOUT Parameters: *date, time,applid, termid, modname*

Destination: CADL

DFHZC6341E *date time applid* **Loop or ABEND has been detected in** *inmodule* **by module** *bymodule***.**

Explanation: CICS has previously detected a loop or abend. Module *bymodule* called module *inmodule* which looped or abended.

System action: CICS issues message DFHZC0001 if an abend is detected or DFHZC0004 if a loop is detected. The install or delete being performed is backed out. CICS continues. Message DFHME0116 should be produced containing the symptom string for this problem.

User response: See the associated message for more guidance.

Module: DFHBSM61 DFHBSTZS, DFHBSTZR

XMEOUT Parameters: *date, time,applid, inmodule, bymodule*

Destination: CADL

DFHZC6350I *date time applid* **The** *type* **session name BITMAP was corrupt and has been rebuilt. Error code: AP FB05.**

Explanation: A connection was being installed but the APPC or MRO session name BITMAP which is used to create a session name, was corrupt. The corrupt BITMAP has been rebuilt.

The APPC session name BITMAP is always used for an APPC session, however the MRO session name BITMAP is only used if the session name is prefixed with '<' or '>'.

System action: A dump is taken with dumpcode ZC6350. Trace point ID AP X'FB05 is produced. The install continues. CICS continues.

User response: Use the dump provided to determine the cause of the storage overwrite. See the *CICS Problem Determination Guide* for guidance on dealing with storage problems.

Module: DFHZGBM

XMEOUT Parameters: *date, time,applid, type*

Destination: CSMT

DFHZC6360W *date time applid* **A GETMAIN failed to obtain storage for a message set.**

Explanation: A ZCP install has failed. This would normally result in a message being issued. However, the GETMAIN attempting to obtain storage from the CDSA for use as a message area has failed. This means that there is no more free storage available in the CDSA.

System action: The message which should have reported the ZCP install failure cannot be issued. Subsequent messages also cannot be issued while there is no free storage available in the CDSA. However, subsequent messages can be issued if storage becomes available on subsequent GETMAIN attempts.

Message DFHME0116 should be produced containing the symptom string for this problem.

User response: Use trace to determine the source of the problem. Trace point AP FCDD, the TBSM entry, gives the message number which should have been issued and the message insert data. Refer to the description of this message for further guidance.

Module: DFHBSTS, DFHBSTZO, DFHZATA2

XMEOUT Parameters: *date, time,applid*

Destination: CSMT

DFHZC6361E *date time applid {Install | Signon}* **for** *{netname | console |terminal }portname* **with userid** *userid* **failed because the preset userid is invalid.**

Explanation: The resource could not be installed or signed on with preset userid *userid* because the userid is not known to the external security manager (ESM).

System action: CICS continues.

User response: Correct the userid, or contact your security administrator to have the unknown userid added to your ESM. Then either reinstall the resource definition, or attempt to send a command to CICS via this console.

Module: DFHBSTS, DFHBSTZO

XMEOUT Parameters: *date, time,applid, {1=Install, 2=Signon}, {1=netname , 2=console , 3=terminal }, portname, userid*

Destination: CSMT

DFHZC6362E *date time applid {Install | Signon}* **for** *{netname | console |terminal }portname* **with userid** *userid* **failed because the preset userid has been revoked.**

Explanation: The resource could not be installed or signed on with preset userid *userid* because the userid has been revoked by the external security manager (ESM).

System action: CICS continues.

User response: Contact your security administrator, who can reauthorize the revoked userid by issuing the ALTUSER RESUME function. Then reinstall the resource definition or try another command from the affected console.

Module: DFHBSTS, DFHBSTZO

XMEOUT Parameters: *date, time,applid, {1=Install, 2=Signon}, {1=netname , 2=console , 3=terminal }, portname, userid*

Destination: CSMT

DFHZC6363E *date time applid {Install | Signon}* **for** *{netname | console |terminal }portname* **with userid** *userid* **failed because the preset userid's group access has been revoked.**

Explanation: The resource could not be installed or signed on with preset userid *userid* because the access of that userid to the group containing it has been revoked by the external security manager (ESM).

System action: CICS continues.

User response: Contact your security administrator who can restore the access of the preset userid to its group by issuing the CONNECT RESUME function. Then reinstall the resource definition or try another command from the console.

Module: DFHBSTS, DFHBSTZO

XMEOUT Parameters: *date, time,applid, {1=Install, 2=Signon}, {1=netname , 2=console , 3=terminal }, portname, userid*

Destination: CSMT

DFHZC6364E *date time applid {Install | Signon}* **for** *{netname | console |terminal }portname* **with userid** *userid* **failed because the external security manager returned an unrecognized response.**

Explanation: The resource could not be installed or signed on with preset userid *userid* because of unexpected return codes from the external security manager (ESM).

System action: CICS continues. Either message DFHSN1401 or DFHSN1801 is issued.

User response: See the accompanying message for further guidance. Reinstall the resource definition or try another command from the console when you have corrected the problem.

Module: DFHBSTS, DFHBSTZO

XMEOUT Parameters: *date, time,applid, {1=Install, 2=Signon}, {1=netname , 2=console , 3=terminal }, portname, userid*

Destination: CSMT

DFHZC6365E *date time applid {Install | Signon}* **for** *{netname | console |terminal }portname* **with userid** *userid* **failed because the external security manager is inactive.**

Explanation: The resource could not be installed or signed on with preset userid *userid* because the external security manager (ESM) is no longer active.

System action: CICS continues.

User response: Contact your security administrator to restart the ESM. Reinstall the resource definition or try the command from a console again when the ESM is active again.

Module: DFHBSTS, DFHBSTZO

XMEOUT Parameters: *date, time,applid, {1=Install, 2=Signon}, {1=netname , 2=console , 3=terminal }, portname, userid*

Destination: CSMT

DFHZC6366E *date time applid {Install | Signon}* **for** *{netname | console |terminal }portname* **with userid** *userid* **failed because the userid is not authorized to access this CICS system.**

Explanation: The resource could not be installed or signed on with a preset userid because the preset userid is not authorized to use application *applid*.

System action: CICS continues.

User response: Contact your security administrator who can authorize the preset userid to access the application *applid* by issuing the PERMIT function for the APPL resource class. Then reinstall the resource definition or try the command again from the console.

Module: DFHBSTS, DFHBSTZO

XMEOUT Parameters: *date, time,applid, {1=Install, 2=Signon}, {1=netname , 2=console , 3=terminal }, portname, userid*

Destination: CSMT

DFHZC6367E *date time applid {Install | Signon}* **for** *{netname | console |terminal }termid* **with userid** *userid* **failed because the SECLABEL check failed.**

Explanation: The resource could not be installed or signed on with preset userid *userid* because the security label associated with the userid in the external security manager (ESM) does not have the necessary authority.

System action: CICS continues.

User response: Contact your security administrator to assign a new security label to the preset userid. Then reinstall the resource definition or try the command from the console again.

Module: DFHBSTS, DFHBSTZO

XMEOUT Parameters: *date, time,applid, {1=Install, 2=Signon}, {1=netname , 2=console , 3=terminal }, termid, userid*

Destination: CSMT

DFHZC6368E *date time applid {Install | Signon}* **for** *{netname | console | terminal }portname* **with userid** *userid* **failed because the external security manager is quiesced.**

Explanation: The resource could not be installed or signed on with preset userid *userid* because the external security manager (ESM) has been placed in a "tranquil" state and is not allowing new users to be added to the system.

System action: CICS continues.

User response: Contact your security administrator to establish when the ESM will be fully available again. When it is, reinstall the resource definition or try the command from the console again.

Module: DFHBSTS, DFHBSTZO

XMEOUT Parameters: *date, time,applid, {1=Install, 2=Signon}, {1=netname , 2=console , 3= terminal }, portname, userid*

Destination: CSMT

DFHZC6369E *date time applid {Install | Signon}* **for** *{netname | console |terminal }portname* **failed because national language** *langcode* **is invalid.**

Explanation: The resource could not be installed or signed on because the national language *langcode* specified in the resource definition is not recognized.

System action: CICS continues.

User response: Change the national language on the resource definition to a valid value and reinstall the resource definition.

Module: DFHBSTS, DFHBSTZO, DFHZSGN

XMEOUT Parameters: *date, time,applid, {1=Install, 2=Signon}, {1=netname , 2=console , 3=terminal }, portname, langcode*

Destination: CSMT

DFHZC6370E *date time applid {Install | Signon}* **for** *{netname | console |terminal }portname* **failed because national language** *langcode* **is unavailable.**

Explanation: The resource could not be installed or signed on because the national language *langcode* specified in the resource definition is not supported in this run of CICS.

System action: CICS continues.

User response: Change the national language in the resource definition to one that has been initialized. Then reinstall the resource definition.

Module: DFHBSTS, DFHBSTZO, DFHZSGN

XMEOUT Parameters: *date, time,applid, {1=Install, 2=Signon}, {1=netname , 2=console , 3=terminal }, portname, langcode*

Destination: CSMT

DFHZC6371E *date time applid {Install | Signon}* **for** *{netname | console |terminal }portname* **with userid** *userid* **failed because the userid is not authorized to use this p ortname.**

Explanation: The resource could not be installed or signed on with preset userid *userid* because the specified userid is not authorized to use that resource.

System action: CICS continues. Either message DFHSN1401 or DFHSN1801 is issued.

User response: See the accompanying message for further guidance. Reinstall the resource definition or retry the command from the console when you have corrected the problem.

Module: DFHBSTS, DFHBSTZO

XMEOUT Parameters: *date, time,applid, {1=Install, 2=Signon}, {1=netname , 2=console , 3=terminal }, portname, userid*

Destination: CSMT

DFHZC6380E *date time applid* **Install for connection** *cccc* **failed. Netname** *netname* **is the same as the member name of a generic resource connection** *grcon* **which is already in use.**

Explanation: A connection *cccc* was being installed but the netname *netname* is the same as the member name of a generic resource connection *grcon* which is already in use.

System action: The resource is not installed. CICS continues.

User response: If the NETNAME is incorrect, use CEDA to change it. Alternatively if you wish to communicate with the generic resource member by its member name, discard the generic resource connection after ending the z/OS Communications Server affinity and try again.

Module: DFHBSS

XMEOUT Parameters: *date, time,applid, cccc, netname, grcon*

Destination: CSMT

DFHZC6590I *date time applid termid tranid* **Node** *netname* **conversation restarted.** *sense* **((***instance***) Module name: {DFHZXRC})**

Explanation: The node specified has been switched to this system following an XRF takeover.

For the meaning of *sense*, see message DFHZC2400.

System action: Processing continues.

User response: None.

Module: DFHZXRC

XMEOUT Parameters: *date, time,applid, termid, tranid, netname, sense, instance, {1=DFHZXRC, 2=DFHZXRC, 3=DFHZXRC, 4=DFHZXRC, 5=DFHZXRC}*

Destination: CSNE

DFHZC6591E *date time applid termid tranid* **Error processing XRF switch command.** *sense* **((***instance***) Module name {DFHZXRC})**

Explanation: The terminal has been switched to this CICS system following an XRF takeover, but an error was encountered processing the response data.

For the meaning of *sense*, see message DFHZC2400.

System action: The state of the session at takeover is uncertain and the session is unbound in order to reset the states. The session is simlogged on, and proceeds as a normal emergency restart.

User response: Proceed as for a normal emergency restart.

Module: DFHZXRC

XMEOUT Parameters: *date, time,applid, termid, tranid, sense, instance, {1=DFHZXRC, 2=DFHZXRC, 3=DFHZXRC, 4=DFHZXRC, 5=DFHZXRC, 6=DFHZXRC, 7=DFHZXRC, 8=DFHZXRC, 9=DFHZXRC, 10=DFHZXRC, 11=DFHZXRC}*

Destination: CSNE

DFHZC6593I *date time applid termid tranid* **Node** *netname* **backup session started.** *sense* **((***instance***) Module name: {DFHZOPX})**

Explanation: Node *netname* has successfully issued an OPNDST OPTCD=BACKUP command to the connected LU.

For the meaning of *sense*, see message DFHZC2400.

System action: Processing continues.

User response: None.

Module: DFHZOPX

XMEOUT Parameters: *date, time,applid, termid, tranid, netname, sense, instance, {1=DFHZOPX, 2=DFHZOPX}*

Destination: CSNE

DFHZC6594I *date time applid termid tranid* **Node** *netname* **backup session reset - active session ended.** *sense* **((***instance***) Module name: {DFHZSCX})**

Explanation: The backup system has received a "hierarchical reset" UNBIND on the backup session to the named terminal. This implies that the active session has ended normally.

For the meaning of *sense*, see message DFHZC2400.

System action: CLSDST the backup session.

User response: None.

Module: DFHZSCX

XMEOUT Parameters: *date, time,applid, termid, tranid, netname, sense, instance, {1=DFHZSCX}*

Destination: CSNE

DFHZC6595I *date time applid termid tranid* **Node** *netname* **backup session not attempted.** *sense* **((***instance***) Module name: {DFHZOPN})**

Explanation: Before the OPNDST is issued, the backup system has abandoned the attempt to establish a backup session for one of the following reasons

- There is no XRF support in z/OS Communications Server (TCTVXRFS), or
- the TCTTE is flagged as a secondary. This CICS receives the BIND, but does not send it (TCTE2RY), or
- the TCTTE indicates that the LOGMODE keyword was specified on the terminal definition.

For the meaning of *sense*, see message DFHZC2400.

System action: If this system takes over, the autoconnect process attempts to acquire a session. In this case, it probably takes longer for the session to become available for use.

User response: Do not attempt a backup session.

Rectify error, or downgrade the recovery option specified for this terminal.

Module: DFHZOPN

XMEOUT Parameters: *date, time,applid, termid, tranid, netname, sense, instance, {1=DFHZOPN, 2=DFHZOPN, 3=DFHZOPN}*

Destination: CSNE

DFHZC6596 *applid* **CICS terminal control program cannot support XRF functions.** *sense* **((***instance***) Module name: {DFHZSEX | DFHZSLS})**

Explanation: The z/OS Communications Server ACB has been opened, and the function level of the terminal control program (ZCP) and z/OS Communications Server has been examined. It has been determined that XRF terminal functions cannot be supported in this execution of CICS.

This can be because one of the DFHZC*x* modules, or the TCT, was assembled against a version of z/OS Communications Server earlier than 3.1, or because the level of z/OS Communications Server that has just been opened is pre-3.1.

For the meaning of *sense*, see message DFHZC2400.

System action: Processing continues. Processing continues, but no z/OS Communications Server XRF functions can be supported.

User response: If z/OS Communications Server XRF functions are required, check the assembly of each of the DFHZC*x* modules and the TCT.

If a pre-3.1 release of z/OS Communications Server was used in the assembly process, then a warning MNOTE will have been issued.

The relevant modules should then be reassembled against the correct level of VTAM.

If the assembly of all modules is correct, then the z/OS Communications Server used in this execution is at a pre-3.1 level.

Module: DFHZSEX,DFHZSLS

XMEOUT Parameters: *applid, sense,instance, {1=DFHZSEX, 2=DFHZSLS}*

Destination: Console

DFHZC6598 *applid* **VTAM Shutdown in XRF Alternate system. CICS will abend.** *sense* **((***instance***) Module name: {DFHZTPX})**

Explanation: The TPEND exit has been driven because z/OS Communications Server has been shutdown. This is an XRF Alternate system and it cannot continue without VTAM.

For the meaning of *sense*, see message DFHZC2400.

System action: The system is abnormally terminated.

User response: Determine why and how z/OS Communications Server was shutdown.

Module: DFHZTPX

XMEOUT Parameters: *applid, sense,instance, {1=DFHZTPX}*

Destination: Console

DFHZC6901W *date time applid* **Autoinstall BIND for NETNAME** *netname* **is invalid. Internal RC(***X'response'***).**

Explanation: The bind passed for AUTOINSTALL of a resource has shown an error in the bind image check call. The fixed part of the BIND is printed (this is the part on which the validation code operates — see the *SNA Network Protocol Formats* for details of the BIND RU). The internal return code X'*code* identifies the location within the module that invalidated the BIND.

System action: CICS continues but the session is not installed. The request is rejected and message DFHZC2411 is issued. The terminal is not usable until a z/OS Communications Server LOGOFF command is issued.

User response: Investigate the fixed part of the BIND data to determine the reason for the rejection. The internal return code gives more information that can be used by IBM to help you to determine the cause of the problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHZATA

XMEOUT Parameters: *date, time,applid, netname, X'response'*

Destination: CADL

DFHZC6902E *date time applid* **Autoinstall failed because no** *{terminal | console}* **models are defined.**

Explanation: An attempt was made to autoinstall either a z/OS Communications Server device or a console; however, there are no appropriate autoinstall models defined.

System action: CICS processing continues, but the autoinstall logon attempt is rejected.

User response: Use CEDA to define autoinstall model(s). For further information, refer to the *CICS Resource Definition Guide*.

Module: DFHZATA, DFHZATA2

XMEOUT Parameters: *date, time,applid, {1=terminal, 2=console}*

Destination: CADL

DFHZC6903W *date time applid* **Autoinstall for** *resource resid*, *{netname | consolename} id* **using model** *model* **failed.**

Explanation: The connection or terminal or console build process failed. The reason is given in a following DFHZC59xx, DFHZC62xx or DFHZC63xx message referring to the same *resid*. These messages are followed by message DFHZC6942.

System action: Processing continues.

User response: Refer to following messages for further information.

Module: DFHZATA, DFHZATA2

XMEOUT Parameters: *date, time,applid, resource, resid, {1=netname, 2=consolename}, id,model*

Destination: CADL

DFHZC6904W *date time applid* **Autoinstall for** *{netname | consolename} id* **failed. CATA task abended (abend** *abend***).**

Explanation: Transaction CATA was autoinstalling a terminal or console, *id*, when the task abended with abend *abend*. If the resource being autoinstalled was a terminal, then the issuing module was DFHZATA. Otherwise, the issuing module was DFHZATA2 if the resource was a console. The *id* can be either a netname or a consolename.

System action: CICS continues but the resource is not installed.

User response: Retry the logon attempt. If the abend indicates a TIMEOUT and this occurs frequently, increase the CATA DTIMOUT value. If you do not want the CATA transaction to time out, remove the DTIMOUT parameter from the CATA DEFINE TRANSACTION command. However, if you do this, and if the system is short on storage, a large number of CATA transactions running at the some time with no other transactions present could cause a deadlock.

Module: DFHZATA, DFHZATA2

XMEOUT Parameters: *date, time,applid, {1=netname, 2=consolename}, id, abend*

Destination: CADL

DFHZC6905W *date time applid* **Autoinstall delete for** *resource resid*, *{netname | consolename} id* **failed. CATD task abended (abend** *abend***).**

Explanation: Transaction CATD, program DFHZATD was deleting an autoinstalled *resource resid*, when the task abended with abend *abend*.

System action: CICS continues. If the resource still exists, it is reused next time the same TERMID or SYSID is used.

User response: See the description of abend *abend* for further guidance.

If the abend indicates a TIMEOUT and this occurs frequently, increase the CATD DTIMOUT value. If you do not want the CATD transaction to time out, remove the DTIMOUT parameter from the CATD DEFINE TRANSACTION command. However, a large number of CATD tasks running at the same time with no purgeable tasks present could cause a deadlock if the system is also short on storage.

Module: DFHZATD

XMEOUT Parameters: *date, time,applid, resource, resid, {1=netname, 2=consolename}, id,abend*

Destination: CADL

DFHZC6906 *date time applid* **Install or delete of remote terminal** *termid* **failed.** *tranid* **task abended (abend** *abend***).**

Explanation: One of the functions of DFHZATS (transaction CITS, CDTS, CMTS or CFTS) has abended with abend *abend*.

System action: CICS continues.

For CITS (remote install), if the remote terminal (skeleton) was actually built, CICS might use it.

For CDTS (remote delete), If the remote terminal (skeleton) has not been deleted, it might be reused.

For CMTS (remote mass delete), terminals which have not been deleted by CMTS might be deleted at a later stage.

For CFTS (remote mass flag), terminals which have been flagged for deletion might be deleted at a later stage. If any terminals have not been flagged, attempts might be made to reuse them. This can have unpredictable results.

User response: See the description of abend *abend* for further guidance.

The most likely reason for this message is a timeout of CITS or CDTS. In the case of CITS, reissue your transaction if necessary.

If the TIMEOUTs occur frequently, consider increasing the CITS or CDTS DTIMOUT values. If you do not want the transactions to time out, remove the DTIMOUT parameter from the CITS or CDTS DEFINE TRANSACTION command. However, a large number of CITS tasks running at the same time with no purgeable tasks present could cause a deadlock if the system is also short on storage.

Note that CFTS and CMTS do not have a DTIMOUT parameter and should not be given one because they only run once after a warm or emergency restart and should not be allowed to time out.

Module: DFHZATS

XMEOUT Parameters: *date, time,applid, termid, tranid, abend*

Destination: CADL

DFHZC6907I *date time applid* **Autoinstall starting for netname** *netname***. Network qualified name is** *netid.realnet***.**

Explanation: CICS has started to autoinstall a terminal or a connection. This message shows the *netname* by which CICS will know the device and network qualified name *netid.realnet* showing the origin of the resource.

System action: CICS continues.

User response: None. This message is for information only.

Module: DFHZATA

XMEOUT Parameters: *date, time,applid, netname, netid, realnet*

Destination: CADL

DFHZC6908I *date time applid* **Autoinstall in progress for netname** *netname***. TN3270 IP address is** *tnaddr***.**

Explanation: CICS is autoinstalling a terminal. This message shows the *netname* by which CICS will know the device and the TN3270 IP address, port number and host name (if present).

System action: CICS continues.

User response: None. This message is for information only.

Module: DFHZATA

XMEOUT Parameters: *date, time,applid, netname, tnaddr*

Destination: CADL

DFHZC6910W *date time applid* **Install for remote terminal** *termid* **failed.**

Explanation: An INSTALL for the remote terminal *termid* has failed. The reason for the failure is specified in associated DFHZC59xx and DFHZC62xx messages.

System action: DFHZATS terminates abnormally with a CICS transaction dump.

User response: See the associated messages for further guidance.

Module: DFHZATS

XMEOUT Parameters: *date, time,applid, termid*

Destination: CADL

DFHZC6911W *date time applid* **Delete for remote terminal** *termid* **failed.**

Explanation: A DELETE for remote terminal *termid* has failed. Possible causes are that the terminal has already been deleted or that it is in use by another task.

If this message is repeated a number of times, there could be a more serious problem.

System action: If the message is associated with message DFHZC6912, CICS continues normally. If message DFHZC6912 is not issued, DFHZATS is abnormally terminated with a transaction dump.

User response: If the message is associated with message DFHZC6912, no action is necessary. If DFHZC6912 is not issued, see the associated DFHZC59xx, DFHZC62xx and DFHZC63xx messages for the reason for the DELETE failure.

Module: DFHZATS

XMEOUT Parameters: *date, time,applid, termid*

Destination: CADL

DFHZC6912I *date time applid* **Unable to delete remote terminal.**

Explanation: This message is issued during a mass delete of remote terminals following a warm or emergency restart. A terminal which had been flagged for deletion could not be deleted. The most likely explanation is that the terminal has already been deleted by another task.

An associated DFHZC6911 message gives the identity of the terminal. This might be associated with one or

more DFHZC59xx and DFHZC62xx messages giving the reason for the failure.

System action: Processing continues normally.

User response: See the associated messages for further information.

Module: DFHZATS

XMEOUT Parameters: *date, time,applid*

Destination: CADL

DFHZC6913I *date time applid* **Remote delete of terminal** *termid* **failed. Terminal not found.**

Explanation: A remote DELETE has been attempted for a terminal which has already been deleted by another task.

System action: Processing continues normally.

User response: None.

Module: DFHZATS

XMEOUT Parameters: *date, time,applid, termid*

Destination: CADL

DFHZC6914E *date time applid* **Autoinstall for resource** *termid*, *{netname | consolename} id* **failed. Bad Return Code (RC =** *X'retcode'* **) from an internal function call.**

Explanation: The TCTTE build process failed due to the failure of an internal function call.

System action: The terminal autoinstall process fails. CICS processing continues.

User response: Retry the logon attempt.

Module: DFHZATA, DFHZATA2

XMEOUT Parameters: *date, time,applid, termid, {1=netname,2=consolename}, id, X'retcode'*

Destination: CADL

DFHZC6915E *date time applid* **Unable to sign off remote terminal** *termid*. **Bad Return Code (RC =** *X'SNUS_RESPONSE'* **) from signon domain call.**

Explanation: An unexpected response (INVALID, DISASTER or EXCEPTION) has been received on a call by DFHZATS to function SIGNOFF_TERMINAL_USER during sign-off processing for a remote terminal session running under CRTE.

System action: The terminal sign-off process fails to complete and the terminal user remains signed on. CICS processing continues.

User response: See the related message produced by the domain that detected the original error.

Module: DFHZATS

XMEOUT Parameters: *date, time,applid, termid, X'SNUS_RESPONSE'*

Destination: CADL

DFHZC6920 E *date time applid* **APPC autoinstall for NETNAME** *netname* **failed. RC** *x*

Explanation: An autoinstall attempt to install APPC NETNAME *netname* has failed. The autoinstall program call to the autoinstall control program failed with return code *x*.

The return codes are mapped from the program manager LINK_URM response and reason. More precise reasons for failure can be obtained from trace point PG 0A02.

System action: CICS continues.

User response: The appropriate response depends on the return code as follows

1 The user exit program should be linked with AMODE(31). Ensure that the user exit is linked to the correct AMODE.

2 The user exit program has no resource definition. Ensure that the PROGRAM resource definition for the user exit program is installed.

3 The user exit program could not be loaded. Ensure that the user exit program is contained in one of the data sets concatenated in the DFHRPL DD statement and has the correct name.

4 The user exit program has abended. This is a possible error within the user exit program. Check for any abend codes that may have been issued.

5 Loading of the user exit program failed for some other reason. Check the DFHPGLU exit trace entry (PG 0A02) to see why the program manager was unable to load the program.

Module: DFHZGAI

XMEOUT Parameters: *date, time,applid, netname, x*

Destination: CADL

DFHZC6921W *date time applid* **Autoinstall for NETNAME** *netname* **has been disallowed by the autoinstall control program. Code** *X'code'*

Explanation: An APPC connection not known to CICS has attempted to connect to CICS. However, the autoinstall control program has given a nonzero return code indicating that the install cannot go ahead.

If you do not support APPC autoinstall, the autoinstall

control program (DFHZATDX is the default name) automatically returns a nonzero return code to disallow this function.

System action: The exception trace entry *code* shows the parameter list for the autoinstall control program. The session is terminated. CICS continues.

User response: The failure code X'*code*' is as follows

X'FA07'
If APPC autoinstall is not supported, use the *netname* to determine which device is attempting autoinstall.

If APPC autoinstall is supported, examine the autoinstall control program to determine why it has not set the return code to allow the install.

Module: DFHZGAI

XMEOUT Parameters: *date, time, applid, netname, X'code'*

Destination: CADL

DFHZC6922E *date time applid* **Parameter list error during autoinstall for NETNAME** *netname***. Code** *X'code'*

Explanation: An APPC connection not known to CICS has attempted to connect to CICS. However, the autoinstall control program has returned an invalid parameter, or a parameter that has led to an invalid template being used.

System action: The exception trace entry *code* shows the parameter list for the autoinstall control program. The session is terminated. CICS continues.

User response: The failure code X'*code*' is one of the following

X'FA08'
No netname or sysid was supplied for the template. Change the autoinstall control program to supply either the netname or the sysid.

X'FA09'
The sysid for the new connection has invalid characters. It can only contain A-Z a-z 0-9 and £#@ (where £ is X'5B') Redefine the connection name in the autoinstall control program.

X'FA0A'
The sysid for the new connection already exists. Change the autoinstall control program to supply a unique name.

X'FA0B'
CICS is unable to locate the supplied template netname. Change the autoinstall control program to supply the correct template name, or use CEDA to install the template connection.

X'FA0C'
CICS is unable to locate the supplied template sysid. Change the autoinstall control program to supply the correct template sysid or use CEDA to install the template connection.

X'FA0D'
The template is not an APPC connection. Change the autoinstall control program to supply the correct template name, or use CEDA to reinstall the template correctly.

X'FA0E'
The bind indicates that a parallel session connection is required. The template is a single session connection. Change the autoinstall control program to supply the correct template name, or use CEDA to reinstall the template correctly.

X'FA0F'
The bind indicates that a single session connection is required. The template is a parallel session connection. Change the autoinstall control program to supply the correct template name or use CEDA to reinstall the template correctly.

X'FA10'
The modename in the bind does not match the modename in the connection.

For parallel sessions, the SNASVCMG modegroup is missing. The install for the template may have failed - check for any CADL messages mentioning the template name. The template connection may have been corrupted. Try and re-install the template.

For single sessions, the user modegroup name does not match. Change the autoinstall control program to supply the correct template name or use CEDA to reinstall the template correctly.

X'FA11'
The program that attempted to INQUIRE on the template has detected an error in the template and is unable to create a BPS with which to install the new connection. This problem may be caused by a failure in the initial install of the template. Check the console and CADL log to determine whether the template installed correctly. Also, use CEMT to ensure that the CONNECTION is correct.

X'FA12'
The program that attempted to INQUIRE on a user modegroup for the named template has detected an error in the template and is unable to create a BPS with which to install a user modegroup. This problem may be caused by a failure in the initial install of the template. Check the console and CADL log to determine

whether the template installed correctly. Also use CEMT to ensure that the MODEGROUP is correct.

X'FA13'
The template connection has no user modegroup. This problem may be caused by a failure in the initial install of the template. Check the console and the CADL log to determine whether the template installed correctly. Also, use CEMT to ensure that the MODEGROUP is correct.

X'FA14'
The template connection is out of service so this install cannot continue. If the install should have been allowed to continue, put the relevant template connection INSERVICE using CEMT.

X'FA15'
The incoming bind user data does not have a PLUNAME Network Name subfield (id 04). This is required and should have been supplied by the PLU.

X'FA16'
The incoming bind user data does not have a MODENAME Network Name subfield (id 02). This is required and should have been supplied by the PLU.

Module: DFHZGAI

XMEOUT Parameters: *date, time, applid, netname, X'code'*

Destination: CADL

DFHZC6923E *date time applid* **Unacceptable bind parameter during autoinstall for NETNAME** *netname***. Code** *X'code'*

Explanation: CICS has received a BIND from an unknown APPC node. The autoinstall process was initiated, but an invalid bind parameter has been detected. The parameter in error is indicated by the failure code X'*code*' which is one of the following:

X'FA18'
There was no session instance ID field in the bind user data.

X'FA19'
There was no primary logical unit (PLU) name in the bind user data.

X'FA1A'
The PLU name in the bind user data is the same as the LU name of this CICS.

X'FA1B'
Security information (an encryption seed) was expected, but not present, in the bind user data.

X'FA1C'
Security information (an encryption seed) was found in the bind user data but its length was too high for it to be valid.

X'FA1D'
Security information (an encryption seed) was found in the bind user data when none was expected.

X'FA1E'
The received bind indicated that it was not negotiable. This is not acceptable for an APPC connection.

X'FA1F'
The received bind specified a primary RU size of zero.

X'FA20'
The received bind specified a secondary RU size of zero.

X'FA21'
The received bind contained inconsistent access security indicators.

X'FA22'
Two security information fields (seed and nonce field) were found in the received BIND where only one was expected.

X'FA23'
The received BIND contained a nonce field with an incorrect length.

X'FA24'
The received BIND did not contain a nonce field.

X'FA25'
The received BINDs security mechanisms field length was smaller than the minimum defined by the Architecture.

X'FA26'
The received BINDs security mechanisms field contained an invalid length for the mechanism identifier field.

System action: The exception trace entry with trace point ID 'AP xxxx' (where xxxx is X'*code*') shows the bind that was received. The session is terminated. CICS continues.

User response: Change the definitions on the connecting LU so that the bind parameters are acceptable to CICS.

Module: DFHZGAI

XMEOUT Parameters: *date, time, applid, netname, X'code'*

Destination: CADL

DFHZC6935I *date time applid* **Autoinstall for** *restype resid* **with** *{netname | consolename} id* **using model or template** *model* **successful.**

Explanation: CICS has successfully installed resource *restype resid*, with id *id*, using model or template *model*. The *restype* can be TERMINAL or CONNECTION or CONSOLE depending on whether a terminal, an APPC connection, or a console has just been autoinstalled.

System action: CICS continues.

User response: None.

Module: DFHZATA, DFHZATA2

XMEOUT Parameters: *date, time,applid, restype, resid, {1=netname, 2=consolename}, id,model*

Destination: CADL

DFHZC6936I *date time applid* **Autoinstall for NETNAME** *netname*, **model** *modelname* **in MTS control vector not known to CICS.**

Explanation: The z/OS Communications Server MTS control vector contained a model name *modelname* not defined to CICS.

System action: CICS continues. This message is informational.

User response: There are four possible ways of correcting this problem

- Use the CEDA transaction to define and install the autoinstall model
- Change the z/OS Communications Server MTS MDLTAB MODEL= entry to the name of an existing autoinstall model.
- Logon to CICS with a MODEL= parameter that defines an existing autoinstall model.
- Code an Autoinstall User Program. Examples are given in the Customization Guide in the Sample Programs and Copybooks section.

Module: DFHZATA

XMEOUT Parameters: *date, time,applid, netname, modelname*

Destination: CADL

DFHZC6937I *date time applid* **Autoinstall for NETNAME** *netname*, **MTS model** *modelname* **and bind image mismatch.**

Explanation: An autoinstall attempt occurred using the modelname printed. The MODEL BIND (from the CICS model definition) did not match with the incoming bind in CINIT. The MISMATCH_BITS show which bind bits did not match.

System action: CICS continues.

User response: There are four possible ways of correcting this problem

- Change the CICS autoinstall MODEL *modelname* to produce a bind that matches the incoming CINIT.
- Change the MTS MDLTAB MODEL= entry to a model name defined to CICS whose bind matches the CINIT defined in the LOGMODE for this terminal.
- Change the z/OS Communications Server LOGMODE for this terminal to match the chosen CICS MODEL_BIND.
- Code an autoinstall user program. Examples are given in the Sample Programs and Copybooks section of the *CICS Customization Guide*.

Module: DFHZATA

XMEOUT Parameters: *date, time,applid, netname, modelname*

Destination: CADL

DFHZC6939W *date time applid* **Autoinstall for NETNAME** *netname*, **Invalid length** *nn* **found in cinit control vector at offset** *offset*

Explanation: CICS verification checks on the format of the control vectors in the CINIT have failed.

offset indicates the first point of failure. This is either a length field greater than 128, or a length field which would cause CICS to overrun the end of a CINIT vector or subvector.

This is either due to incorrect format of the CINIT RU (and therefore probably a z/OS Communications Server logic error), or due to incorrect parsing of the CINIT RU by DFHZATD, which is a CICS logic error.

System action: CICS continues. The logon request is rejected.

User response: Inspect the format of the CINIT RU as captured by the autoinstall program for all rejected logon requests. The first point of failure may be at *offset* or before it since CICS verification checks are permissive.

If the format is incorrect, the origin of the invalid CINIT should be tracked and the problem resolved there.

If the format is correct, this is a CICS logic error. In this case you will need further assistance from IBM. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHZATA

XMEOUT Parameters: *date, time,applid, netname, nn, offset*

Destination: CADL

DFHZC6942W *date time applid* **Autoinstall for** *resource resid* **failed.**

Explanation: An AUTOINSTALL attempt to install *resource resid* has failed.

System action: CICS continues.

User response: For the cause of the failure, look for a previous message containing the same *resid*.

Module: DFHZATA, DFHZATA2

XMEOUT Parameters: *date, time,applid, resource, resid*

Destination: CADL

DFHZC6943W *date time applid* **Autoinstall delete for** *resource resid*, *{netname | consolename} id* **failed.**

Explanation: An AUTOINSTALL attempt to delete *resource resid* has failed.

System action: CICS continues.

User response: For the cause of the failure, look for a previous message containing the same *resid*.

Module: DFHZATD

XMEOUT Parameters: *date, time,applid, resource, resid, {1=netname, 2=consolename}, id*

Destination: CADL

DFHZC6944 W *date time applid* **Autoinstall for** *{netname | consolename} id* **failed. RC** *x*

Explanation: An autoinstall attempt to install terminal *id* has failed. The autoinstall program call to the user exit program failed with return code *x*. The *id* is either a netname or a consolename.

System action: CICS continues.

User response: Possible causes of the problem and an indication of how to solve them are given in the following list of return code meanings

Return code	Meaning and solution
1	The user exit program should be linked with AMODE(31). Ensure that the user exit is linked to the correct AMODE.
2	The user exit program has no resource definition. Ensure that the PROGRAM resource definition for the user exit program is installed.
3	The user exit program could not be loaded. Ensure that the user exit program is contained in one of the data sets concatenated in the DFHRPL DD statement and has the correct name.
4	The user exit program has abended. This is a possible error within the user exit program. Check for any abend codes that may have been issued.

Module: DFHZATA, DFHZATA2

XMEOUT Parameters: *date, time,applid, {1=netname, 2=consolename}, id, x*

Destination: CADL

DFHZC6945 W *date time applid* **Autoinstall delete for** *{netname | consolename} id* **failed. RC** *x*

Explanation: An autoinstall attempt to install resource *id* has failed. The issuing module, either DFHZATA or DFHZATA2, called the user exit program for DELETE but the user exit failed for reasons given in return code *x*. If the resource being installed was a terminal, the issuing module was DFHZATA. Otherwise, if a console was being installed, DFHZATA2 was the issuing module.

System action: CICS continues.

User response: Possible causes of the problem and an indication of how to solve them are given in the following list of return code meanings

Return code	Meaning and solution
1	The user exit program should be linked with AMODE(31). Ensure that the user exit is linked to the correct AMODE.
2	The user exit program has no resource definition. Ensure that the PROGRAM resource definition for the user exit program is installed.
3	The user exit program could not be loaded. Ensure that the user exit program is contained in one of the data sets concatenated in the DFHRPL DD statement and has the correct name.
4	The user exit program has abended. This is a possible error within the user exit program. Check for any abend codes that may have been issued.

Module: DFHZATA, DFHZATA2

XMEOUT Parameters: *date, time,applid, {1=netname, 2=consolename}, id, x*

Destination: CADL

DFHZC6946 W *date time applid* **Delete user exit for autoinstalled** *resource resid*, *{netname | consolename} id* **failed. RC** *x*.

Explanation: CICS has deleted the autoinstalled *resource resid*. The call to the delete user exit program failed for reasons given in return code *x*.

System action: CICS continues.

User response: Possible causes of the problem and an indication of how to solve them are given in the following list of return code meanings

Return code
Meaning and solution

1 The user exit program should be linked with AMODE(31). Ensure that the user exit is linked to the correct AMODE.

2 The user exit program has no resource definition. Ensure that the PROGRAM resource definition for the user exit program is installed.

3 The user exit program could not be loaded. Ensure that the user exit program is contained in one of the data sets concatenated in the DFHRPL DD statement and has the correct name.

4 The user exit program has abended. This is a possible error within the user exit program. Check for any abend codes that may have been issued.

Module: DFHZATD

XMEOUT Parameters: *date, time,applid, resource, resid, {1=netname, 2=consolename}, id,x*

Destination: CADL

DFHZC6948W *date time applid* **Delete for connection** *sysid***, NETNAME** *netname* **failed due to CATD initiation failure. Module** *module***.**

Explanation: CICS was attempting to delete an autoinstalled APPC connection *sysid* but the attempt failed because CICS was unable to initiate the CATD transaction. The specific circumstances depend on the module

DFHZATR
After a CICS restart transaction, DFHZATR was driven to delete autoinstalled connections but CATD failed to initiate.

DFHZCLS
Connection *sysid* was released and DFHZCLS was attempting to initiate the CATD transaction to delete the connection but CATD failed to initiate.

DFHZGCH
An attempt was made to delete *sysid* after a successful CHANGE ENDAFFIN request; however, CATD failed to initiate.

System action: The connection is left in a released state. CICS continues.

User response: Ensure that the definitions for transaction CATD and program DFHZATD are correct. If you still wish to delete this connection, use CEMT DISCARD CONNECTION or EXEC CICS DISCARD CONNECTION.

Module: DFHZATR, DFHZCLS, DFHZGCH

XMEOUT Parameters: *date, time,applid, sysid, netname, module*

Destination: CADL

DFHZC6950 W *date time applid* **Autoinstall for terminal** *termid* **failed with RC** *x***.**

Explanation: An autoinstall attempt to install terminal *termid* has failed. The autoinstall program call to the user exit program failed with return code *x*.

System action: CICS continues.

User response: Possible causes of the problem and an indication of how to solve them are as follows

Return code
Meaning and solution

1 The user exit program is not linked with AMODE(31). Ensure that the user exit is linked to the correct AMODE.

2 The user exit program has no resource definition. Ensure that the PROGRAM resource definition for the user exit program is installed.

3 The user exit program could not be loaded. Ensure that the user exit program is contained in one of the data sets concatenated in the DFHRPL DD statement and has the correct name.

4 The user exit program has abended. This is a possible error within the user exit program. Check for any abend codes that may have been issued.

Module: DFHZATS

XMEOUT Parameters: *date, time,applid, termid, x*

Destination: CADL

DFHZC6951 W *date time applid* **Autoinstall for terminal** *termid* **failed with RC** *x***.**

Explanation: An autoinstall attempt to install terminal *termid* has failed. The autoinstall program call to the user exit program failed with return code *x*.

System action: CICS continues.

User response: Possible causes of the problem and an indication of how to solve them are as follows

Return code
Meaning and solution

1 The user exit program is not linked with

AMODE(31). Ensure that the user exit is linked to the correct AMODE.

2 The user exit program has no resource definition. Ensure that the PROGRAM resource definition for the user exit program is installed.

3 The user exit program could not be loaded. Ensure that the user exit program is contained in one of the data sets concatenated in the DFHRPL DD statement and has the correct name.

4 The user exit program has abended. This is a possible error within the user exit program. Check for any abend codes that may have been issued.

Module: DFHZATMD

XMEOUT Parameters: *date, time,applid, termid, x*

Destination: CADL

DFHZC6958W *date time applid* **Autoinstall for** *{netname | consolename} id*, **resource** *X'termid'* **failed.** *{RESOURCE | PRINTER | ALTPRINTER}* **ID is invalid. RC=***n***.**

Explanation: The *RESOURCE*, *PRINTER*, or *ALTPRINTER* ID supplied by the AUTOINSTALL exit program is invalid. The return code *n* can be one of the following

n	Meaning
1	Invalid blank in column one
2	Invalid imbedded blank
3	Invalid character used.

System action: CICS continues but does not install the object.

User response: Change the AUTOINSTALL exit program to create IDs that contain only valid characters. These are specified in the *CICS Resource Definition Guide*.

Module: DFHZATA, DFHZATA2

XMEOUT Parameters: *date, time,applid, {1=netname, 2=consolename}, id, X'termid', {1=RESOURCE, 2=PRINTER, 3=ALTPRINTER}, n*

Destination: CADL

DFHZC6966I *date time applid* **Autoinstall delete for** *restype resid* **with** *{netname | consolename} id* **was successful.**

Explanation: CICS has successfully deleted the autoinstalled resource *restype resid*. The *restype* can be a terminal, an APPC connection, or a console.

System action: CICS continues.

User response: None.

Module: DFHZATD

XMEOUT Parameters: *date, time,applid, restype, resid, {1=netname, 2=consolename}, id*

Destination: CADL

DFHZC6987W *date time applid* **Autoinstall best failure for NETNAME** *netname* **was model** *model***.**

Explanation: An autoinstall attempt has failed for lack of an exact match.

netname is the netname of the LU which failed to logon,

model is the name of the model that gave the best failure (that is, the one that had the fewest bits different from the BIND image supplied by z/OS Communications Server).

The following associated information is also written to CADL

xxxxxxxx... is a string of hexadecimal digits, where *xx* represents one byte, and each byte position represents the corresponding byte position in the BIND image.

CINIT BIND:*xxxxxxxx* is the bind image supplied by VTAM.

MODEL BIND:*xxxxxxxx* is the best model.

MISMATCH BITS: *xxxxxxxx* represents a comparison of the relevant bits from above. A bit set to '1' indicates a mismatch in that position between the BIND image from z/OS Communications Server and the BIND image associated with the model.

System action: CICS continues.

User response:

1. Determine whether the model *model* is suitable. If there are several models which have options, such as TRANSECKEYS, then only the first such model is named in the above message. It will be up to the user-program to make the choice, when the logmode table entry is corrected.
2. Identify the entry in the z/OS Communications Server logmode table that is being used.
3. Check that this logmode table entry is not successfully in use with other applications, so that to change it might cause this other use of it to fail.
4. Amend the logmode table entry by switching the bits corresponding to '1' bits in the mismatch string. That is, if the bit in the z/OS Communications Server bind image corresponding to the bit position set to '1' in *xxxxxxxx*... is '1', set it to '0'. If it is '0', set it to '1'.

For further information, refer to the *CICS Customization Guide*.

More on the meaning of the various bits in a bind image may be found in *ACF/Communications Server Programming* manual, (SC27-0611).

Details of the preparation of z/OS Communications Server logmode table entries are given in *ACF/Communications Server Customization* manual, (SC27-0613).

Module: DFHZATA

XMEOUT Parameters: *date, time,applid, netname, model*

Destination: CADL

DFHZEnnnn messages

DFHZE2600 **Syst.sense** *systsense*,*termid*,*taskid*, **Unidentified sense information**

Explanation: The error message writer (DFHEMW) was scheduled to send an error message, but could not identify the system sense code.

System action: The task is abnormally terminated.

User response: Refer to the associated messages that were issued previously for further information and guidance.

Module: DFHZEMW

Destination: Terminal End User

DFHZE2604 **Syst.sense 0811,***termid*,*taskid*, **Unprocessed data at detach**

Explanation: The task to be detached did not completely process the inbound data chain.

System action: Purging of data is done until end-of-chain (EOC) or CANCEL has been received.

User response: None.

Module: DFHZDET

Destination: Terminal End User

DFHZNnnnn messages

DFHZN2130 *date time applid* **A unit of work has been shunted but the connection with the remote system does not support the shunt protocols. Resources on the remote system may be out of sync with those on this CICS after the UOW is resynchronized. Failure date** *mm/dd/yy* **failure time** *hh:mm:ss* **remote system** *netname* **transaction** *tranid* **task number** *trannum* **operator terminal** *termid* **user** *userid* **network UOW** *netuowid* **local UOW** *X'localuow'*.

Explanation: This message is preceded by message DFHAC2231. An application has requested syncpoint, either via EXEC CICS SYNCPOINT or implicitly via EXEC CICS RETURN. The coordinator of the syncpoint is not this CICS system but is remote.

Transaction *tranid* has lost contact with its coordinator system during the indoubt period.

System action: In accordance with the transaction definition, the unit of work is not completed. It is allowed to wait for resynchronization with the coordinator system. The transaction is abnormally terminated with abend code ASP1. The unit of work is shunted to await the return of the coordinator system.

As part of this processing, CICS has attempted to pass on the shunt request to another partner system. However, this partner does not support the shunting protocols, and so this partner may backout or commit changes to its resources independently of this shunted unit of work.

User response: Following resynchronization with the coordinator system, determine whether the remote function shipped resources are out of synchronization. The action to take depends on local procedures and the design of the application program. For example, it may be possible to rerun the application but only making updates to remote resources. Refer to the *CICS Intercommunication Guide* for information on design considerations in a distributed environment.

Module: DFHCR2U

XMEOUT Parameters: *date, time,applid, mm/dd/yy, hh:mm:ss, netname, tranid,trannum, termid, userid, netuowid, X'localuow'*

Destination: CSMT

DFHZN2131 *date time applid* **Intersystem session failure during CICS synclevel one commit. Local resources may be out of sync with those on the remote system. Failure date** *mm/dd/yy* **failure time** *hh:mm:ss* **remote system** *netname* **transaction** *tranid* **task number** *trannum* **operator terminal** *termid* **user** *userid* **network UOW** *netuowid* **local UOW** *X'localuowid'*.

Explanation: A CICS application has been using APPC synclevel 1 to process remote function shipped resources. The application took a syncpoint, either

implicitly or explicitly, and this has caused all local resources and synclevel 2 partners to be committed. However, a session failure occurred at a critical time during the synclevel 1 commit processing, and the synclevel 1 function shipped resources may have committed successfully or may have backed out.

System action: CICS synclevel 1 commit processing continues, with the intention of committing as many synclevel 1 resources as possible. For APPC synclevel 1, CICS does not attempt to resolve the situation any further.

On completion of the syncpoint, CICS abends the user task.

User response: Determine whether the remote function shipped resources are out of synchronization. The action to take depends on local procedures and the design of the application program. For example, it may be possible to rerun the application but only making updates to remote resources. Refer to the *CICS Intercommunication Guide* for information on design considerations in a distributed environment.

Module: DFHCR2U

XMEOUT Parameters: *date, time,applid, mm/dd/yy, hh:mm:ss, netname, tranid,trannum, termid, userid, netuowid, X'localuowid'*

Destination: CSMT

DFHZN2132 *date time applid* **Rollback received in response to CICS synclevel one commit. Local resources are out of sync with those on the remote system. Failure date** *mm/dd/yy* **failure time** *hh:mm:ss* **remote system** *netname* **transaction** *tranid* **task number** *trannum* **operator terminal** *termid* **user** *userid* **network UOW** *netuowid* **local UOW** *X'localuowid'***.**

Explanation: A CICS application has been using APPC synclevel 1 to process remote function shipped resources. The application took a syncpoint, either implicitly or explicitly, and this has caused all local resources and synclevel 2 partners to be committed. However, when a commit message was sent to a synclevel 1 function shipped resource, the resource voted to backout.

System action: Synclevel 1 commit processing continues with the intention of committing as many synclevel 1 resources as possible. For APPC synclevel 1, CICS does not attempt to resolve the situation any further.

On completion of the syncpoint, CICS abends the user task.

User response: The action to take depends on local procedures and the design of the application program. For example, it may be possible to rerun the application but only making updates to remote resources. Refer to the *CICS Intercommunication Guide* for information on design considerations in a distributed environment.

Module: DFHCR2U

XMEOUT Parameters: *date, time,applid, mm/dd/yy, hh:mm:ss, netname, tranid,trannum, termid, userid, netuowid, X'localuowid'*

Destination: CSMT

DFHZN2133 *date time applid* **Error detected during CICS synclevel one commit. Reason code** *rc***. Local resources may be out of sync with those on the remote system. Failure date** *mm/dd/yy* **failure time** *hh:mm:ss* **remote system** *sysid* **transaction** *tranid* **task number** *trannum* **operator terminal** *termid* **user** *userid* **network UOW** *netuowid* **local UOW** *X'localuowid'***.**

Explanation: A CICS application has been using APPC synclevel 1 to process remote function shipped resources. The application took a syncpoint, either implicitly or explicitly, and this has caused all local resources and synclevel 2 partners to be committed. However, when a commit message was sent to a synclevel 1 function shipped resource, the reply indicated that an error has occurred. The reason code provides details of the error and has the following values

01 Protocol violation by partner system – unexpected FMH data
02 Protocol violation by partner system – unexpected syncpoint message data
03 Abend received
04 Deadlock or read timeout.

System action: CICS synclevel 1 commit processing continues, with the intention of committing as many synclevel 1 resources as possible.

For reason code 01, a transaction dump with dump code ASPI is taken. For reason code 02, a transaction dump with dump code ASPJ is taken. On completion of the syncpoint, CICS abends the user task.

User response: The action to take depends on local procedures.

For reason codes 01 and 02, examine the dump to determine what message data was received from the partner. This information is held in one of the terminal input/output areas. A failure in the communication system might have caused corruption of the data.

Reason code 03 indicates that the partner system has sent an abend. There is an error in the partner system which may need to be investigated.

Reason code 04 indicates that the partner system took too long to respond to the synclevel 1 commit. There could be a problem with the remote system, or the communication system. It may be necessary to increase

the deadlock timeout or read timeout values to prevent this recurring.

Module: DFHCR2U

XMEOUT Parameters: *date, time,applid, rc, mm/dd/yy, hh:mm:ss, sysid, tranid, trannum, termid, userid, netuowid,X'localuowid'*

Destination: CSMT

DFHZN2200 *date time applid* **FREE IMPLICIT failed during syncpoint processing for session** *session id* **, remote system** *netname***. Transid** *transid***. The original abend code was** *abend code***.**

Explanation: A DFHTC FREE IMPLICIT request for a non-principal facility MRO session has failed.

System action: CICS writes an exception trace entry with code '0D86' before issuing a DFHTC FREE DETACH request for the session.

User response: If the task was purged by the operator causing abend AZI9 or a read timeout occurred causing abend AZIG this error may be expected and no further action may be necessary.

Otherwise this failure may represent an error. To investigate further set up a system dump table entry for system dump code ZN2200. You may need further assistance from IBM to resolve this problem. See Part 4 of the *CICS Problem Determination Guide* for guidance on how to proceed.

Module: DFHCRIU

XMEOUT Parameters: *date, time,applid, session id, netname, transid, abend code*

Destination: CSMT

DFHZN2701 *date time applid* **Log data sent on ISC session is** *xxxxxxxx*

Explanation: This is an informational message. The transaction is communicating with a logical unit type LU6.2. It has sent an FMH (function management header) which carries log data.

System action: The transaction continues processing.

User response: None.

Module: DFHZERH

XMEOUT Parameters: *date, time,applid, xxxxxxxx*

Destination: CSNE

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Other CICS publications

The following publications contain further information about CICS, but are not provided as part of CICS Transaction Server for z/OS, Version 4 Release 2.

Designing and Programming CICS Applications, SR23-9692

CICS Application Migration Aid Guide, SC33-0768

CICS Family: API Structure, SC33-1007

CICS Family: Client/Server Programming, SC33-1435

CICS Family: Interproduct Communication, SC34-6853

CICS Family: Communicating from CICS on System/390, SC34-6854

CICS Transaction Gateway for z/OS Administration, SC34-5528

CICS Family: General Information, GC33-0155

CICS 4.1 Sample Applications Guide, SC33-1173

CICS/ESA 3.3 XRF Guide , SC33-0661

Accessibility

Accessibility features help a user who has a physical disability, such as restricted mobility or limited vision, to use software products successfully.

You can perform most tasks required to set up, run, and maintain your CICS system in one of these ways:

- using a 3270 emulator logged on to CICS
- using a 3270 emulator logged on to TSO
- using a 3270 emulator as an MVS system console

IBM Personal Communications provides 3270 emulation with accessibility features for people with disabilities. You can use this product to provide the accessibility features you need in your CICS system.

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Readers' Comments — We'd Like to Hear from You

CICS Transaction Server for z/OS
Version 4 Release 2
CICS Messages and Codes Vol 2

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Readers' Comments — We'd Like to Hear from You
GC34-7176-01

Cut or Fold
Along Line

Fold and Tape | **Please do not staple** | Fold and Tape

PLACE
POSTAGE
STAMP
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IBM United Kingdom Limited
User Technologies Department (MP095)
Hursley Park
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Hampshire
United Kingdom
SO21 2JN

Fold and Tape | **Please do not staple** | Fold and Tape

Cut or Fold
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