



Ironstream for Microfocus Universal Discovery for IBM Z®

Administration Guide

Version 7.3.0



Ironstream for Micro Focus Universal Discovery for IBM Z: Administration Guide

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Version 7.3.0

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Preface

Audience

This document is intended for licensed Ironstream for Micro Focus Universal Discovery for IBM Z administrators and users. It describes configuring and operating the product and assumes it been installed as described in the *Installation Guide*.

Please note: *Ironstream for Micro Focus Universal Discovery for IBM Z®* was formerly *EView/390z Mainframe Discovery for Micro Focus Universal Discovery (UD) for UCMDB*. Precisely is in the process of re-branding all EView products to Ironstream.

Precisely Support

To contact Precisely Support, please visit <https://support.precisely.com/>.

Related Resources

Ironstream for Micro Focus Universal Discovery for IBM Z Administration Guide provides manuals to help you use the product and understand the underlying concepts. All product documentation is available at <https://support.precisely.com/>.

- *Installation Guide*

Explains how to install, de-install, and configure Ironstream for Micro Focus Universal Discovery for IBM Z. Also includes how to upload installation files from the Discovery Probe server and start and stop Ironstream processes.

In addition to Ironstream documentation, related Micro Focus UCMDB products provide a comprehensive set of manuals that help you use the products and improve your understanding of the underlying UCMDB concepts.

Revision History

This manual's title page contains the following identifying information:

- *Version number, which indicates the software version.*
- *Print date, which changes each time the document is updated.*

This table indicates changes made to this document since the last released edition.

Date	Description
September 2021	Rebranding

Configuring Ironstream

This chapter describes how to configure Ironstream for Micro Focus Universal Discovery for IBM Z. This chapter assumes that you have already followed the product installation instructions in the *Installation Guide* document.

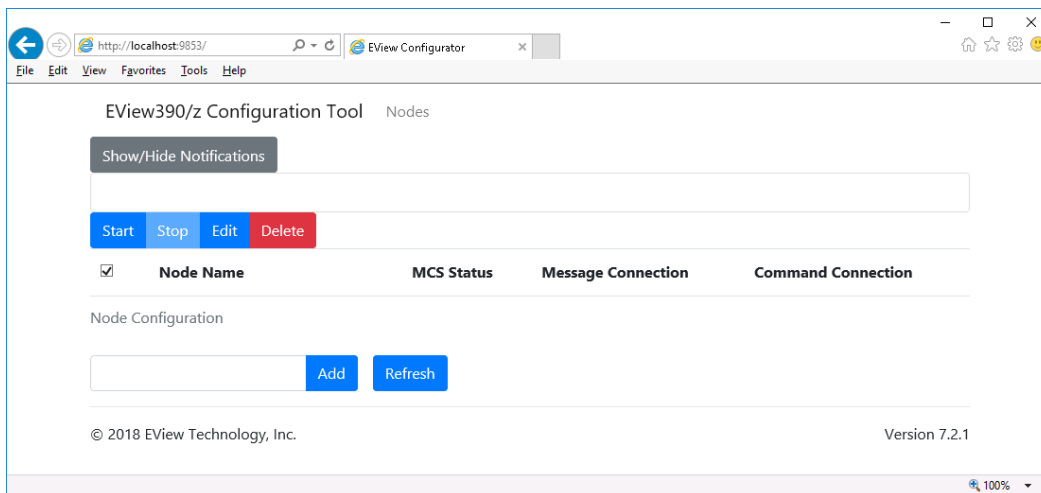
Phase 1: Configuring the Ironstream Mainframe Agent

Customization of the Ironstream agent job is accomplished by editing the appropriate parameter datasets on the IBM Z mainframe, then restarting the started task. Details for mainframe customization are given in the *Installation Guide*. Follow the instructions in the *Installation Guide* and start the job on the mainframe agent before continuing with the configuration on the Discovery Probe server.

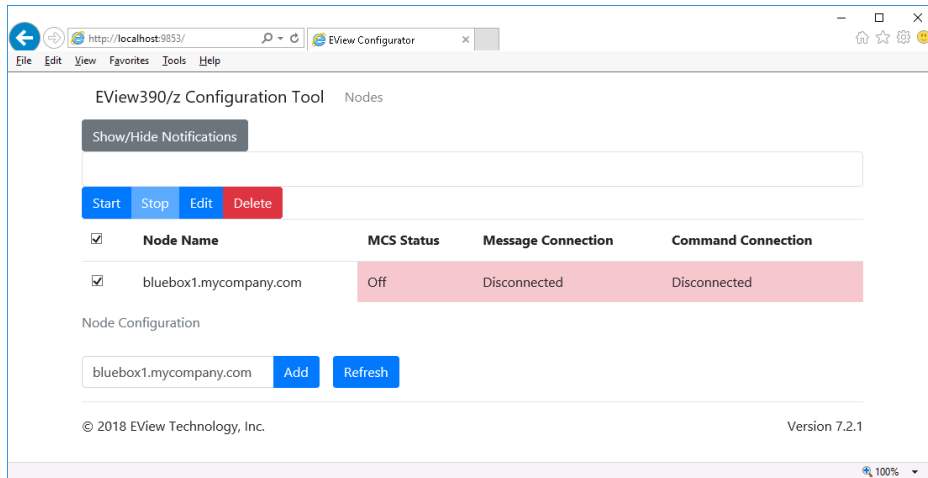
Phase 2: Adding IBM Z Systems to the Ironstream Configuration Tool

Start the Ironstream for Micro Focus Universal Discovery for IBM Z Configuration Tool web interface by entering the following from a web browser on the Ironstream UCMDB Probe server:

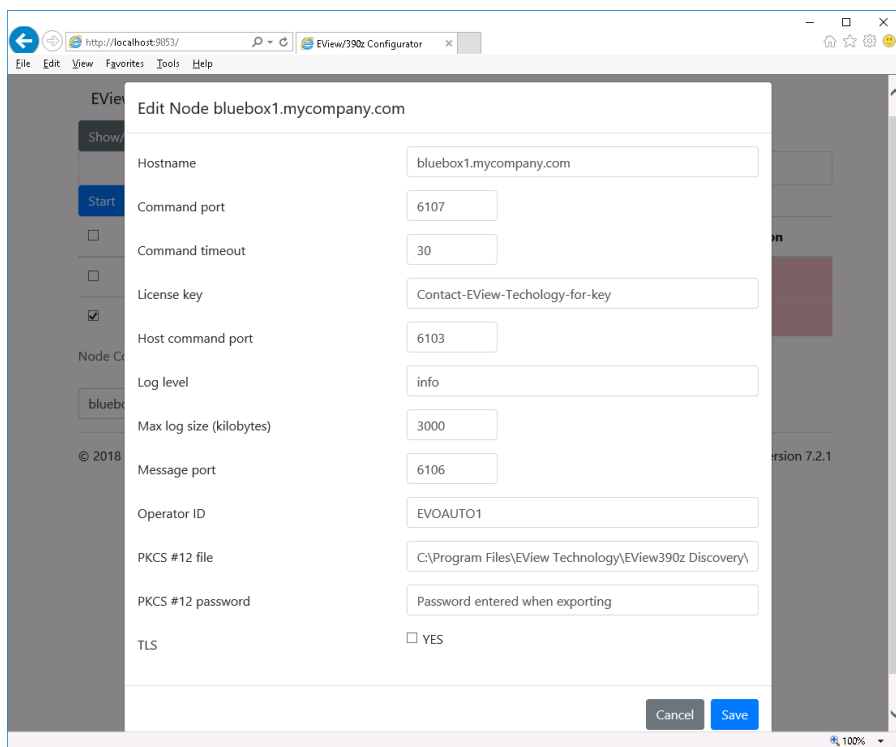
```
http://localhost:9853
```



1. Enter a fully qualified domain name for the mainframe LPAR in the New node name box to register the new node. The new node will be added to the list of Ironstream processes.



2. Check the box on the left of the Node Name and Click the **Edit** button to modify the parameters for the processes which will run for this new node. The default parameter values will allow an Ironstream connection to all necessary processes, but you may change these values if there is a conflict with other software running on your system.

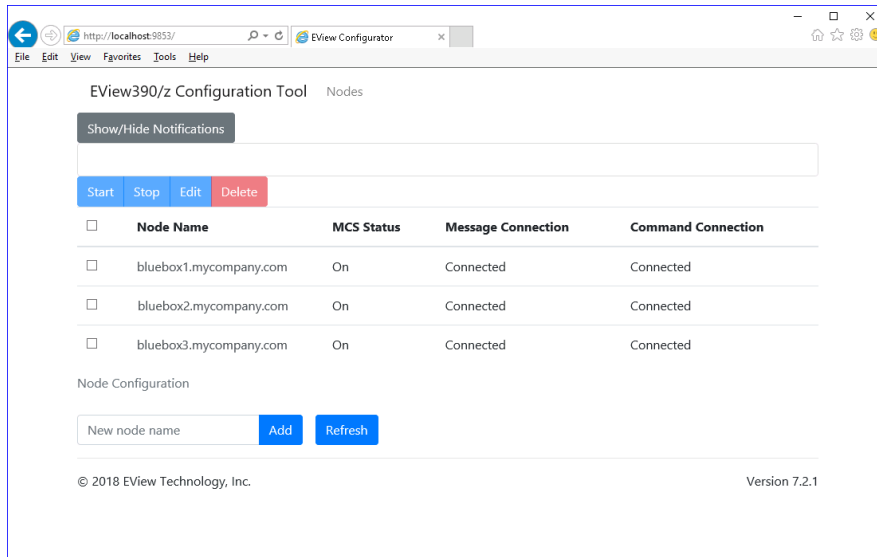


Parameter	Description
Hostname	The network name of the managed IBM Z LPAR node. The name may need to be fully qualified, depending on your DNS setup. Create a separate node for each LPAR.

<p>Host command port</p>	<p>A port reserved for Ironstream inter-process communications on the UCMDB Probe server.</p> <p>The default port is 6101, and must be unique on the UCMDB Probe server. It will increase automatically to avoid port conflicts as other IBM Z nodes are added.</p> <p>Valid Value: Any unused port number on the UCMDB Probe server</p> <p>Note: The port must be open for and outbound traffic.</p>
<p>Message port</p>	<p>The TCP/IP port on the IBM Z LPAR that the UD Probe server connects to, to receive messages. The default port number is 6106.</p> <p>Valid Value: Available mainframe TCP/IP port (greater than 1024).</p> <p>Note: The port must be in a Listening status on the IBM Z LPAR.</p> <p>Note: This port number MUST match the first number on the TCP parameter card for the started task on the mainframe agent. (See the TCP card definition in the <i>Installation Guide</i>.)</p>
<p>Command port</p>	<p>The TCP/IP port on the IBM Z LPAR that the Ironstream UD Probe server connects to, to send commands. The default port number is 6107.</p> <p>Valid Value: Available mainframe TCP/IP port (greater than 1024).</p> <p>Note: The port must be in a Listening status on the IBM Z LPAR.</p> <p>Note: This port number MUST match the second number on the TCP parameter card for the started task on the mainframe agent. (See the TCP card definition in the <i>Installation Guide</i>.)</p>
<p>Command timeout</p>	<p>The amount of time (in seconds) to wait for a response from a IBM Z command. The default is 30 seconds.</p>
<p>Operator ID</p>	<p>Defines the name of the NetView/390 autotask ID under which commands may be issued. If NetView/390 is in use on the mainframe, this name must match the name of the autotask defined in the NetView/390 DSIPARM(DSIOPF) member. The default is EVOAUTO1.</p>

License key	<p>The license key for this mainframe node. Each mainframe managed node requires a unique key to connect to the Ironstream management server, although the same key may be used for multiple LPARs of the same physical IBM Z system.</p> <p>See the <i>Installation Guide</i> for information on acquiring a license key.</p>
Max log size (kilobytes)	<p>Maximum size (in Kilobytes) of any file which is created on the Discovery probe server by Ironstream for logging or debug purposes. The default is 3000 (3MB).</p>
Log level	<p>Granularity of log tracing. Valid values are:</p> <ul style="list-style-type: none"> • info • debug • warning • error <p>The default is info.</p>
TLS	<p>If selected, enables TLS encryption between the server and the mainframe agent. See the <i>Installation Guide</i> for instructions on setting up a TLS encrypted connection.</p>
PKCS 12 file	<p>The full path and filename of the PKCS #12 file that was exported from the mainframe when using TLS encryption. See the <i>Installation Guide</i> for instructions on setting up a TLS encrypted connection.</p>
PKCS 12 password	<p>The password of the PKCS #12 file that was exported from the mainframe when using TLS encryption. See the <i>Installation Guide</i> for instructions on setting up a TLS encrypted connection.</p>

3. Click **Save** to close the Node Editor window, then select the added node and click the **Start** button to start the Ironstream processes for the node.



Phase 3: Starting and Stopping the Ironstream Processes

Use the Ironstream Configuration Tool to start and stop the processes for each defined IBM Z node.

- To *start* the Ironstream processes, click each line of processes listed in the Ironstream Configuration Tool and click the **Start** button.
- To *stop* the Ironstream processes, click each line of processes listed in the Ironstream Configuration Tool and click the **Stop** button.

Sending Commands to the Agent

The Mainframe Discovery Adapter utilizes the UD Probe server interface to communicate requests to the Ironstream agent on the IBM Z systems. The UD Probe server interface provides the capability to request the agent to execute z/OS console commands, subsystem commands, reply to outstanding WTORs, execute REXX programs and requests other information via the Ironstream mainframe agent.

The `ev390hostcmd` is the interface to the Ironstream UD Probe server for executing mainframe commands, subsystem commands, REXX programs or requesting information via the Discovery agent. The format of `ev390hostcmd` is:

```
ev390hostcmd <type> <command>.<zOS_system_name>
```

where:

<type>	Specifies a code to direct where the command should be executed on the mainframe. Three codes are valid: 40 = z/OS (MVS) commands. The command is sent to a MCS console defined for VP390 on the mainframe. The VP390 mainframe job must have a CMD subtask defined. 45 = z/OS (MVS) commands that do not return a response. This is the same as a Type 40 code, except the <code>ev390hostcmd</code> does not wait for a response message with this option. 46 = z/OS system information commands. The command instructs the VP390 mainframe task to gather specific z/OS system information such as CPU usage or JES2 job queue contents. See section “Sending Commands to the Agent” for the syntax of a type 46 command. The VP390 mainframe job must have an OSINFO subtask defined.
<command>	The command text, syntax dependent on the type. The first period (.) encountered is used to mark the end of the command. If the command text has a period in it, enter two periods to signify that it is not the end of the command. See the example below.
<zOS_system>	The IBM Z system on which the command is to be executed. Use the IP name of the mainframe domain. This name must match the name of the IBM Z system that was configured in the Ironstream Configuration Tool.

Examples:

- Send an MVS command to the mainframe named `myhost.mysite.com` to display the system time:

```
ev390hostcmd 40 D T.myhost.mysite.com
```

- Send an MVS command to the mainframe named myhost.mysite.com to start a job named MYJOB with a job identifier of MYIDENT (note that the period between MYJOB and MYIDENT must be doubled to signify that it is not the end of the command):

```
ev390hostcmd 45 S MYJOB..MYIDENT.myhost.mysite.com
```

Using OSINFO System Information API Commands

The OSINFO subtask of the VP390 agent task will gather various z/OS operating system statistics and present the data in a format that can be parsed by a script. The OSINFO subtask can also be requested to run REXX programs or list information from physical sequential or partitioned datasets. OSINFO data are requested using type 46 of the `ev390hostcmd` utility. (See section “Sending Commands to the Agent” for syntax of `ev390hostcmd`.)

The OSINFO data are requested by specifying a two-digit code followed by a vertical bar and additional parameter information depending on the selected code. For example, to gather DASD information (code 01) for a volume named "disk99" on mainframe "s390.mysite.com," the `ev390hostcmd` syntax is:

```
ev390hostcmd 46 "01|DISK99.s390.mysite.com"
```

Because the Windows/DOS shell interprets the vertical bar as a pipe symbol, the vertical bar will need to be escaped by enclosing everything after the last space inside double quotation marks.

Output lines for requests other than REXX programs or dataset listings will be returned with values separated by a vertical bar. One line will be generated for each record found, representing one job, device, etc. The last line will be the text "EOF".

Note: Codes 06, 07, and 08 require SDSF to be running on the mainframe agent and will require the extra DD cards ISFIN and ISFOUT to be uncommented in the VP390 startup JCL

Note: Codes 110, 111, 112, 113, and 114 require a temporary dataset to hold the TSO output. The dataset should be created with parameters `DCB=(DSORG=PS,RECFM=FB,LRECL=1028,BLKSIZE=6144),SPACE=(TRK,(1,1,0))`. This dataset can be defined in three ways and will be searched in the following order:

1. The dataset name is defined in the SYSIN parameter cards on a card labeled “TSOUTPUT”. The dataset must exist and be cataloged before the VP390 job is started.
2. The dataset is defined in the VP390 startup JCL with a DDname of “TSOUTPUT”.
3. A dataset named “EV390.TSOUTPUT” will be created when a 110-114 command is called and will persist after the VP390 job has ended.

TSO options (110-114) require that the “NETSTAT” command is not in the list of TSO authorized commands. (Verify that “NETSTAT” is not listed in the AUTHCMD section of the IKJTSoxx member of PARMLIB.)

The available OSINFO codes are:

01 DASD Utilization Statistics

Description	Collects DASD volume statistics. The DASD must be online at the time of the request.
--------------------	--------------------------------------------------------------------------------------

Parameters	DASD volume name, or a regular expression to look for multiple volumes, or * for all volumes
Output	One line for each DASD volume found, in the format: <p style="text-align: center;">VolSer Number of tracks Tracks per cylinder Free extents Free tracks Largest free extent Percent used DSCBs</p>
Sample Command	ev390hostcmd 46 01\ O..*.s390.mysite.com
Sample Output	OS390M1 50085 15 8 3374 1230 93 1364 WORK01 50085 15 23 16450 15928 67 3704 EOF

02 RMF Address Space Resource Statistics

Description	Collects statistics from RMF for a specified address space(s). RMF must be running on the system for this option to collect.
Parameters	Address space name, or a prefix of address space with an * to find multiple address spaces with the same starting characters.
Output	One line for each address space found in the format: <p style="text-align: center;">Job Name Device connect time in milliseconds Number of fixed frames located below the 16M real line Number of non-LSQA fixed frames LSQA pages in real storage Total TCB time for this step in milliseconds Total CPU time consumed on behalf of this address space in milliseconds EXCP count for this step</p>
Sample Command	ev390hostcmd 46 02\ VTAM.s390.mysite.com
Sample Output	VTAM 4589 0 29 66 333806 411134 4234 EOF

03 Current CPU Snapshot for System and Specific Address Space

Description	Collects CPU and memory usage for the system and a specific address space by scheduling an SRB to execute in the target address space.
--------------------	----------------------------------------------------------------------------------------------------------------------------------------

Parameters	Address space name.
Output	One line of values in the format: Current total LPAR CPU utilization percentage Percentage of CPU used by specified address space Total CPU time used by address space in seconds Real storage used by address space in kilobytes Extended stage used by address space in kilobytes Region size requested in kilobytes Private storage allocated under the 16M line Private storage allocated above the 16M line Private storage used under the 16M line Private storage used above the 16M line
Sample Command	ev390hostcmd 46 03\ LLA.s390.mysite.com
Sample Output	4.14 0.00 7.53 1776 464 0 940 21424 849 21115 EOF

04 Current Active Jobs

Description	Collects a list of active address spaces.
Parameters	Regular expression filter of address space names to be displayed, or "*" for all
Output	One line for each address space found, in the format: Job name Step name Proc step Job ID Owner Position Performance Group number Priority Current real storage usage (in frames)
Sample Command	ev390hostcmd 46 04\ ^V..*.s390.mysite.com
Sample Output	VLF VLF VLF N/S 0 FE 3679 VTAM VTAM VTAM STC00766 VTAM N/S 0 FE 835 VMCF VMCF IEFPROC N/S 0 FE 35 VP390V55 STEP1 STC01381 IBMUSER N/S 0 FE 1702 VP390 VP390 VP390 STC01104 IBMUSER N/S 0 FE 1262 EOF

05 System statistics from RMF

Description	Collects current system statistics as reported by RMF type 79 subtype 3, subtype 4, and subtype 9 records. RMF must be running to get a valid output.
Parameters	none
Output	<p>One line of output in the format:</p> <p>System CPU utilization percentage System demand paging rate Number of system common (LPA+CSA) pages in Number of swaps (out) Number of pages swapped in Number of pages swapped out Number of private pages swapped in Number of private pages swapped out High UIC count System LPA pages in Number of pages to extended storage Number of extended storage slots available and not in use Number of pages migrated from extended storage to auxiliary storage Number of available frames I/O activity rate: average I/O requests per second I/O response time: average milliseconds needed to complete an I/O request ISOQ time: average milliseconds an I/O request must wait on an IOS queue Number of fixed SQA frames Number of common (LPA+CSA) frames Number of private non-LSQA fixed frames Number of address spaces in storage Number of total LPA frames Number of total CAS frames Number of LPA fixed frames Number of CSA fixed frames Number of fixed LSQA frames Number of address spaces logically swapped out Current time in seconds from the beginning of the 1970 epoch</p>
Sample Command	ev390hostcmd 46 05.s390.mysite.com
Sample Output	<pre>5 0 40672 3762 159116 148700 286378 216962 254 26391 8772189 6352 2058999 328 0 3 0 4491 581 1455 52 3281 2052 68 513 4968 9 1089391325 EOF</pre>

06 JES2 Input Queue

Description	Collects a list of jobs on the JES2 Input Queue. See the note in section “Using OSINFO System Information API Commands”.
Parameters	Job name, or a prefix of a job name with an * to find multiple jobs with the same starting characters.
Output	<p>One line for each job found, in the format:</p> <p>Job name Job ID Owner JES2 input queue priority JES2 input class Position within JES2 input queue class Print designating name Print routing Print node System affinity (if any)</p>

Sample Command	<code>ev390hostcmd 46 06\ *.s390.mysite.com</code>
Sample Output	COPYJOB JOB01817 USER1 9 A LOCAL EOF

07 JES2 Output Queue

Description	Collects a list of jobs on the JES2 Output Queue. See the note in section “Using OSINFO System Information API Commands” for extra SDSF requirements to run this option.
Parameters	Job name, or a prefix of a job name with an * to find multiple jobs with the same starting characters.
Output	One line for each job found, in the format: Job name Job ID Owner JES2 output group priority JES2 output class Output form number Print destination name Output total record count (lines) Output creation due
Sample Command	<code>ev390hostcmd 46 07\ *.s390.mysite.com</code>
Sample Output	SDSF STC00024 START2 144 A STD LOCAL 223 05/13/2004 SMFDUMP JOB00091 USER42 144 A STD LOCAL 50 05/14/2004 SYSLOG STC01405 +MASTER+ 96 L STD LOCAL 20682 06/09/2004 COMPRESS JOB00166 IBMUSER 144 T STD LOCAL 6283 10/19/2004 EOF

08 JES2 Held Queue

Description	Collects a list of jobs on the JES2 Held Queue. See the note in section “Using OSINFO System Information API Commands for extra SDSF requirements to run this option.
Parameters	Job name, or a prefix of a job name with an * to find multiple jobs with the same starting characters.
Output	One line for each job found, in the format:

	Job name Job ID Owner JES2 output group priority JES2 output class JES2 output disposition Print destination name Output total record count (lines) Output creation date
Sample Command	ev390hostcmd 46 08\ T*.s390.mysite.com
Sample Output	TCPIP STC00577 TCPIP 144 K HOLD LOCAL 22 10/19/2004 TSO STC00803 +++++++ 144 K HOLD LOCAL 12 10/19/2004 EOF

10 Dataset Display

Description	Displays the contents of a sequential dataset, dataset member, or HFS file. If a partitioned dataset name is given without a member name, this command will return a list of all members in the dataset. This command cannot display VSAM datasets or datasets with unformatted records.
Parameters	Dataset or file name. For PDS members, specify the member name in parentheses. For HFS files, give the full path to the filename. (If the first character of the name is a forward slash (/), it is assumed that an HFS file is being described.) Remember that the syntax of the <code>ev390hostcmd</code> requires two consecutive periods to denote one period in any parameter. Optionally, specify "maxsize=n" as a second parameter to limit the number of lines of output. The default maxsize is 5000 lines. If the maximum number of lines is exceeded, an EVO140 message will be written to the output.
Output	One line for each line of the file.
Sample Command	<ol style="list-style-type: none"> 1. Display all the lines of the /etc/hosts HFS file: <code>ev390hostcmd 46 10\ /etc/hosts.s390.mysite.com</code> 2. Display all the lines of the VP390 member in the USER.PROCLIB dataset: <code>ev390hostcmd 46 10\ USER..PROCLIB(VP390).s390.mysite.com</code> 3. Display all the members of the USER.PROCLIB partitioned dataset: <code>ev390hostcmd 46 10\ USER..PROCLIB.s390.mysite.com</code> 4. Display all the lines of the THOMAS.DAILY.LOG sequential dataset: <code>ev390hostcmd 46 10\ THOMAS..DAILY..LOG.s390.mysite.com</code> 5. Display only the first 4 lines of the THOMAS.DAILY.LOG sequential dataset: <code>ev390hostcmd 46 10\ THOMAS..DAILY..LOG\ maxsize=4.s390.mysite.com</code>

Sample Output	<pre> Line 1 of log Line 2 of log Line 3 of log Line 4 of log EVO140 Maximum lines of output exceeded (4) EOF </pre>
----------------------	----------------------------------------------------------------------------------------------------------------------

12 Execute REXX Program

Description	Run the named REXX program. The named program must reside in a dataset identified by the SYSEXEC DD in the VP390 startup JCL.
Parameters	The first parameter is the name of the REXX program to run, followed by any parameters that are to be passed to the REXX program. Separate the program name from the program parameters with a vertical bar and separate the program parameters with white space. Up to 50 program parameters may be specified. Optionally, specify "maxsize=n" as the last parameter to limit then number of bytes of output that are returned. The default maxsize is 5000 bytes.
Output	The value of the REXX <code>return</code> statement will be sent as the output. Normally this will be one line, but multiple lines can be created by inserting carriage return (x'0A') characters into the value that is returned.
Sample Command	<p>The following REXX program is saved as "TEST" in a SYSEXEC DD library:</p> <pre> /* REXX program that accepts two whole numbers and returns */ /* two lines of output: the numbers and the sum of the numbers */ parse upper arg parm1 parm2 . if DATATYPE(parm1,'W') \= 1 DATATYPE(parm2,'W') \= 1 then do n = 'Inputs must be whole numbers' return n exit end linefeed = X2C('0A') n = 'Input numbers:' parm1 parm2 linefeed 'sum is:' parm1 + parm2 return n exit </pre> <p>Run the program with the parameters "111" and "222" with a maximum output of 6000 bytes. Note that the X2C('0A') function inserts a line break into the output:</p> <pre> ev390hostcmd 46 12\ TEST\ 111 222\ maxsize=6000.s390.mysite.com </pre>

Sample Output	Input numbers: 111 222 sum is: 333 EOF
----------------------	----------------------------------------------

20 Machine Type and LPAR Capacity

Description	Displays the mainframe machine type and the LPAR capacity of the LPAR where the mainframe agent is running.
Parameters	None
Output	One line in the format: Machine type Machine Model ID Machine Capacity LPAR Name LPAR ID LPAR Capacity The “Machine Capacity” and “LPAR Capacity” values represent the maximum service rates in millions of service units per hour.
Sample Command	ev390hostcmd 46 "20.s390.mysite.com"
Sample Output	2098 D02 11 ZOS2 2 11 EOF

40 Active Jobs and Program Name

Description	Collects a list of active address spaces including the program name of the current step.
Parameters	Regular expression filter of job names to be displayed, or "*" for all.
Output	One line for each address space found, in the format: Job name Step name Proc step Job ID Owner Position Performance Group number Priority Current real storage usage in frames Program Name If Program Name is not available, the field is filled in with “*NA”.
Sample Command	ev390hostcmd 46 "40 A.s390.mysite.com"
Sample Output	*MASTER* STC05258 +MASTER+ N/S 0 FF 295 IEEMB860 PCAUTH PCAUTH N/S 0 FB 40 *NA

RASP	RASP				N/S 0 FF 161 *NA
TRACE	TRACE				N/S 0 FB 41 *NA
IOSAS	IOSAS	IEFPROC			N/S 0 FF 1013 IOSVROUT
LLA	LLA	LLA			N/S 0 FE 865 CSVLLCRE
VTAM	VTAM	VTAM	STC05255	START1	N/S 0 FE 1483 ISTINM01
RACF	RACF	RACF	STC05270	START2	N/S 0 FE 58 IRRSSM00
JES2AUX	JES2AUX				N/S 0 FB 50 *NA
PORTMAP	PORTMAP	PMAP	STC05368	START2	OUT 0 FF 330 PORTMAP
RMFGAT	RMFGAT	IEFPROC	STC05358	START2	N/S 0 FE 9695 ERB3GMFC
EOF					

41 Display IMS Subsystem Name

Description	Displays the IMS subsystem name for the given job.
Parameters	Regular expression filter of job names to be displayed, or "*" for all.
Output	One line for each address space found, in the format: Job name Subsystem name If the given job is not an IMS job (that is, the job is not running program DFSMVR0), the subsystem name field is filled in with "*NA".
Sample Command	ev390hostcmd 46 "41 ^IMS.s390.mysite.com"
Sample Output	IMS10RL1 *NA IMS10CR1 IVP1 IMS10DL1 IVP1 IMS10RC1 IVP1 EOF

42 Display Program Name and PARM Value

Description	Displays the program name and any PARM value from the startup JCL of the named job.
--------------------	-------------------------------------------------------------------------------------

Parameters	Regular expression filter of job names to be displayed.
Output	One line for each address space found, in the format: Job name Program name PARM value
Sample Command	ev390hostcmd 46 "42 ^CICS.s390.mysite.com"
Sample Output	CICSA DFHSIP START=INITIAL, SYSIN EOF

43 Display DDNames of Job

Description	Displays the DD names and associated dataset names for the named job.
Parameters	Regular expression filter of job names to be displayed.
Output	One line for each dataset name found, in the format: Job name DDName Dataset name DD names with several datasets concatenated will be displayed with a separate line for each dataset name. DD names that point to partitioned dataset members will show the member name in parentheses immediately after the dataset name.
Sample Command	ev390hostcmd 46 "43 VTAM.s390.mysite.com"
Sample Output	VTAM VTAMLST USER.VTAMLST VTAM VTAMLST SYS1.VTAMLST VTAM VTAMLIB USER.VTAMLIB VTAM VTAMLIB SYS1.VTAMLIB VTAM SISTCLIB SYS1.SISTCLIB VTAM ACYGDMO SYS1.SISTGDMO (ACYGDMO) VTAM SYSABEND START1.VTAM.STC06385.D0000101.? VTAM TRSDB SYS1.TRSDB EOF

44 Display CICS Group Lists

Description	Executes a WebSphere MQ command and displays the command output.
Parameters	None
Output	One line for each address space found, in the format: <p style="text-align: center;">Job name Group List 1 Gropup List 2 Group List 3 Group List 4</p> Group list names will be padded out to 8 characters.
Sample Command	ev390hostcmd 46 "44 ^CICS.s390.mysite.com"
Sample Output	CICS1 DFHLIST DFHPGADX XYZLIST EOF

50 Execute MQ Series Command

Description	Executes a WebSphere MQ command and displays the command output.
Parameters	MQ Manager name followed by the WebSphere MQ command to be executed. Optionally, specify "maxsize=n" as a third parameter to limit the number of lines of output. The default maxsize is 64000 bytes. If the maximum number of bytes is exceeded, an EVO141 message will be written to the output.
Output	One line for each line of command output.
Sample Command	ev390hostcmd 46 "50 CSQ7 DISPLAY CHANNEL(*) .s390.mysite.com" ev390hostcmd 46 "50 CSQ7 DISPLAY CHANNEL(*) maxsize=70000.s390.mysite.com"
Sample Output	CSQN205I COUNT= 13, RETURN=00000000, REASON=00000000 CSQM410I %CSQ7 CHANNEL(mars.to.venus) CHLTYPE(SDR) QSGDISP(QMGR) CSQM412I %CSQ7 CHANNEL(venus.to.mars) CHLTYPE(RCVR) QSGDISP(QMGR) CSQM417I %CSQ7 CHANNEL(SYSTEM.DEF.CLUSRCVR) CHLTYPE(CLUSRCVR) QSGDISP(QMGR) CSQM418I %CSQ7 CHANNEL(SYSTEM.DEF.CLUSSDR) CHLTYPE(CLUSSDR) QSGDISP(QMGR) CSQM412I %CSQ7 CHANNEL(SYSTEM.DEF.RECEIVER) CHLTYPE(RCVR) QSGDISP(QMGR)

	<pre> CSQM413I %CSQ7 CHANNEL (SYSTEM.DEF.REQUESTER) CHLTYPE (RQSTR) QSGDISP (QMGR) CSQM410I %CSQ7 CHANNEL (SYSTEM.DEF.SENDER) CHLTYPE (SDR) QSGDISP (QMGR) CSQM411I %CSQ7 CHANNEL (SYSTEM.DEF.SERVER) CHLTYPE (SVR) QSGDISP (QMGR) CSQM415I %CSQ7 CHANNEL (SYSTEM.DEF.SVRCONN) CHLTYPE (SVRCONN) QSGDISP (QMGR) CSQM412I %CSQ7 CHANNEL (VENUS.TO.MARS) CHLTYPE (RCVR) QSGDISP (QMGR) CSQ9022I %CSQ7 CSQMDRTS ' DISPLAY CHANNEL' NORMAL COMPLETION EOF </pre>
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60 Display TCP/IP Connections

Description	Displays “netstat” type information from a mainframe TCP/IP stack.									
Parameters	<pre>[stack *][protocol[,protocol]...][stat][,stat]...[verbosity]</pre> <p>where:</p> <table border="1" style="width: 100%;"> <tr> <td style="width: 20%;"><i>stack</i></td> <td>An 8-character TCP/IP jobname, or “*” for first active stack (default=*)</td> </tr> <tr> <td><i>protocol</i></td> <td>TCP UDP ALL Display TCP only, UDP only, or both (default=ALL)</td> </tr> <tr> <td><i>stat</i></td> <td>CONN LISTEN ALL Display connected or listening ports, or both (default=ALL)</td> </tr> <tr> <td><i>verbosity</i></td> <td>SHORT LONG The LONG output requires slightly more processing time to gather the additional information (default=SHORT)</td> </tr> </table>		<i>stack</i>	An 8-character TCP/IP jobname, or “*” for first active stack (default=*)	<i>protocol</i>	TCP UDP ALL Display TCP only, UDP only, or both (default=ALL)	<i>stat</i>	CONN LISTEN ALL Display connected or listening ports, or both (default=ALL)	<i>verbosity</i>	SHORT LONG The LONG output requires slightly more processing time to gather the additional information (default=SHORT)
<i>stack</i>	An 8-character TCP/IP jobname, or “*” for first active stack (default=*)									
<i>protocol</i>	TCP UDP ALL Display TCP only, UDP only, or both (default=ALL)									
<i>stat</i>	CONN LISTEN ALL Display connected or listening ports, or both (default=ALL)									
<i>verbosity</i>	SHORT LONG The LONG output requires slightly more processing time to gather the additional information (default=SHORT)									
Output	<p>One line for each active port, in the format (depending on the verbosity requested):</p> <p>SHORT Output:</p> <pre style="text-align: center;"> Protocol IP Family Local Address Local Port Remote Address Remote Port Bytes Received Bytes Sent State </pre> <p>LONG Output:</p>									

	Protocol IP Family Local Address Local Port Remote Address Remote Port Bytes Received Bytes Sent State Connection Time (seconds) Idle Time (seconds) Owing Jobname
Sample Command	ev390hostcmd 46 "60 TCPIP.s390.mysite.com" ev390hostcmd 46 "60 * ALL ALL LONG.s390.mysite.com"
Sample Output	TCP IPV4 192.168.0.210 6106 192.168.0.174 64940 0 5404 ESTABLISH 203 3 EV390V70 TCP IPV4 192.168.0.210 6107 192.168.0.174 64939 367 15 ESTABLISH 206 0 EV390V70 TCP IPV6 ::ffff:192.168.0.210 23 ::ffff:192.168.1.128 52017 4949 159675 ESTABLISH 11866 160 TN3270 UDP IPV4 192.168.0.222 12000 0.0.0.0 0 0 0 UDP 1370650 1370650 VTAM UDP IPV4 192.168.0.222 12004 0.0.0.0 0 0 0 UDP 1370650 1370650 VTAM TCP IPV6 :: 23 :: 0 0 0 LISTEN 1371721 2091 TN3270 TCP IPV6 :: 21 :: 0 0 0 LISTEN 1371713 736247 FTPD1 UDP IPV4 0.0.0.0 111 0.0.0.0 0 0 0 UDP 1370642 1370642 PORTMAP EOF

61 Display Network Interfaces

Description	Displays list of defined interfaces and devices for a TCP/IP stack.
Availability	Agent running z/OS V1R12 and later.
Parameters	Regular expression filter of job names to be displayed, or "*" for all.
Output	One line for each interface found, in the format: Interface Name Interface Associated Name MAC Address PhysVirt Status Interface Type The PhysVirt value will be either "P" to indicate that the MAC address listed is a Physical MAC address, or "V" to indicate a configured or OSA-generated VMAC address.
Sample Command	ev390hostcmd 46 "61 *.s390.mysite.com"

Sample Output	LOOPBACK	LOOPBACK	00-00-00-00-00-00 P ACTIVE	LOOPBACK	IPV4 127.0.0.1
	LOOPBACK6		00-00-00-00-00-00 P ACTIVE	LOOPBACK	IPV6 ::1 LOOPBACK
	VLINK2	VIPA2	00-00-00-00-00-00 P ACTIVE	STATIC-VIRT	
	IPV4 192.168.0.222 PRIMARY				
	OSDL	ADM1ETP	00-14-5E-B8-81-95 P ACTIVE	ETHERNET-OSD	IPV4 192.168.0.218
	OSDL6	ADM1ETP	00-14-5E-B8-81-95 P ACTIVE	ETHERNET-OSD	
	IPV6 fe80::14:5e00:1b8:8195	AUTOCONFIG LINK_LOCAL			
	OSDL6	ADM1ETP	00-14-5E-B8-81-95 P ACTIVE	ETHERNET-OSD	
	IPV6 fda5:3ad7:3471:5::218	GLOBAL			
	EZASAMEMVS	IUTSAMEH	00-00-00-00-00-00 P ACTIVE	MPC-P2P-SAME	IPV4 192.168.0.212
	EZAXCF2A	Z113SSCP	00-00-00-00-00-00 P ACTIVE	MPC-P2P-XCF	IPV4 192.168.0.212
	VIPLC0A801DB	VIPLC0A801DB	00-00-00-00-00-00 P ACTIVE	DYNAMIC-VIRT	IPV4 192.168.0.219
	EOF				

110 TSO-Generated Netstat Connections

Description	Displays the network configuration and status of a TCP/IP stack via a “netstat” request to TSO. This option requires a temporary dataset to hold the TSO output (see the in the note in the section: “Using OSINFO System Information API Commands”).
Parameters	An 8-character TCP/IP jobname, or “*” for first active stack (default=*) (Optional) “APPLDATA” to show detailed information concerning application data for TCP connections.
Output	TSO-styled “NETSTAT ALLConn” output. Note that the format of the output changed after z/OS V1R10.
Sample Command	<code>ev390hostcmd 46 "110 *.s390.mysite.com"</code> <code>ev390hostcmd 46 "110 * APPLDATA.s390.mysite.com"</code>

Sample Output	<pre> MVS TCP/IP NETSTAT CS V2R1 TCPIP Name: TCPIP 22:03:36 User Id Conn State ----- ---- - BPXOINIT 00000024 Listen Local Socket: 0.0.0.0..10007 Foreign Socket: 0.0.0.0..0 CICSWUIP 00000050 Listen Local Socket: :...12345 Foreign Socket: :...0 Application Data: DFHIWUINCM01CWXNHTTP EYUWUI CICSWUIP 00000052 Listen Local Socket: :...12346 Foreign Socket: :...0 Application Data: DFHIWUINCM01CWXNHTTP EYUCMCIT EV390V70 0004ED53 Establish Local Socket: 192.168.1.210..6107 Foreign Socket: 192.168.1.174..64939 EV390V70 0004ED55 Establish Local Socket: 192.168.1.210..6106 Foreign Socket: 192.168.1.174..64940 FTPD1 00000022 Listen Local Socket: :...21 Foreign Socket: :...0 Application Data: EZAFTPOD EOF </pre>
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111 TSO-Generated Netstat Home Addresses

Description	<p>Displays the IP address and associated links or interface name via a “netstat” request to TSO. This option requires a temporary dataset to hold the TSO output (see the in the note in the section: “Using OSINFO System Information API Commands”).</p>
Parameters	An 8-character TCP/IP jobname, or “*” for first active stack (default=*)
Output	TSO-styled “NETSTAT HOME” output. Note that the format of the output changed after z/OS V1R10.
Sample Command	ev390hostcmd 46 "111 TCPIP.s390.mysite.com"

Sample Output	<pre> MVS TCP/IP NETSTAT CS V2R1 TCPIP Name: TCPIP 15:25:19 Home address list: LinkName: VLINK2 Address: 192.168.1.222 Flags: Primary LinkName: EZASAMEMVS Address: 192.168.1.212 Flags: LinkName: VIPLC0A801DB Address: 192.168.1.219 Flags: LinkName: EZAXCF2A Address: 192.168.1.212 Flags: LinkName: LOOPBACK Address: 127.0.0.1 Flags: IntfName: OSDL Address: 192.168.1.210 Flags: IntfName: OSDL6 Address: fda5:3ad7:3471:5::210 Type: Global Flags: Address: fe80::14:5e00:1b8:8195 Type: Link_Local Flags: Autoconfigured IntfName: LOOPBACK6 Address: ::1 Type: Loopback Flags: EOF </pre>
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112 TSO-Generated Netstat Routing Table

Description	<p>Displays the TCP/IP routing table for the named TCP/IP stack via a “netstat” request to TSO. This option requires a temporary dataset to hold the TSO output (see the in the note in the section: “Using OSINFO System Information API Commands”).</p>
Parameters	<p>An 8-character TCP/IP jobname, or “*” for first active stack (default (Optional) “APPLDATA” to show detailed information concerning application data for TCP connections.</p>
Output	<p>TSO-styled “NETSTAT ARP” output. Note that prior to z/OS V1R12, only IPV4 destinations are displayed. Beginning with z/OS V1R12, both IPV4 and IPV6 destinations are listed.</p>

Sample Command	<pre>ev390hostcmd 46 "112 *.s390.mysite.com" ev390hostcmd 46 "112 * APPLDATA.s390.mysite.com"</pre>
Sample Output	<pre>MVS TCP/IP NETSTAT CS V2R1 TCPIP Name: TCPIP 15:28:34 IPv4 Destinations Destination Gateway Flags Refcnt Interface ----- Default 192.168.1.1 UGS 0000000000 OSDL 127.0.0.1/32 0.0.0.0 UH 0000000000 LOOPBACK 192.168.1.0/24 0.0.0.0 US 0000000007 OSDL 192.168.1.210/32 0.0.0.0 UH 0000000000 OSDL 192.168.1.211/32 0.0.0.0 UHS 0000000000 EZAXCF2A 192.168.1.212/32 0.0.0.0 UH 0000000000 EZASAMEMVS 192.168.1.212/32 0.0.0.0 UH 0000000000 EZAXCF2A 192.168.1.219/32 0.0.0.0 UH 0000000000 VIPLC0A801DB 192.168.1.222/32 0.0.0.0 UH 0000000000 VLINK2 IPv6 Destinations DestIP: Default Gw: fda5:3ad7:3471:5::1 Intf: OSDL6 Refcnt: 0000000000 Flgs: UGS MTU: 1500 DestIP: ::1/128 Gw: :: Intf: LOOPBACK6 Refcnt: 0000000002 Flgs: UH MTU: 65535 DestIP: fda5:3ad7:3471:5::/64 Gw: :: Intf: OSDL6 Refcnt: 0000000000 Flgs: US MTU: 1500 DestIP: fda5:3ad7:3471:5::210/128 Gw: :: Intf: OSDL6 Refcnt: 0000000000 Flgs: UH MTU: 1500 DestIP: fe80::14:5e00:1b8:8195/128 Gw: :: Intf: OSDL6 Refcnt: 0000000000 Flgs: UH MTU: 1500 EOF</pre>

113 TSO-Generated Netstat ARP Cache

Description	<p>Displays the IPV4 ARP cache for the named TCP/IP stack via a “netstat” request to TSO. This option requires a temporary dataset to hold the TSO output (see the in the note in the section: “Using OSINFO System Information API Commands”).</p>
Parameters	An 8-character TCP/IP jobname, or “*” for first active stack (default=*)

	(Optional) Display the ARP cache for a specific network address (in the format nnn.nnn.nnn.nnn) or “ALL”. “ALL” is the default.
Output	TSO-styled “NETSTAT ARP” output
Sample Command	<pre>ev390hostcmd 46 "113 *.s390.mysite.com"</pre> <pre>ev390hostcmd 46 "113 192..168..1..102.s390.mysite.com"</pre> <p>(Remember that period characters must be doubled in the command portion of an ev390hostcmd to differentiate it from the destination agent name.)</p>
Sample Output	<pre>MVS TCP/IP NETSTAT CS V2R1 TCPIP Name: TCPIP 15:37:48 Querying ARP cache for address 192.168.1.52 Interface: OSDL ETHERNET: 00145EB88185 Querying ARP cache for address 192.168.1.53 Interface: OSDL ETHERNET: 00145EB88185 Querying ARP cache for address 192.168.1.54 Interface: OSDL ETHERNET: 00145EB88185 Querying ARP cache for address 192.168.1.55 Interface: OSDL ETHERNET: 00145EB88185 Querying ARP cache for address 192.168.1.1 Interface: OSDL ETHERNET: 00A0CC65D8A2 EOF</pre>

114 TSO-Generated Netstat Device Links

Description	<p>Displays the devices, links, and interfaces defined to a TCP/IP stack via a “netstat” request to TSO. This option requires a temporary dataset to hold the TSO output (see the in the note in the section: “Using OSINFO System Information API Commands”).</p>
Parameters	An 8-character TCP/IP jobname, or “*” for the first active stack (default=*)

Output	TSO-styled "NETSTAT DEVLINKS" output
Sample Command	<code>ev390hostcmd 46 "114 *.s390.mysite.com"</code>

Sample Output

```
MVS TCP/IP NETSTAT CS V2R1          TCPIP Name: TCPIP          15:51:23
DevName: LOOPBACK                    DevType: LOOPBACK
  DevStatus: Ready
  LnkName: LOOPBACK                    LnkType: LOOPBACK    LnkStatus: Ready
  ActMtu: 65535
Routing Parameters:
  MTU Size: n/a                        Metric: 00
  DestAddr: 0.0.0.0                    SubnetMask: 0.0.0.0
Multicast Specific:
  Multicast Capability: No
Link Statistics:
  BytesIn                               = 119485313
  Inbound Packets                       = 1896986
  Inbound Packets In Error               = 0
  Inbound Packets Discarded              = 0
  Inbound Packets With No Protocol       = 0
  BytesOut                               = 119485313
  Outbound Packets                      = 1896986
  Outbound Packets In Error              = 0
  Outbound Packets Discarded             = 0

IntfName: OSDL                        IntfType: IPAQENET   IntfStatus: Ready
  PortName: ADM1ETP                    Datapath: 0402       DatapathStatus: Ready
  CHPIDType: OSD                        SMCR: Disabled (GLOBALCONFIG NOSMCR)
  PNetID: *None*
  Speed: 0000000100
  IpBroadcastCapability: No
  CfgRouter: Non                        ActRouter: Non
  ArpOffload: Yes                       ArpOffloadInfo: Yes
  CfgMtu: None                           ActMtu: 1492
  IpAddr: 192.168.1.210/24
  VLANid: None                           VLANpriority: Disabled
  ReadStorage: GLOBAL (4096K)
  InbPerf: Balanced
  ChecksumOffload: Yes                  SegmentationOffload: No
  SecClass: 255                          MonSysplex: No
  Isolate: No                             OptLatencyMode: No
Multicast Specific:
  Multicast Capability: Yes
  Group          RefCnt          SrcFltMd
  -----
  224.0.0.1      0000000001    Exclude
  SrcAddr: None
Interface Statistics:
  BytesIn                               = 5900185389
  Inbound Packets                       = 13211764
  Inbound Packets In Error               = 15390
  Inbound Packets Discarded              = 0
  Inbound Packets With No Protocol       = 0
  BytesOut                               = 1089099540
  Outbound Packets                      = 10967466
  Outbound Packets In Error              = 0
  Outbound Packets Discarded             = 0

DevName: VIPDCA801DB                  DevType: VIPA
  DevStatus: Ready
  LnkName: VIPLCA801DB                  LnkType: VIPA        LnkStatus: Ready
Routing Parameters:
  MTU Size: n/a                        Metric: 01
  DestAddr: 0.0.0.0                    SubnetMask: 255.255.255.0
Multicast Specific:
  Multicast Capability: No
```


	<pre> IPv4 LAN Group Summary LanGroup: 00002 Name Status ArpOwner VipaOwner ---- - OSDL Active OSDL Yes IPv6 LAN Group Summary LanGroup: 00001 Name Status NDOwner VipaOwner ---- - OSDL6 Active OSDL6 Yes OSA-Express Network Traffic Analyzer Information: No OSA-Express Network Traffic Analyzer interfaces are defined EOF </pre>
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REXX Example	<pre>x = EVORXALO('MYLIB','TEST.JCL') x = EVORXALO('DD1','TEST.LOADLIB1','TEST.LOADLIB2')</pre>
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EVORXCON - Issue Console Command

Description	The EVORXCON command is used to establish an extended console session using MVS console services. This session allows you to enter MVS system commands (or subsystem commands) from the REXX program.												
Syntax	<pre>EVORXCON('cmd','var'[, 'HC'][, 'consname'][, 'NR'][, 'MAXSIZE=max'][, 'RCA'])</pre> <p>where:</p> <table style="width: 100%; border: none;"> <tr> <td style="padding-left: 2em;"><i>command</i></td> <td>An MVS console command</td> </tr> <tr> <td style="padding-left: 2em;"><i>returnmsg</i></td> <td>A 1 to 17 character variable name that will be used as a compound variable containing any response message(s) to the command</td> </tr> <tr> <td style="padding-left: 2em;">'HC'</td> <td>"Hard Copy": An optional third parameter which will cause the MVS command and response to be written to the hardcopy log.</td> </tr> <tr> <td style="padding-left: 2em;"><i>consname</i></td> <td>An optional name to be used when initializing the extended console. The name must be 1-8 uppercase alphanumeric characters. If no name is given or an invalid name is specified, the name is set to the default name of "EVORXCON". If this parameter is to be specified, then the third parameter must also be specified, even if only with a null value (two consecutive commas). See the second example below.</td> </tr> <tr> <td style="padding-left: 2em;">'NR'</td> <td>"No Response": An optional parameter which will cause the EVORXCON to return without waiting for any response message(s) from the command.</td> </tr> <tr> <td style="padding-left: 2em;">'MAXSIZE=max'</td> <td>An optional parameter to define the maximum memory size (in bytes) to be allocated to hold the command's response messages. If not specified, the default memory allocation is 56 Kbytes.</td> </tr> </table>	<i>command</i>	An MVS console command	<i>returnmsg</i>	A 1 to 17 character variable name that will be used as a compound variable containing any response message(s) to the command	'HC'	"Hard Copy": An optional third parameter which will cause the MVS command and response to be written to the hardcopy log.	<i>consname</i>	An optional name to be used when initializing the extended console. The name must be 1-8 uppercase alphanumeric characters. If no name is given or an invalid name is specified, the name is set to the default name of "EVORXCON". If this parameter is to be specified, then the third parameter must also be specified, even if only with a null value (two consecutive commas). See the second example below.	'NR'	"No Response": An optional parameter which will cause the EVORXCON to return without waiting for any response message(s) from the command.	'MAXSIZE=max'	An optional parameter to define the maximum memory size (in bytes) to be allocated to hold the command's response messages. If not specified, the default memory allocation is 56 Kbytes.
<i>command</i>	An MVS console command												
<i>returnmsg</i>	A 1 to 17 character variable name that will be used as a compound variable containing any response message(s) to the command												
'HC'	"Hard Copy": An optional third parameter which will cause the MVS command and response to be written to the hardcopy log.												
<i>consname</i>	An optional name to be used when initializing the extended console. The name must be 1-8 uppercase alphanumeric characters. If no name is given or an invalid name is specified, the name is set to the default name of "EVORXCON". If this parameter is to be specified, then the third parameter must also be specified, even if only with a null value (two consecutive commas). See the second example below.												
'NR'	"No Response": An optional parameter which will cause the EVORXCON to return without waiting for any response message(s) from the command.												
'MAXSIZE=max'	An optional parameter to define the maximum memory size (in bytes) to be allocated to hold the command's response messages. If not specified, the default memory allocation is 56 Kbytes.												

	<p>'RCA'</p> <p>"Route Codes All": An optional parameter which specifies that the messages making up the response can accept all MVS route codes. If not specified, command responses are, by default, expected to have no route codes. (Note that using this option may result in receiving message responses that are not associated with the original command if other messages with route codes are generated at the same time that the command is being processed. This option is primarily intended to be used for receiving responses to a WTOR reply.)</p>
Return Value	<p>A variable can be assigned to the command to hold one of the return text:</p> <p>OK - The command completed</p>
REXX Example	<p>Issue the "D A,L" command to display the names of all active address spaces on the mainframe. The response lines are printed by reading the RMSG compound variable.</p> <pre> /*REXX*/ x = EVORXCON('D A,L','RMSG') if x = 'OK' then do do i = 1 to RMSG.0 say RMSG.i end end end exit </pre> <p>Issue the "D R,U" command to display the devices that require operator intervention. The response lines are printed by reading the RMSG compound variable. Use the console name "REXXCON", and do not display the command/response on the hardcopy log.</p> <pre> /*REXX*/ x = EVORXCON('D R,U','RMSG',,'REXXCON') if x = 'OK' then do do i = 1 to RMSG.0 say RMSG.i end end end exit </pre>

EVORXDIR - Read PDS Directory

Description	Reads the partitioned dataset directory of the pre-allocated <i>ddname</i> provided, and returns the member names in a REXX compound variable. The 0 stem of the variable will contain the total number of members returned.										
Syntax	<pre>EVORXDIR('ddname','variable'[, 'count'[, 'directory'[, 'prefix']])</pre> <p>where:</p> <table border="0"> <tr> <td data-bbox="446 472 552 504"><i>ddname</i></td> <td data-bbox="730 472 1242 546">An existing symbolic DD name (1 to 8 characters)</td> </tr> <tr> <td data-bbox="446 577 576 609"><i>variable</i></td> <td data-bbox="730 577 1307 682">A 1 to 17 character name used to build a compound variable containing the member names in the PDS.</td> </tr> <tr> <td data-bbox="446 724 527 756"><i>count</i></td> <td data-bbox="730 724 1315 829">(Optional) The maximum number of names returned. The default maximum is 1000 names.</td> </tr> <tr> <td data-bbox="446 861 592 892"><i>directory</i></td> <td data-bbox="730 861 1356 1081">(Optional) Either 'YES' or 'NO', indicating whether to return the directory user data, the approximately 60 bytes of user halfwords (e.g., ISPF or link-edit information). When used, the member name will be the first word of the compound variable, followed by the user data.</td> </tr> <tr> <td data-bbox="446 1113 544 1144"><i>prefix</i></td> <td data-bbox="730 1113 1339 1186">(Optional) Filter the output so that only member names with this prefix are returned.</td> </tr> </table>	<i>ddname</i>	An existing symbolic DD name (1 to 8 characters)	<i>variable</i>	A 1 to 17 character name used to build a compound variable containing the member names in the PDS.	<i>count</i>	(Optional) The maximum number of names returned. The default maximum is 1000 names.	<i>directory</i>	(Optional) Either 'YES' or 'NO', indicating whether to return the directory user data, the approximately 60 bytes of user halfwords (e.g., ISPF or link-edit information). When used, the member name will be the first word of the compound variable, followed by the user data.	<i>prefix</i>	(Optional) Filter the output so that only member names with this prefix are returned.
<i>ddname</i>	An existing symbolic DD name (1 to 8 characters)										
<i>variable</i>	A 1 to 17 character name used to build a compound variable containing the member names in the PDS.										
<i>count</i>	(Optional) The maximum number of names returned. The default maximum is 1000 names.										
<i>directory</i>	(Optional) Either 'YES' or 'NO', indicating whether to return the directory user data, the approximately 60 bytes of user halfwords (e.g., ISPF or link-edit information). When used, the member name will be the first word of the compound variable, followed by the user data.										
<i>prefix</i>	(Optional) Filter the output so that only member names with this prefix are returned.										
Return Value	<p>A variable can be assigned to the command to hold one of the following return texts:</p> <table border="0"> <tr> <td data-bbox="446 1323 487 1354">OK</td> <td data-bbox="747 1312 1218 1344">Read of the dataset was successful</td> </tr> <tr> <td data-bbox="446 1396 625 1491">ERROR IN SPECIFYING FUNCTION</td> <td data-bbox="747 1375 1339 1480">An incorrect parameter was passed, either the <i>variable</i> name is too long, or the count exceeds the maximum size allowed</td> </tr> <tr> <td data-bbox="446 1533 673 1596">ERROR OPENING PDS DATASET</td> <td data-bbox="747 1512 1201 1543">The named <i>ddname</i> failed to open.</td> </tr> <tr> <td data-bbox="446 1638 673 1701">ERROR READING PDS DATASET</td> <td data-bbox="747 1617 1282 1648">There was a failure reading the <i>ddname</i></td> </tr> <tr> <td data-bbox="446 1774 706 1837">STORAGE REQUEST FAILED</td> <td data-bbox="747 1753 1339 1858">The function was unable to allocate enough memory to hold the complete list of dataset members.</td> </tr> </table>	OK	Read of the dataset was successful	ERROR IN SPECIFYING FUNCTION	An incorrect parameter was passed, either the <i>variable</i> name is too long, or the count exceeds the maximum size allowed	ERROR OPENING PDS DATASET	The named <i>ddname</i> failed to open.	ERROR READING PDS DATASET	There was a failure reading the <i>ddname</i>	STORAGE REQUEST FAILED	The function was unable to allocate enough memory to hold the complete list of dataset members.
OK	Read of the dataset was successful										
ERROR IN SPECIFYING FUNCTION	An incorrect parameter was passed, either the <i>variable</i> name is too long, or the count exceeds the maximum size allowed										
ERROR OPENING PDS DATASET	The named <i>ddname</i> failed to open.										
ERROR READING PDS DATASET	There was a failure reading the <i>ddname</i>										
STORAGE REQUEST FAILED	The function was unable to allocate enough memory to hold the complete list of dataset members.										

REXX Example	<pre> EVORXDIR('LOADLIB','MEMBER') EVORXDIR('LOADLIB','MEMBER','9999','YES') </pre>
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EVORXFRE - Free Allocated DDs

Description	Dynamically frees a dataset or a DD name and its associated datasets.						
Syntax	<pre> EVORXFRE('key=name') where: </pre> <p><i>key</i> - DDN" if freeing a DD name, or "DSN" if freeing a specific dataset name</p> <p><i>name</i> - An existing symbolic DD name (1 to 8 characters) or a dataset name (up to 44 characters)</p>						
Return Value	<p>A variable can be assigned to the command to hold one of the following return texts:</p> <table> <tr> <td>OK</td> <td>The free was successful</td> </tr> <tr> <td>NO PARAMETER SPECIFIED</td> <td>The function was called without a valid parameter</td> </tr> <tr> <td>INCORRECT PARAMETER SPECIFIED</td> <td>The <i>key</i> must be specified as "DDN" or "DSN"</td> </tr> </table>	OK	The free was successful	NO PARAMETER SPECIFIED	The function was called without a valid parameter	INCORRECT PARAMETER SPECIFIED	The <i>key</i> must be specified as "DDN" or "DSN"
OK	The free was successful						
NO PARAMETER SPECIFIED	The function was called without a valid parameter						
INCORRECT PARAMETER SPECIFIED	The <i>key</i> must be specified as "DDN" or "DSN"						
REXX Example	<pre> x = EVORXFRE('DDN=MYLIB') x = EVORXFRE('DSN=USER.JCL.CNTL') </pre>						

EVORXGET - Read a PDS Member

Description	This function will read a member of a PDS and return the records in the 'variable_name' specified as a compound variable (e.g. PDSRECD.1). The 'ddname' must be pre-allocated prior to invocation of the function. The '0' stem of the 'variable_name' will contain the number of records read. The 'count' field is optional and will default to a maximum of 9,999 records.
Syntax	<pre> EVORXGET('member','ddname','returnmsg'[,linecount]) </pre> <p>where:</p>

	<p><i>member</i> The member name of a partitioned dataset (1 to 8 characters)</p> <p><i>ddname</i> An existing symbolic DD name (1 to 8 characters)</p> <p><i>returnmsg</i> A 1 to 17 character variable name that will be used as a compound variable containing the lines (records) read from the dataset</p> <p><i>linecount</i> The maximum number of records to be read. The default is 9999 records.</p>
Return Value	<p>A variable can be assigned to the command to hold one of the following return texts:</p> <p>OK The read was successful</p> <p>ERROR IN SPECIFYING READ FUNCTION Invalid parameter(s) specified</p> <p>ERROR OPENING PDS DATASET The <i>ddname</i> pointed to a non-partitioned dataset</p> <p>STORAGE REQUEST FAILED Temporary memory allocation failed</p> <p>MEMBER REQUESTED NOT_FOUND <i>member</i> was not found in the <i>ddname</i> dataset</p>
REXX Example	<p>This example opens a dataset member and reads JCL records. The records are written to an allocated internal reader to allow the JCL to be submitted as a job.</p>

	<pre> /*REXX*/ /* Allocate my JCL dataset to the "INPUT" DDname */ if EVORXALO('INPUT','USER.JCL.CNTL') = 'OK' then do /* Allocate the internal reader */ if EVORXINT('JCLOUT') = 'OK' then do /* Read the PDS member and write it to the internal reader */ if EVORXGET('IEFBR14','INPUT','PDSRECD') = 'OK' then do "EXECIO 0 DISKW JCLOUT (OPEN" "EXECIO * DISKW JCLOUT (STEM PDSRECD. FINIS" say 'IEFBR14 submitted' end /* Free the allocated dataset */ x = EVORXFRE('JCLOUT') end x = EVORXFRE('INPUT') end exit </pre>
--	-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

EVORXINT - Allocate an Internal Reader (INTRDR)

Description	This function will allocate an INTRDR to the DD name specified.								
Syntax	<pre>EVORXINT('ddname')</pre> <p>where:</p> <p style="padding-left: 40px;"><i>ddname</i> A symbolic DD name (1 to 8 characters)</p>								
Return Value	<p>A variable can be assigned to the command to hold one of the following return texts:</p> <table style="width: 100%; border: none;"> <tr> <td style="padding-left: 40px;">OK</td> <td>Read of the dataset was successful</td> </tr> <tr> <td style="padding-left: 40px;">ERROR IN SPECIFYING READ FUNCTION</td> <td>An incorrect parameter was passed, either the <i>variable</i> name is too long, or the count exceeds the maximum size allowed</td> </tr> <tr> <td style="padding-left: 40px;">ERROR OPENING PDS DATASET</td> <td>The named <i>ddname</i> failed to open.</td> </tr> <tr> <td style="padding-left: 40px;">ERROR READING PDS DATASET</td> <td>There was a failure reading the <i>ddname</i></td> </tr> </table>	OK	Read of the dataset was successful	ERROR IN SPECIFYING READ FUNCTION	An incorrect parameter was passed, either the <i>variable</i> name is too long, or the count exceeds the maximum size allowed	ERROR OPENING PDS DATASET	The named <i>ddname</i> failed to open.	ERROR READING PDS DATASET	There was a failure reading the <i>ddname</i>
OK	Read of the dataset was successful								
ERROR IN SPECIFYING READ FUNCTION	An incorrect parameter was passed, either the <i>variable</i> name is too long, or the count exceeds the maximum size allowed								
ERROR OPENING PDS DATASET	The named <i>ddname</i> failed to open.								
ERROR READING PDS DATASET	There was a failure reading the <i>ddname</i>								

	<p>STORAGE REQUEST FAILED</p> <p>The function was unable to allocate enough memory to hold the complete list of dataset members.</p>
REXX Example	See the example for EVORXGET below to demonstrate the usage of EVORXINT.

EVORXSYS - Display Users of Highest System Resources

Description	This function will return several lines of output explaining which address spaces are using the most mainframe system resources.
Syntax	<p>EVORXSYS('variable')</p> <p>where:</p> <p><i>variable</i> A 1 to 8-character name for a compound variable that will be built to hold the returned messages. If not specified, the default stem variable "SYS" will be used. The stem ("SYS.0") value will hold the number of lines of output.</p>
Return Value	<p>A variable can be assigned to the command to hold one of these possible return texts:</p> <p>OK The wait has returned successfully</p>
REXX Example	<pre>/*REXX*/ x = EVORXSYS('DATA') if x = 'OK' then do do I = 1 to DATA.0 say DATA.I end end exit</pre>
REXX Example Output	<pre>EVORXSYS(1): -Highest CPU user at .9% is RMFGAT EVORXSYS(2): -Max number of pages fixed below 16MB (000132 frames is BBOS001 EVORXSYS(3): -Largest user of VSTOR (0006698 frames) is GRS EVORXSYS(4): -Highest user of total SRM service is ROYM EVORXSYS(5): -System CPU usage= 6%, Demand page rate=00000 pages/sec</pre>

EVORXWAT - Wait/Sleep

Description	This function will suspend the processing in the REXX program for the specified number of seconds. If no parameter or a non-numeric parameter is specified, the default is five seconds. The maximum wait time is 999 seconds; any input larger than 999 is truncated to 999. While processing a Wait, all other Ironstream REXX automation processing is suspended, which should be taken into consideration when choosing a wait time.
Syntax	EVORXWAT (<i>seconds</i>) where: <i>seconds</i> Number of seconds to wait; whole numbers 0-999
Return Value	A variable can be assigned to the command to hold one of these possible return texts: OK The wait has returned successfully
REXX Example	x = EVORXWAT (30) x = EVORXWAT () /* Wait for five seconds */

EVORXWTO - Issue a Write to Operator (WTO)

Description	This function will issue a WTO with the default route code to the z/OS operator console.
Syntax	EVORXWTO ('message' [, '{ROLL NOROLL}']) where: <i>message</i> The text message to be sent to the console, between 1 and 126 characters. A zero length text message or one that is greater than 126 characters will result in an error response. ROLL NOROLL An optional parameter which, when set to "NOROLL", can set a WTO "critical message" descriptor flag to prevent the message from rolling off the console display. "ROLL" is the default. Use caution when using the NOROLL option, as overuse of this option can cause the master console to fill up and prevent any new messages from being displayed
Return Value	A variable can be assigned to the command to hold one of these possible return texts:

	<p>OK</p> <p>WTO processed successfully</p> <p>ERROR IN SPECIFYING WTO FUNCTION</p> <p>error in the command parameters</p>
REXX Example	<pre>x = EVORXWTO('This WTO message will roll off the console') x = EVORXWTO('This message will not roll off the console','NOROLL')</pre>

Troubleshooting

This chapter describes how to troubleshoot problems with Ironstream.

General Troubleshooting

Before you troubleshoot a particular problem that you run into when installing, configuring, or using Ironstream, you should verify that your Ironstream environment is correctly installed and configured.

Correct installation and configuration of ensures, among other things, that messages are processed correctly:

Ironstream UD Probe Server Components

ev390mcs (Windows)

The Master Configuration Server (or MCS) process – initiates two TCP connections to the agent using the Command port and Message port parameters in the Node configuration. It receives message data and commands or API requests from the agent. Message data can be system messages, performance data, resource status change messages, command responses, or responses to API requests.

There should be one ev390mcs process for each active IBM Z system. When there is no activity on the TCP connections, the ev390mcs process expects to receive a periodic heartbeat message from the agent (by default every 30 seconds, but this can be changed with the "HB" option on the TCP card in the mainframe agent's SYSIN parameter cards). If the heartbeat is not received, the connection is closed, and the connection process is re-initiated.

Different levels of program tracing is available by modifying the "HCI" value in the parm/evodebug.parm file.

Ironstream Mainframe Agent

The Ironstream agent runs as a started task on the IBM Z system. Task startup example follows:

```
S VP390.VP390
```

("VP390" being the started task name defined by the JCL procedure).

If the agent does not initialize after entering this command, then it is likely that not all installation/configuration steps have been completed. For the agent to start correctly, the following configuration file member must exist in the Ironstream parmlib dataset defined as input to the SYSIN DD statement:

```
DDMPARM
```

The DDMPARM member contains initialization statements/parameters for the started task.

Error messages and initialization messages are issued during startup and can be found in the VP390 joblog and the syslog.

After the agent has been started the status of all subtasks can be displayed by issuing the following command:

F VP390,SHOW TASK

```
RESPONSE=ADCD
EV0595 Command entered: SHOW TASK
EV0600 TNUM TASKNAME STATUS RESTARTS/LIMIT SPECIFIC
EV0600 1 TCP-0 UP 0 5 7106,7107 S
EV0600 2 TCP-1 UP 0 5 7116,7117 S
EV0600 3 TCP-2 UP 0 5 7126,7127
EV0600 4 TCP-3 UP 0 5 7136,7137
EV0600 5 OSI UP 0 5 ADCD
EV0600 6 CMD-0 UP 0 5 HPADCD ,02000005
EV0695 VP390 SHOW command processed
```

Check the command output to see that all required subtasks and all optional subtasks for your configuration are active. Also, note the status and compare to the expected status shown in the following list of subtasks.

Subtasks

- The **OSI** subtask will accept various requests from the Ironstream UD Probe server for information concerning the system, including CPU and job queue usage.
 - Optional Task, but required if any vp390hostcmd type 46 commands will be issued.
 - Status should be UP if configured.
- The **TCP** subtask is used to connect the agent to the Master Message Server and the Command Server processes on the Ironstream UCMDB Probe server. Multiple TCP subtasks are allowed.
 - Required Task
 - Status should be UP. A capital "S" appears at the end of the SHOW STATUS line for "TCP" if both port connections are established.
- The **CMD** subtask sets up the extended console used for MVS command inputs to VP390.
 - Optional Task, but required if any commands are going to be sent from the Ironstream UD Probe server back to the mainframe.
 - Status should be UP if configured.

To determine if messages/commands are flowing from or to the individual subtasks issue the following command:

F VP390,SHOW FLOW

```

RESPONSE=ADCD
EV0595 Command entered: SHOW FLOW
EV0605 TNUM TASKNAME INPUTQ OUTPUTQ INFLOW OUTFLOW MC
EV0605 1 TCP-0 0 0 0 3 0
EV0605 2 TCP-1 0 0 0 1 0
EV0605 3 TCP-2 0 0 0 0 0
EV0605 4 TCP-3 0 0 0 0 0
EV0605 5 OSI 0 0 0 0 0
EV0605 6 CMD-0 0 0 0 0 0
EV0695 VP390 SHOW command processed

```

The INFLOW and OUTFLOW columns can be monitored to check if messages are flowing into the agent or out of the agent subtasks. Note that the OUTFLOW number for the TCP subtask(s) will increment each time a heartbeat message is sent.

By observing the Inflow and Outflow values of the subtasks, you can detect if the agent is receiving messages or commands and forwarding the data over to the Ironstream UCMDB Probe server.

The "MC" column indicates how many memory allocations are outstanding for the subtask. It may show a positive number when the subtask is actively processing messages or commands, but should return to "0" when finished.

To further help in debugging a problem with the agent a DEBUG command is available to turn tracing on or off for the individual subtasks.

The command is entered as follows:

```
F VP390,DEBUG taskname level
```

where *level* can be 1 or 2 or 4 or any combination up to 7. For example, a 7 would include the results from 1 plus 2 plus 4.

- Trace level of 1 shows basic message flow in and out of the subtask.
- Trace level of 2 shows values of internal variables within subtask.
- Trace level of 4 includes hexadecimal dumping of control blocks.
- Trace level of 0 turns the trace off.

Note: The output of the trace data goes to the SYSPRINT DD statement. Leaving DEBUG tracing active for long periods of time could fill the output queue, especially when using the value of 7.

Example:

```
F VP390,DEBUG TCP-0 1
```

```

EVO595 Command entered: DEBUG TCP-0 1
EVO217 Debug for TCP-0 changed from 0 to 1

```

Example of data produced by the DEBUG command:

```
11/05 15:02:56 TCP-0 writing 14 bytes of type 25 info to 192.168.1.99
11/05 15:02:56 TCP-0 writing 14 bytes of type 27 info to 192.168.1.99
11/05 15:03:26 TCP-0 writing 14 bytes of type 27 info to 192.168.1.99
11/05 15:03:56 TCP-0 writing 14 bytes of type 27 info to 192.168.1.99
11/05 15:04:16 TCP-0 writing message to 192.168.1.99:
  SGMAIN ROYM 2006/07/19 11:58 F8 0 0 00000000 70 50 MAIN STORAGE GROUP
11/05 15:04:16 TCP-0 writing message to 192.168.1.99:
  VIO ROYM 2006/07/20 08:16 00 1 2000000 F3F3F9F0 0 0 VIO STORAGE GROUP
11/05 15:04:16 TCP-0 writing message to 192.168.1.99:
EOF
11/05 15:04:18 TCP-0 writing message to 192.168.1.99:
  EVWRK1 SGMAIN ROYM 2006/07/19 11:59 56664 00F3F640 2707 1043 930 00 01
11/05 15:04:18 TCP-0 writing message to 192.168.1.99:
  EVWRK2 SGMAIN ROYM 2006/07/19 11:59 56664 00F3F6D0 2707 756 364 00 01
```

Specific Troubleshooting

This section explains how to solve specific problems you may encounter when using Ironstream.

Failure of the Discovery Jobs

Symptom:

Discovery jobs are not able to complete command requests.

Troubleshooting Steps:

Use the Ironstream Configuration Tool to verify that the Message and Command processes are running for each IBM Z system.

Actions:

Restart the processes using the **Stop** and **Start** buttons on the Ironstream Configuration Tool.

TCP/IP connection problems

For proper operation, the client component must be able to connect to the IBM Z agent on both the message port and command port. After verifying that all required client component processes are running and all required agent subtasks are running on the IBM Z system, perform the following steps to verify TCP/IP communication between the server component and agent.

1. Check the status of the message port (default 6106) and command port (default 6107) on the Discovery Probe client using the command:

```
netstat -a|grep 6106
netstat -a|grep 6107
```

If you have changed the default ports, then use the port numbers that are configured. If there is a connection from the Ironstream UD Probe server component, then the ports will show a state of “Established”.

2. Check the TCP port status on the IBM Z agent with the following TSO NETSTAT command:

NETSTAT CONN (PORT 6106 6107)

If communication is working properly, then the state should have “Establish”. Below is an example of a NETSTAT CONN output from a normal state:

```
EZZ2587I VP390 0017D2FA 192.168.1.117..6106 192.168.1.174..41245 Establish
EZZ2587I VP390 0017D2FC 192.168.1.117..6107 192.168.1.174..41248 Establish
```

3. Check the ev390mcs log on the Discovery Probe for an indication of a problem. Look for connection messages in the log.
 - In the connection message if you see a connection failure message with a result of “Connection Refused”, then the TCP stack on the Ironstream UD Probe server is getting a result back that indicates the mainframe port is not in a “Listen” state.
 - If the mainframe ports are in “Listen” state and are still seeing a “Connection Refused”, then check to see if there is a firewall in place between the Ironstream UD Probe server and the IBM Z system, and if so make sure it has rules to allow bi-directional communication between the Discovery Probe and IBM Z system.
 - If you are seeing a connection failure with the result of “Connection timed out”, this indicates a network routing error between the Ironstream UD Probe server and the IBM Z system.
4. If you see that the server component makes a successful connection, but the connection is closed 30 seconds later and then reconnects immediately, this indicates a port conflict. In this case, change the default ports of 6106 and 6107 to a different range, for example, 6116 and 6117.

Please note the change must be made on:

- Ironstream UD Probe server in the EVOMF_HCI_AGENT_PORT and EVOMF_CMDS_AGENT_PORT parameters.
- The "TCP" parameter card in the mainframe SYSIN parameters).

You will need to restart both the client component processes and agent for the change to take effect.

Appendix A: z/OS Console Commands

This appendix explains Ironstream z/OS console commands that enable operators to display and change maintenance information about the present mainframe job. Commands are sent from a z/OS console to the Ironstream job using the `MODIFY` command.

If the Ironstream job name is `VP390`, the syntax for a console command is:

```
MODIFY VP390 , command
```

This appendix explains the following types of z/OS commands:

- `SHOW` commands
- Subtask control commands
- `FILTER` commands
- `SUPPRESS` commands
- `PERF` commands

SHOW Commands

`SHOW` commands display the requested information in a formatted table.

SHOW TASK

Displays each of the defined subtask, their status, number of times the subtask was restarted, maximum number of automatic restart attempts for the subtask, and any unique information for the subtask.

Subtask Status

UP	Subtask is active and can accept messages.
DOWN	Subtask is down and is not restarting.
DOWNR	Subtask is down but is restarted after a delay.
INIT	Subtask is initializing.
QUIES	Subtask is in a quiescent state, cleaning up outstanding allocated memory before going into the <code>DOWN</code> or <code>DOWNR</code> state.

Example

```
MODIFY VP390 ,SHOW TASK
```

```
EVO595 Command entered: SHOW TASK
EVO600 TNUM TASKNAME STATUS RESTARTS/LIMIT SPECIFIC
EVO600 6 TCP-0 UP 0 100 6106,6107 S
EVO600 7 OSI UP 1 100 BLUEBOX
EVO600 9 CMD-0 UP 0 5 EVOCONSL,01000002
EVO695 VP390 SHOW command processed
```

SHOW ADDR

Displays the memory address of each defined subtask internal header control block, subtask control block, z/OS Task Control Block, and CPU usage in milliseconds for each subtask. This information is useful if you anticipate making an address space dump.

Parameters

None

Example

MODIFY VP390,SHOW ADDR

```
EVO595 Command entered: SHOW ADDR
EVO603 TNUM TASKNAME ADDRESS HEADER TCB CPU USE
EVO603 0 MAINTASK 00000000 05A350C8 00000000 52.3643
EVO603 1 TCP-0 05A1C014 05A7B808 008CDE88 10.6746
EVO603 2 OSI 05A1C068 05A837C8 008C5C58 3.9319
EVO603 3 CMD-0 05A1C0BC 05A8B788 008BDA28 8.2409
EVO695 VP390 SHOW command processed
```

SHOW VERSION

Displays the version of Ironstream running and the compile date of each subtask.

Parameters

None

Example

MODIFY VP390,SHOW VERSION

```
EVO595 Command entered: SHOW VERSION
EVO607 EView/390z V7.3 Copyright 2020 EView Technology, Inc.
EVO608 TASKNAME DATE TIME
EVO608 MAINTASK Feb 15 2010 06:20:00
EVO608 TCP-0 Feb 15 2010 06:20:00
EVO608 OSI Feb 15 2010 06:20:00
EVO608 CMD-0 Feb 15 2010 06:20:00
EVO695 VP390 SHOW command processed
```

SHOW FLOW

Displays the number of messages for each subtask on the input and output queues, the total number of messages that flowed in and out of the subtask, and the number of memory allocations currently outstanding.

Parameters

None

Example

MODIFY VP390,SHOW FLOW

```

EVO595  Command entered: SHOW FLOW
EVO605  TNUM TASKNAME  INPUTQ  OUTPUTQ  INFLOW  OUTFLOW  MC
EVO605   5  TCP-0      0        0      11     249     0
EVO605   6  TCP-1      0        0       0       0       0
EVO605   8  CMD-0      0        0       0       0       0
EVO695  VP/390 SHOW command processed

```

SHOW SUPPRESS

Displays a list of VP390 message Ids that were suppressed from printing using the SUPPRESS SYSIN command or the SUPPRESS Modify command.

Parameters

None

Example

MODIFY VP390,SHOW SUPPRESS

```

EVO595  Command Entered: SHOW SUPPRESS
EVO615  Suppressed message IDs:
EVO615  002, 902, 905

```

Subtask Control Commands

Subtask control commands allow you to manually control the status of a subtask. Ironstream subtasks start automatically when the job is started, and the subtasks restart automatically if brought down by some anomaly.

Note: For more information on automatic subtask restarts, see the description of the DELAY and RESTART input parameter cards in the *Ironstream for Micro Focus Universal Discovery for IBM Z Installation Guide*.

INIT

Activates a defined subtask that is in a DOWN state. This command can also be used when a subtask is in the DOWNR state to skip the rest of the timed delay and force the re-initialization to continue immediately. The INIT command can only activate tasks that are listed in the SHOW TASK table.

Parameters

subtaskname

Example

MODIFY VP390,INIT TCP-0

```

EVO595  Command entered: INIT TCP-0
EVO002  TCP subtask initialized for 6106,6107

```

KILL

Forces the termination of a defined subtask. When a subtask is terminated with this command, it does not attempt any automatic restarts. The command resets the count of number of automatic restarts that are attempted. The command can also be used to stop a subtask in the DOWNR state from attempting any more restarts.

Parameters

Subtaskname

Example

MODIFY VP390,KILL SPO-1

```
EVO595  Command entered: KILL SPO-1
EVO902  SPO-1 subtask terminated, RC = 0
```

TERM

Stops all subtask and then stops the main task, terminating the VP390 job. This command is equivalent to the z/OS `STOP` command.

Parameters

None

Example

MODIFY VP390,TERM

```
EVO595  Command entered: TERM
EVO690  VP390 STOP Command accepted
EVO901  Stopping subtask #1: TCP-0
EVO901  Stopping subtask #2: OSI
EVO901  Stopping subtask #3: CMD-0
EVO695  VP390 STOP command processed
EVO902  OSI subtask terminated, RC = 0
EVO902  CMD-0 subtask terminated, RC = 0
EVO902  TCP-0 subtask terminated, RC = 0
EVO904  All VP390 subtasks complete
IEF404I  VP390 - ENDED - TIME=17.30.08
$HASP395  VP390 ENDED
```

FILTER Commands

The `FILTER` commands listed below make use of the Ironstream agent feature that restricts incoming z/OS commands from the server.

SHOW FILTER

Displays all commands in the command filter table. If the table has any entries, then incoming commands are checked against the table's regular expressions, and only those commands that have a match in the table will be executed. If the command table has no entries, then all commands are executed.

Parameters

None

Example

MODIFY VP390,SHOW FILTER

```
EVO595  Command entered: SHOW FILTER
```

```
EVO612 No message filters defined
EVO612 No alert filters defined
EVO609 Command filters:
EVO609 -D IPLINFO$
EVO609 -D NET,MAJNODES$
EVO609 -V NET,ACT,ID=*.
EVO695 VP390 SHOW command processed
```

FILTER ADD

Adds a command to the command filter table. By default, the command table holds up to 200 command expressions. Command expressions are in the format of Unix-style regular expressions. (Note that some terminal emulators may not be able to enter certain regular expression characters, such as the caret or square brackets. In these cases, add the filter entry as a **FILTER** card in Ironstream's **SYSIN** parameters, and restart the Ironstream job.)

Syntax

```
FILTER ADD CMD regularexpression
```

Example

* Permit the console to issue a Display Time command:

```
MODIFY VP390,FILTER ADD CMD D T$
```

```
EVO595 Command entered: FILTER ADD CMD D T$
```

```
EVO610 Command filter D T$ added
```

FILTER DEL

Deletes a command from the command filter table. Specifying **ALL** deletes all filters from the command table.

Syntax

```
FILTER DEL CMD regularexpression
```

```
FILTER DEL ALL
```

Examples

```
MODIFY VP390,FILTER DEL CMD D T$
```

```
EVO595 Command entered: FILTER DEL CMD D T$
```

```
EVO610 Command filter deleted
```

```
MODIFY VP390,FILTER DEL ALL
```

```
EVO595 Command entered: FILTER DEL ALL
```

```
EVO613 All message and alert and command filters deleted
```

Appendix B: VP390 Mainframe Messages

This appendix describes all messages generated by the Ironstream job running on the mainframe. The default name for the mainframe task is “VP390”.

EVO002 type subtask initialized for feature

Message Variables

type Type of subtask

feature A specific attribute that this subtask is initialized for:

Subtask	Attribute Description
CMD	Extended MCS console name
NOMATCH	Dataset name to be written to
MVS	Extended MCS console name
OSI	z/OS system name
OPC	Initialized TCP/IP Port number
PERF	z/OS system name
PPI	"PPI"
PPO	VTAM resource contacted
RMA	DD name of REXX programs' dataset
SEC	Defined security application name
SPO	VTAM resource contacted
TCP	Initialized TCP/IP port numbers

Message Description

The VP390 subtask is successfully initialized. This message will be issued for each of the defined subtasks of the VP390 main task.

System Action

Processing continues.

User Action

None.

EVO007 Invalid size of parameter 'parm' on line number

Message Variables

parm Character string in SYSIN line
number Line number of SYSIN

Message Description

A parameter or option for a SYSIN line was found to be of an invalid length.

System Action

The invalid card is skipped. Processing continues with the next SYSIN card.

User Action

Correct the input card on the given line number of SYSIN. Valid values for SYSIN cards are listed in the *Ironstream for Micro Focus Universal Discovery for IBM Z Installation Guide*. If a system symbol was used in the line, verify that the combination of the symbol's length and any other character concatenations do not result in an invalid size for the parameter.

EVO008 Invalid input parameter card on line number

Message Variables

number Line number of SYSIN

Message Description

The VP390 job read a line from SYSIN that it did not understand.

System Action

The invalid card is skipped. Processing continues with the next SYSIN card.

User Action

Correct the input card on the given line number of SYSIN. Valid syntax for SYSIN cards are listed in the *Ironstream for Micro Focus Universal Discovery for IBM Z Installation Guide*. All other lines must begin with an asterisk (*) to denote a comment line.

EVO009 Duplicate subtask card on line number ignored

Message Variables

subtask Type of subtask
number Line number of SYSIN

Message Description

The VP390 job read a definition card from SYSIN for a subtask that has already been defined.

System Action

The invalid card is skipped. Processing continues with the next SYSIN card.

User Action

Correct or remove the input card on the given line number of SYSIN. For names of input parameter cards that may be defined multiple times, see the *Ironstream for Micro Focus Universal Discovery for IBM Z Installation Guide*.

EVO010 Maximum number of subtask cards reached; ignoring line number

Message Variables

subtask Type of subtask, or subtask
number Line number of SYSIN

Message Description

The VP390 job has reached the maximum number of subtasks of the type named. The definition card on the named line is not processed. If *subtask* is "subtask", VP390 has reached the maximum number of total subtasks that can be defined, and all SYSIN parameter cards from the current line number forward are ignored.

System Action

The parameter cards are skipped and processing continues.

User Action

Decrease the number of SYSIN parameter cards of the type named.

EVO011 Maximum number of type filter entries reached; new entry ignored

Message Variables

type Type of filter entry

Message Description

The VP390 job has reached the maximum number of filter entries allowed. By default, VP390 will accept up to 2000 message ID entries and 200 command filter entries.

System Action

The new filter entry is discarded and processing continues.

User Action

Decrease the number of filter entries, possibly by combining multiple entries using wildcard characters, or use the FILTERTABLE parameter card to increase the size of the filter table.

EVO012 Unable to allocate name filter table

Message Variables

name "message" or "alert"

Message Description

A memory allocation failure has occurred while either (1) attempting to allocate the filter table, or (2) attempting to add attributes (jobname, jobid) to an existing filter table entry.

System Action

The new filter entry is discarded and processing continues.

User Action

Allocate more memory for the VP390 job in the startup JCL. If this message appears during startup, use the FILTERTABLE parameter card to decrease the initial allocation size of the message filter table.

EVO018 VTAM ACB generation for subtask acb failed, RC = rcnumber

Message Variables

subtask Type of subtask
acb Name of failing ACB
rcnumber Return code from the Get VTAM ACB routine

Message Description

An attempt by an initializing subtask to get a VTAM ACB failed.

System Action

The VP390 subtask terminates with a condition code 8.

User Action

Verify that the ACB is available. Use the INIT command to restart the subtask.

EVO019 VTAM subtask open for acb failed, RC = rcnumber, error = enumber

Message Variables

subtask Type of subtask
acb Name of failing ACB
rcnumber Return code from the Open VTAM ACB routine
enumber Error code within ACB

Message Description

An attempt by an initializing subtask to open a VTAM ACB failed.

System Action

The VP390 subtask terminates with a condition code 8.

User Action

Verify that the ACB name *acb* is correctly defined. If *rcnumber* = 8, then the subtask may be restarted using the INIT command. If *rcnumber* = 12, then there is a serious VTAM error which will not allow a re-issue of the ACB Open command; check the status of VTAM and recycle the VP390 job. If *enumber* = 88, then resource *acb* is already in use by another program. (Remember that the PPO subtask should not be used if NetView is running.) If *enumber* = 36, verify that *acb* does not have a password requirement or other RACF restriction. If *enumber* = 90, verify that the VTAMLST APPL entry for *acb* is coded correctly and the APPL is active. For descriptions of other error codes, see the section for the OPEN macroinstruction in the IBM manual VTAM Programming.

EVO020 subtask is currently in use

Message Variables

subtask Type of subtask

Message Description

This message follows immediately after the EVO019 message if an exclusive subtask ACB is already in use by another program.

System Action

The VP390 subtask terminates with a condition code 8.

User Action

Verify that the ACB is not taken by another program on the mainframe, such as NetView/390 or SOLVE:NETMASTER.

EVO021 Unsolicited msgtype data is unavailable

Message Variables

msgtype Type of message

Message Description

This message follows the EVO019 message to alert you that the VP390 job is not able to receive unsolicited data because it was unable to access an ACB.

System Action

The VP390 subtask terminates with a condition code 8.

User Action

Correct the problem identified by the EVO019 message, then restart the subtask.

EVO026 Unexpected subtask return code, RC = rcnumber

Message Variables

subtask Type of subtask

rcnumber Return code from Receive routine

Message Description

The subtask Receive routine received an unexpected return code while attempting to receive messages.

System Action

The VP390 subtask terminates with a condition code 9.

User Action

Check the mainframe job output log for additional messages. Use the INIT command to restart the subtask.

EVO033 VP390 COMMAND = command

Message Variables

command Command text

Message Description

The command issued through the VP390 job is logged to SYSLOG.

System Action

Processing continues.

User Action

None.

*EVO034 Initialization of SPO name failed in reqtype processing, RC1 =
addr RC2 = size*

Message Variables

name Name of the SPO subtask
reqtype Type of request being processed
addr Returned address from Get RPL routine
size Returned size from Get RPL routine

Message Description

The SPO subtask failed calling the VTAM RPL routine.

System Action

The VP390 SPO subtask terminates with a condition code 13.

User Action

Use the INIT command to recover subtask.

*EVO035 SPO Warning: Failure retrieving command responses, max
retries reached.*

Message Variables

None.

Message Description

The VP390 Secondary Program Operator interface subtask encountered a failure while attempting to retrieve the command responses from an issued VTAM command. Not all responses were retrieved.

System Action

Processing continues.

User Action

Re-issue the VTAM command. If the proper responses are still not returned, contact Precisely support.

EVO036 SPO command queue depth exceeded maximum

Message Variables

None.

Message Description

A VTAM SPO command could not be placed on the VP390 queue of waiting SPO commands because that queue has reached its maximum size.

System Action

The command is discarded.

User Action

Re-issue the VTAM command. If this message appears frequently, consider defining additional SPO subtasks to handle the load (the VP390 job allows up to ten SPO subtasks to be defined in the SYSIN cards).

EVO038 subtask command support unavailable

Message Variables

subtask name of unavailable subtask

Message Description

The mainframe task is not able to process a command because the necessary subtask is not running.

System Action

The command is discarded.

User Action

Use the SHOW TASK console command (see Appendix A) to check the status of the VP390 subtasks. If *subtask* is in the list of subtasks but does not have an "UP" status, use the INIT command to restart the subtask. If *subtask* is not in the list of subtasks, then add it to the SYSIN deck and restart the VP390 job.

EVO039 Unable to route message (type=type)

Message Variables

type Invalid message type

Message Description

The VP390 job was unable to route an incoming message to any of its subtasks because the message type was unrecognized.

System Action

The invalid message is dumped to SYSPRINT immediately after this message.

User Action

Capture the job's SYSPRINT information and contact Precisely support.

EVO040 Authorization lock timeout for subtask

Message Variables

subtask Ironstream subtask

Message Description

The VP390 job was unable to secure a semaphore lock in 20 seconds before issuing an APF-authorized command. The lock is requested to ensure that an S047 abend is avoided.

System Action

The system command is executed, but an S047 abend may be generated if the job is not reset to allow APF authorized commands

User Action

Check if any outstanding commands from the UD Probe server to the agent are unresolved to determine which command did not release the lock.

EVO091 PPI initialization failed, step = stepnum RC = rcnumber

Message Variables

stepnum Initialization step that failed:
1 SSI not running
2 Attempt to get ASCB value failed
3 Attempt to register receiver failed
rcnumber Return code from call to CNMNETV

Message Description

An attempt by the PPI subtask to access the CNMNETV module failed.

System Action

The PPI subtask terminates with a condition code 6.

User Action

If *stepnum* = 1, check the status of the SSI address space. If *stepnum* = 2, use the NetView DISPLAY PPI modify command to verify that the NetView program-to-program interface is active. If *stepnum* = 3, verify that no other application is attached to the NetView/390 or NETMASTER PPI.

EVO095 VP390 PPI buffer size error, RC = rcnumber

Message Variables

rcnumber Return code from PPI call

Message Description

A Receive request for the PPI failed because the allocated buffer size was not large enough to hold the incoming data.

System Action

The VP390 PPI subtask terminates with a condition code 31.

User Action

Use the `INIT` command to restart the subtask.

EVO096 VP390 PPI interface failed, ID = requestid, RC = rcnumber

Message Variables

`requestid` ID of task request
`rcnumber` Return code from PPI call

Message Description

A Receive request for the PPI failed.

System Action

The VP390 PPI subtask terminates with a condition code 11.

User Action

For explanations of return codes, see the *TME 10 NetView for OS/390 Application Programmer's Guide*. If `requestid = 22` and `rcnumber = 25`, then add "BUFLLEN=40" to the PPI card in SYSIN.

EVO119 count messages queued on subtask. Command rejected: cmd

Message Variables

`count` Number of messages
`subtask` Subtask name
`cmd` Command entered

Message Description

Subtask `subtask` does not process the command issued from the workstation because there is a backlog of `count` messages waiting to be sent to the workstation.

System Action

The command `cmd` is discarded. Processing continues on the remaining messages in the subtask queue.

User Action

Wait until the existing backlog of messages is processed, then re-issue the command. Use the mainframe VP390 modify command `SHOW TASK` to view the number of messages in the Output Queue of the subtask.

EVO121 MVS console name could not obtain a migration ID

Message Variables

`name` Name of console to be defined

Message Description

The MVS console being defined requested a one-byte migration ID, but the console initialization routine was unable to provide one.

System Action

Initialization of the console continues.

User Action

None.

EVO122 type console name initialization failed, RC = rc,reas

Message Variables

<i>type</i>	Subtask type ("MVS" or "CMD")
<i>name</i>	Name of console to be defined
<i>rc</i>	Return code from initialization routine, in hexadecimal
<i>reas</i>	Reason code from initialization routine, in hexadecimal

Message Description

The initialization of the console failed.

System Action

The VP390 subtask terminates with a condition code 8.

User Action

Verify that all the parameters on the *type* SYSIN card conform to the syntax rules. If *rc*=4, then a console name is already running. If you are running multiple Ironstream agents on mainframes or LPARs in a sysplex, then one mainframe image may be able to see another's consoles. Use a unique name for each agent's MVS and CMD card in its SYSIN deck. If *rc* =10, verify that *name* conforms to the rules for console names. If *rc* =C, the VP390 task does not have the necessary READ access to the OPERCMDS resource name MVS.MCSOPER.*name*. Enter the RACF command to allow this READ access for the user ID under which the VP390 job is running.

EVO126 Unable to open MSGCATLG message file

Message Variables

None.

Message Description

The VP390 main task could not find or open the messages file, which is identified by the MSGCATLG DD card in the VP390 startup JCL.

System Action

The VP390 task terminates.

User Action

Verify that the MSGCATLG DD card is defined in the VP390 started task JCL and points to a readable message file. Restart the VP390 job.

EVO127 Too many messages in MSGCATLG message file

Message Variables

None.

Message Description

The VP390 messages file, identified by the MSGCATLG DD card in the VP390 startup JCL, contained more lines than expected for a valid messages file.

System Action

The VP390 task terminates.

User Action

Verify that the MSGCATLG file does not contain extra non-blank lines which could be misinterpreted for message lines. Comment lines beginning with an asterisk and blank lines in the file are ignored. Restart the VP390 job.

*EVO128 Unable to find message ID msg in MSGCATLG file***Message Variables**

msg Message ID to be written

Message Description

VP390 attempted to issue a message with the message ID *msg* but could not find this message ID in the MSGCATLG file.

System Action

Processing continues.

User Action

Verify that the file identified by the MSGCATLG DD in the VP390 startup JCL contains message text for the ID *msg*. In the MSGCATLG file, message IDs must start in the first column of each line. Restart the VP390 job to re-read the messages file.

*EVO130 Unrecognized command option: code***Message Variables**

code Option number

Message Description

The `ev390hostcmd` utility on the OVOW server sent a type 46 command with an option code that the mainframe OSINFO subtask did not recognize.

System Action

Processing continues.

User Action

Consult the earlier section for valid options for OSINFO system information and correct syntax of the `ev390hostcmd` utility.

*EVO131 Query failed, error code = code***Message Variables**

code Error code

Message Description

The `ev390hostcmd` utility on the OVOW server sent a type 46 command requesting information that could not be supplied by the OSINFO subtask on the mainframe.

System Action

Processing continues.

User Action

The code can have different meanings depending on the type 46 option that was requested. Identify what command request is being issued and contact Precisely support.

*EVO132 Query returned no lines***Message Variables**

None.

Message Description

The `ev390hostcmd` utility on the OVOW server sent a type 46 command that returned no output. This can be caused by improper syntax on the 46 command, or by specifying a non-existent task name or DASD volume.

System Action

Processing continues.

User Action

Check the syntax and parameters of the `ev390hostcmd` which was sent to the mainframe.

*EVO133 Unable to collect queue queue data: error accessing source,
rc=code***Message Variables**

<i>queue</i>	Queue name to gather information from: "INPUT", "OUTPUT", or "HELD"
<i>source</i>	Resource that could not be accessed: "ISFIN", "ISFOUT", or "SDSF"
<i>code</i>	Return code

Message Description

The `ev390hostcmd` utility on the OVOW server sent a type 46 command requesting information from one of the JES2 queues that could not be supplied.

System Action

Processing continues.

User Action

If *source* is "ISFIN" or "ISFOUT", verify that the ISFIN and ISFOUT DD cards are correctly defined in the VP390 startup JCL. The code can have different meanings depending on the type 46 option that was requested. Identify what command request is being issued, and contact Precisely support.

EVO134 Error in function call for value: code

Message Variables

function Name of program function where error occurred
value The user-requested parameter that was being queried
code Return code from the *function*

Message Description

The `ev390hostcmd` utility sent a type 46 command requesting information that could not be supplied, usually due non-availability of certain information from certain resources.

System Action

Processing continues.

User Action

Verify that the *value* is valid for the requested output. For example, the type 42 option (program name and PARM value) will not succeed if the "CONSOLE" address space is used for the *value*. The *code* can have different meanings depending on the type 46 option that was requested. Identify what command request is being issued and contact Precisely support.

EVO135 Dataset read error: text

Message Variables

text Error description

Message Description

An error occurred while attempting to read a file or dataset for the `ev390hostcmd` 46 type 10 command. (See “

10 Dataset Display”). If *text* is "Unexpected file read error", then the error occurred when attempting to read an HFS file. If *text* is "Unexpected dataset read error", then the error occurred when attempting to read a sequential or partitioned dataset.

System Action

The file is closed and the command is canceled.

User Action

Verify that the named file or dataset exists and the appropriate authority exists to read it.

EVO137 Rexx command error: error

Message Variables

error Error code or IRX error number

Message Description

An error occurred while attempting to execute a REXX program using the `ev390hostcmd` 46 type 12 command. (See “12 Execute REXX Program”.) The values of *error* are:

Error Value	Description
-------------	-------------

could not initialize REXX	Ironstream could not initialize the REXX interface module IRXEXEC. Verify that this module is available in the mainframe LPALIST.
invalid script member name	The member name of the REXX program is has a length of 0 or is greater than 8. Verify the program name given in the first parameter of the type 12 option.
20	The member name of the REXX program was not found in the SYSEXEC library. Verify that the name is spelled correctly and the SYSEXEC DD is pointing to the desired partitioned dataset.
32	An error occurred in the call to the REXX IRXEXEC interface. Record the syntax of the command being sent and contact Precisely support.
100	A system abend occurred during the execution of the REXX program. Check the mainframe syslog for information.
104	A user abend occurred during the execution of the REXX program. Check the mainframe syslog for information.
IRXxxxxI	A syntax error was detected in the REXX program. This IRX message is the message ID of the detected error. Consult the IBM REXX documentation for the description of this error. Additional information may appear in the mainframe syslog.

System Action

The command is canceled.

User Action

Verify that the program call has correct syntax and parameters. For IRXnnnnI message IDs, see the system console for the full message text, and refer to the IBM "TSO/E Messages" manual for description.

EVO140 Maximum lines of output exceeded (linecount)

Message Variables

linecount Number of lines printed

Message Description

While attempting to read a file or dataset using the `ev390hostcmd 46 type 10` command, the maximum number of output lines was exceeded. (The default maximum is 5000 lines.)

System Action

The dataset/file is closed.

User Action

If more lines of output are desired, use the `"maxsize=n"` option at the end of the `ev390hostcmd` to specify a larger maximum. See "10 .Dataset Display" for syntax.

EVO141 Output size exceeded (bytecount)

Message Variables

bytecount Number of bytes allocated for output

Message Description

While attempting to run an MQ query using the `ev390hostcmd 46 type 50` command, the maximum number of bytes was exceeded. (The default maximum is 64000 bytes.)

System Action

The command output is discarded.

User Action

Use the `"maxsize=n"` option at the end of the `ev390hostcmd` to specify a larger maximum. See "50 Execute MQ Series Command" for syntax.

EVO144 TCP/IP query failed: reason

Message Variables

reason Reason for command failure

Message Description

An error was encountered while attempting to issue an `ev390hostcmd 46` command to gather TCP/IP stack information, either because of the syntax usage of the command or a response from a system API.

System Action

The error message is returned to the calling server process.

User Action

Validate the syntax of the command issued. If the *reason* indicates a system error, check the mainframe syslog and/or the JES output of the Ironstream job for more information.

EVO150 TCP/IP communications: function for workstation component agent failed with errno value

Message Variables

function Failing communication function
component Workstation component that detected the failure
value Integer error value

Message Description

A TCP/IP communications error occurred. The error could have occurred while TCP/IP communication was being established or while a message was sent or received by the mainframe or specified agent.

System Action

The VP390 TCP subtask terminates with a condition code 1.

User Action

Verify the availability of TCP/IP communications between the workstation and the mainframe, and verify the mainframe TCPIP job's high-level qualifier is specified correctly on the TCP card in the VP390 SYSIN deck. Use the INIT command to recover the TCP subtask, or recycle the VP390 job if the SYSIN needs modification.

EVO151 VP390 failure in communication to TCP/IP

Message Variables

None.

Message Description

The VP390 job received an error while attempting to receive data from a TCP/IP socket or ECB.

System Action

The TCP subtask terminates.

User Action

Use the INIT command to recover the subtask.

EVO152 Default TCP/IP function failed

Message Variables

function Failing communication function

Message Description

The setup of a default TCP/IP environment failed while performing *function*.

System Action

Processing continues, but initialization of subsequent TCP subtasks may fail.

User Action

Verify the mainframe TCPIP job's high-level qualifier is specified correctly on the TCP card in the VP390 SYSIN deck. Recycle the VP390 job if the SYSIN needs modification.

EVO153 Message length exceeds send buffer allocation

Message Variables

None.

Message Description

The TCP subtask could not send out a block of data because it was longer than the standard VP390 data buffer could hold.

System Action

The message is discarded.

User Action

Note the system message and alert activity at the time this message was issued, and contact Precisely support.

EVO154 server Server connection lost on port number

Message Variables

server Ironstream server process on the UD Probe server

number Port number

Message Description

The mainframe agent lost its connection to the UCMDB Probe server.

System Action

The port number is reset to allow re-connections. If message buffering is active, mainframe messages will be written to the buffer file until the connection to the UD Probe server is re-established.

User Action

Use the Ironstream Configuration Tool on the UD Probe server to verify the Ironstream processes are running.

EVO155 server Server connection established on port number

Message Variables

server Ironstream server process on the UD Probe server

number Port number

Message Description

The mainframe agent has made a connection to the server process on the UCMDB Probe server.

System Action

Processing continues.

User Action

None.

EVO156 Invalid connection attempt from different servers

Message Variables

None.

Message Description

Two Ironstream UD Probe server components attempted to connect to the agent's TCP/IP ports, with one server taking the Message port and the other taking the Command port. The Ironstream design requires that both ports communicate with server processes on the same Ironstream UCMDB Probe server.

System Action

The TCP subtask terminates both TCP connections and resets. If the server conflict continues for more than the number of restarts allowed for the TCP subtask, then the TCP subtask will shut down completely, requiring a manual restart using the INIT console command, or restarting the mainframe job.

User Action

The mainframe task's SYSPRINT will give a detailed message identifying the source of the two server connection attempts. Terminate the Ironstream processes on one of the servers. If multiple Ironstream clients are desired to connect to the same mainframe agent, then add another TCP subtask card to the SYSIN deck with different port numbers, and refer to that new set of port numbers in the EVOMF_HCI_AGENT_PORT and EVOMF_CMDS_AGENT_PORT fields in the mainframe node configuration file on the Ironstream UD Probe server.

EVO157 Unable to convert segment text due to NLS error

Message Variables

segment Portion of the message that failed

Message Description

A failure occurred either when converting a message from the local codeset to UTF-8 for delivery to the OM server or when converting an incoming command from UTF-8 to the local codeset.

System Action

The message/command is dropped.

User Action

Record the hexadecimal message dump that appears in the SYSPRINT and contact Precisely support.

EVO158 Invalid connection attempt from address:rport to port lport

Message Variables

address Remote IP address

rport Remote port

lport Local port

Message Description

A connection was attempted to a port from an address that was restricted by the SERVERIP option on the TCP subtask definition card.

System Action

The connection is closed and the *lport* returns to a Listen status. If more than five distinct invalid *addresses* are received before a valid connection is made, the TCP subtask is stopped and will require a manual subtask restart command to be entered.

EVO160 Console command return code = rnumber

Message Variables

rnumber Return code from command Send subroutine

Message Description

An MVS command request completed with a non-zero return code.

System Action

Processing continues.

User Action

If expected command response is not received, record the return code and contact Precisely support

EVO161 No match for console command in command filter table

Message Variables

None.

Message Description

A z/OS command issued to the CMD console failed to match any of the entries in the command filter table.

System Action

The command is not executed.

User Action

Add appropriate FILTER CMD entries (either as cards in the SYSIN deck, or dynamically using the “F VP390,FILTER ADD CMD” command) to allow the desired command to be executed.

EVO162 No valid DD names for message logging subtask

Message Variables

None.

Message Description

No valid log file DD names were specified for the NOMATCH subtask.

System Action

The NOMATCH subtask is terminated.

User Action

Add appropriate DD names to the NOMATCH line in SYSIN, and verify that the DD names are defined in the VP390 startup JCL. Recycle the VP390 job.

EVO163 Unable to open message logging file ddname

Message Variables

ddname DD name of the file

Message Description

The NOMATCH subtask was unable to open the logging dataset *ddname* named on the SYSIN card for the NOMATCH initialization.

System Action

The NOMATCH subtask attempts to open the next dataset in the list.

User Action

Verify that the DD name given on the SYSIN card has a matching DD card in the VP390 startup JCL. Verify that the dataset named for that DD name is defined with the DCB values stated in the *Ironstream for Micro Focus Universal Discovery for IBM Z Installation Guide*.

EVO164 Message logging is closing dataset

Message Variables

dataset Log dataset name. If the log is a PDS member, the member name will be appended to the dataset name in parentheses.

Message Description

The NOMATCH subtask is closing the dataset logging dataset, either because of subtask termination or because an attempt to write to the dataset failed (usually because the dataset has been filled.)

System Action

If the dataset closing was due to a write failure, the NOMATCH subtask attempts to open the next dataset in its list of defined DDs.

User Action

None.

EVO165 Message logging is wrapping to the first file

Message Variables

None.

Message Description

The NOMATCH subtask has reached the end of its list of valid logfile DD names.

System Action

The NOMATCH subtask wraps back to re-open the first DD in the list. The existing data in that logfile will be purged and overwritten.

User Action

None.

EVO170 Unable to open message buffering file ddname

Message Variables

ddname DD name of the file

Message Description

The message buffering facility was unable to open the dataset *ddname* for buffering messages while the TCP/IP connection to the OVOW server is down.

System Action

No message buffering will occur while the TCP/IP connection is down.

User Action

Verify that the DD name on the TCP SYSIN card for message buffering has a matching DD card in the VP390 startup JCL. Verify that the dataset named for that DD name is defined with the DCB values stated in the *Ironstream for Micro Focus Universal Discovery for IBM Z Installation Guide*. Recycle the VP390 job if any changes are made to the *SYSIN* cards or the startup JCL.

EVO205 MVS console name reached memory limit. Data lost

Message Variables

name VP390 console name

Message Description

The extended console defined for the VP390 job has filled all available cells in the data space. The incoming message is not queued.

System Action

Processing continues.

User Action

Check the status of the extended console with the `DISPLAY CONSOLES,CN=name` command. If messages do not resume queuing to the extended console, recycle the VP390 job, making sure the console shuts down without any problems. You may need to define a new console with a larger message data space.

EVO206 MVS console name reached queue limit, data lost

Message Variables

name VP390 console name

Message Description

The extended console defined for the VP390 job reached its maximum queue depth.

System Action

The incoming message is not queued. Processing continues.

User Action

Check the status of the extended console with the `DISPLAY CONSOLES,CN=name` command. If messages do not resume queuing to the extended console, recycle the VP390 job, making sure the console shuts down without any problems. Use the `QL` parameter on the MVS `SYSIN` card to increase the queue size of the console. See the definition of the MVS Parameter Card in the *Ironstream for Micro Focus Universal Discovery for IBM Z Installation Guide*.

*EVO207 MVS console name stopped by internal error***Message Variables**

name VP390 console name

Message Description

The extended console defined for the VP390 job received an error while processing its message queues.

System Action

VP390 deactivates the console and stops the MVS subtask.

User Action

Recycle the subtask, then issue a `DISPLAY CONSOLES,CN=name` command to check the status of the name console.

*EVO208 MVS console name reached alert percentage***Message Variables**

name VP390 console name

Message Description

The number of messages queued to the extended console reached a pre-specified alert percentage of the maximum queue depth.

System Action

Processing continues.

User Action

Verify that desired MVS messages are being sent to the Discovery probe client. Check the status of the extended console with the command: `DISPLAY CONSOLES,CN=name` If the queue shortage is not relieved shortly, recycle the VP390 job, making sure the console shuts down without any problems. Use the `QL` parameter on the MVS `SYSIN` card to increase the queue size of the console. See the definition of the MVS parameter card in the *Ironstream for Micro Focus Universal Discovery for IBM Z Installation Guide*.

*EVO209 MVS console name suspended by request***Message Variables**

name VP390 console name

Message Description

A condition developed in the extended console defined for the VP390 job that caused the operating system to request console deactivation.

System Action

VP390 deactivates the console and stops the MVS subtask.

User Action

Recycle the subtask, then issue the command: `DISPLAY CONSOLES,CN=name` to check the status of the name console.

*EVO210 MVS console name alert ECB posted for unknown reason***Message Variables**

name VP390 console name

Message Description

The extended console defined for the VP390 job is posted with an alert indicating a problem, but no error flags are set in the console status area.

System Action

Processing continues.

User Action

Check the condition of the console with the command: `DISPLAY CONSOLES,CN=name`

*EVO211 DOM source key***Message Variables**

source message deletion type, either "MSGKEY" or "TOKEN"

key identifying number of the original message

Message Description

The operating system has issued a Delete Operator Message notification that a previous message (identified by a MSGKEY) or group of messages (identified by a TOKEN) have been deleted from the console.

System Action

Processing continues.

User Action

If DOM processing is active in the VP390 job (activated by the "DOM" option on the MVS parameter card in `SYSIN`), then this message will be sent to the OM server. It can be used for automatically acknowledging an existing message on the OM browser. See "Using DOM Information" in Chapter 3 for more information.

EVO214 DOM flag updated

Message Variables

None.

Message Description

In response to a `MODIFY` command, the VP390 job has changed its processing of operating system DOM messages. See "About DOM Commands" in Appendix A.

System Action

Processing continues.

User Action

None.

EVO215 PERF parameter updated

Message Variables

None.

Message Description

In response to a `MODIFY` command, the VP390 job has updated its timing intervals for performance data gathering. See "About PERF Commands" in Appendix A.

System Action

Processing continues.

User Action

None.

EVO216 SMF buffer size changed from old to new

Message Variables

<i>old</i>	Previous size of the SMF buffer, in bytes
<i>new</i>	Updated size of the SMF buffer, in bytes

Message Description

In response to a `MODIFY` command, the VP390 job has changed the size of the SMF data collection buffer. See the description of the `SMFBUFFER` command of "About PERF Commands" in Appendix A.

System Action

Processing continues.

User Action

None.

EVO217 Debug for task changed from old to new

Message Variables

<i>task</i>	Subtask name
<i>old</i>	Previous debug value
<i>new</i>	Updated debug value

Message Description

In response to a MODIFY command, VP390 has updated the debugging value for the specified subtask *task*. The amount of debug information collected varies by subtask, with "0" indicating no debugging. Debug information is written to the SYSYPRINT DD of the VP390 job. Debug information should only be collected at the request of Precisely support.

System Action

Processing continues.

User Action

None.

EVO230 Unable to initialize RMA Rexx environment

Message Variables

None.

Message Description

The RMA subtask could not find the IRXEXEC program, which is necessary for initiating Rexx programs from VP390.

System Action

The RMA subtask terminates.

User Action

Verify that the IRXEXEC program exists in the system LPALST.

EVO302 name : VP390 PPI TASK INITIALIZED

Message Variables

<i>name</i>	Name of NetView/390 PPI subtask
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Message Description

The program-to-program interface subtask for the VP390 job is successfully initialized in the NetView/390 address space.

System Action

Processing continues.

User Action

None.

EVO303 name : VP390 PPI TASK TERMINATED

Message Variables

name Name of NetView/390 PPI subtask

Message Description

The program-to-program interface task for the VP390 job is terminated in the NetView/390 address space.

System Action

Processing continues, but VP390 no longer receives unsolicited VTAM messages from NetView/390.

User Action

Restart NetView/390 if it is terminated. If only the PPI subtask is terminated, restart the subtask from a NetView/390 operator session with the `START TASK=name` command.

EVO304 name : DSIFRE FAILED FOR USER STORAGE

Message Variables

name Name of NetView/390 PPI subtask

Message Description

The VP390 PPI program running in the NetView address space received an error return code from the NetView/390 macro DSIFRE while attempting to free the 4K work area of memory during subtask shutdown.

System Action

Subtask shutdown processing continues.

User Action

Notify the system programmer that a potential memory leak exists in the currently running NetView/390.

EVO305 name : DSIFRE FAILED FOR QUEUED STORAGE

Message Variables

name Name of NetView/390 PPI subtask

Message Description

The VP390 PPI program running in the NetView address space received an error return code from NetView/390 macro DSIFRE while attempting to free all remaining subtask memory during subtask shutdown.

System Action

Subtask shutdown processing continues.

User Action

Notify the system programmer that a potential memory leak exists in the currently running NetView/390.

EVO306 name : DSIFRE FAILED FOR MQS BUFFER

Message Variables

name Name of NetView/390 PPI subtask

Message Description

The VP390 PPI program running in the NetView address space received an error return code from NetView/390 macro `DSIFRE` while attempting to free the memory allocated for the private message queue.

System Action

Processing continues.

User Action

Notify the system programmer that a potential memory leak exists in the currently running NetView/390.

EVO307 name : DSIGET FAILED FOR USER STORAGE

Message Variables

name Name of NetView/390 PPI subtask

Message Description

The VP390 PPI program running in the NetView address space failed to get a 4K block of memory for use during processing.

System Action

Task termination flag is set.

User Action

Notify the system programmer that a potential memory shortage exists in the currently running NetView/390. The region size of the NetView/390 address space may need to be increased.

EVO308 name : ENQ ERROR

Message Variables

name Name of NetView/390 PPI subtask

Message Description

An ENQ on the NetView/390 TVB chain failed.

System Action

If not already in termination processing, the task termination flag is set.

User Action

Notify the system programmer. Restart the subtask.

EVO309 name : DEQ ERROR

Message Variables

name Name of NetView/390 PPI subtask

Message Description

A DEQ on the NetView/390 TVB chain failed.

System Action

If not already in termination processing, the task termination flag is set.

User Action

Notify the system programmer. Restart the subtask.

EVO310 name : TASK ALREADY EXISTS

Message Variables

Name Name of NetView/390 PPI subtask

Message Description

The VP390 PPI subtask attempted to add itself to the NetView/390 TVB chain, but found another task with the same name already on the chain.

System Action

The task termination flag is set.

User Action

Verify that another instance of the subtask is not already running under this NetView/390. Restart the subtask.

EVO311 name : LOAD OF CNMNETV COMPLETE

Message Variables

name Name of NetView/390 PPI subtask

Message Description

The loading of the CNMNETV module into NetView virtual storage completed successfully.

System Action

Processing continues.

User Action

None.

EVO312 name : UNABLE TO LOAD CNMNETV

Message Variables

name Name of NetView/390 PPI subtask

Message Description

The loading of the CNMNETV module into virtual storage failed.

System Action

The subtask terminates.

User Action

Verify that load module CNMNETV exists in a NetView/390 STEPLIB dataset. Restart the subtask.

EVO313 name : NETVIEW INTERFACE FAILURE, RC=rcnumber

Message Variables

name Name of NetView/390 PPI subtask
rcnumber Hexadecimal return code from CNMNETV call

Message Description

A call to the CNMNETV interface routine failed.

System Action

The message is discarded.

User Action

For explanations of return codes, see the TME 10 *NetView for OS/390 Application Programmer's Guide*.

EVO314 name : NETVIEW COMMAND RECEIVED

Message Variables

name Name of NetView/390 PPI subtask

Message Description

A message was successfully received from the PPI interface routine. This message is used for debugging purposes only. It is not displayed unless the subtask is reassembled with the CMDREC lines uncommented.

System Action

Processing continues.

User Action

None.

EVO315 autotask COMMAND EXECUTION FAILED

Message Variables

autotask Name of NetView/390 autotask that executes the command

Message Description

A failure occurred in a command that was to be executed under NetView/390 on behalf of Ironstream.

System Action

The command is discarded.

User Action

Verify that the autotask defined under NetView/390 during Ironstream installation is active.
 Verify that the NTICMD and NTIMVS command lists are present in a NetView/390 DSICLD dataset.
 Verify that the name in the EVOCMD_OPERATOR field on the OVOW server (which was filled in while running the Add Node function) matches the autotask name defined under NetView/390.

*EVO351 region TRANSACTION trans RESPONSE TIME OF used SECS.
 EXCEEDED THRESHOLD OF thresh SECS.*

Message Variables

<i>region</i>	Name of CICS region
<i>trans</i>	Four-character transaction ID
<i>used</i>	Number of seconds used
<i>thresh</i>	Maximum number of seconds defined in threshold table

Message Description

A CICS transaction *trans* running under the CICS region *region* has completed, but the transaction time *used* exceeded the number of clock seconds *thresh* that was defined in the EVTHRTBL table.

System Action

Processing continues.

User Action

This message is sent to the system console. If desired, add the “EVO351” message ID to the VP390 filter table to forward it to the server as an alert.

EVO352 NO RESOURCE RECORD

Message Variables

None.

Message Description

The EVXMNOUT exit was called by CICS after the completion of a CICS transaction, but there was no monitoring resource record created for the XMNOUT exit program.

System Action

Processing continues.

User Action

Check with the system programmer that there are no errors in the CICS region.

EVO595 Command entered: cmdtxt

Message Variables

<i>cmdtxt</i>	Text of command entered
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Message Description

The VP390 job received a command from a console.

System Action

Processing continues with the execution of the command.

User Action

None.

*EVO600 TNUM TASKNAME STATUS RESTARTS/LIMIT SPECIFIC***Message Variables**

None.

Message Description

This message is the header of a table which is generated in response to a SHOW TASK console command. Additional EVO600 messages will follow with data for each subtask.

System Action

Processing continues.

User Action

None.

*EVO603 TNUM TASKNAME ADDRESS HEADER TCB***Message Variables**

None.

Message Description

This message is the header of a table which is generated in response to a SHOW ADDR console command. Additional EVO603 messages will follow with data for each subtask.

System Action

Processing continues.

User Action

None.

*EVO605 TNUM TASKNAME INPUTQ OUTPUTQ INFLOW OUTFLOW MC***Message Variables**

None.

Message Description

This message is the header of a table which is generated in response to a SHOW FLOW console command. Additional EVO605 messages will follow with data for each subtask.

System Action

Processing continues.

User Action

None.

*EVO608 TASKNAME DATE TIME***Message Variables**

None.

Message Description

This message is the header of a table which is generated in response to a `SHOW VERSION` console command. Additional EVO608 messages will follow with data for each subtask.

System Action

Processing continues.

User Action

None.

*EVO609 type filters:***Message Variables**

type Filter type, "Message"

Message Description

This message is the start of a list of filter table entries which is generated in response to a `SHOW FILTER` console command. Additional EVO609 messages will follow with lists of filter table entries. Message IDs will be listed four per line after the EVO609.

System Action

Processing continues.

User Action

None.

*EVO610 type filter data action***Message Variables**

type Filter type, "Message"

data User-entered data

action Command action, either "added" or "deleted"

Message Description

Verification message to indicate that the message of filter table action entered from a `VP390 MODIFY` command has completed successfully.

System Action

Processing continues.

User Action

None.

EVO611 type filter data not found

Message Variables

type Filter type, either "Message", "JOBNAME", or "JOBID"
data User-entered data

Message Description

A VP390 MODIFY command could not find the data entry when attempting to delete it from the message table.

System Action

Processing continues.

User Action

Use the SHOW FILTER command to see the names of the currently defined message filters.

EVO612 No type filters defined

Message Variables

type Filter type, "message" or "alert" or "command"

Message Description

A VP390 MODIFY command could not any filters of the type to display.

System Action

Processing continues.

User Action

None.

EVO613 All type filters deleted

Message Variables

type Filter type: "message and alert and command"

Message Description

A FILTER DEL ALL command has successfully deleted all message filter table entries.

System Action

Processing continues.

User Action

None.

EVO614 No suppressed messages

Message Variables

None.

Message Description

The VP390 message suppression table has no entries to display as a result of a `SHOW SUPPRESS` command.

System Action

Processing continues.

User Action

None.

*EVO615 Suppressed message IDs:***Message Variables**

None.

Message Description

This message is the header of a table which is generated in response to a `SHOW SUPPRESS` console command. Additional EVO615 messages will follow with a list of VP390 message IDs, eight per line that should not be sent to the console.

System Action

Processing continues.

User Action

None

*EVO616 action suppression of msgid***Message Variables**

action Suppression action, either "Added" or "Removed".

msgid VP390 message ID

Message Description

Verification message to indicate that the action to suppress or unsuppress a VP390 message ID from printing on the system console has completed successfully.

System Action

Processing continues.

User Action

None.

*EVO617 Message ID msgid not found in suppression table***Message Variables**

msgid VP390 message ID

Message Description

An attempt to `UNSUPPRESS` a message ID in the VP390 message suppression table failed. The message ID given was not found in the table.

System Action

Processing continues.

User Action

Use the `SHOW SUPPRESS` command to see the list of message IDs currently in the table. Use only the 3-digit suffix of the message ID when issuing an `UNSUPPRESS` command.

*EVO690 VP390 STOP Command accepted***Message Variables**

None.

Message Description

The VP390 task has received a `STOP` command.

System Action

Processing continues with shutdown of any active subtasks, then ends the main task.

User Action

None.

*EVO695 VP390 cmdtype command processed***Message Variables**

cmdtype Command type

Message Description

The VP390 job completed the initial processing of a console command. Additional messages may be sent, depending on whether additional work is being done by subtasks.

System Action

None.

User Action

None.

*EVO698 Subtask task is already status***Message Variables**

task Subtask name

status Current subtask status, either "active" or "inactive"

Message Description

A request to activate or deactivate a VP390 subtask was not processed because the subtask is already in that state.

System Action

None.

User Action

Use the `SHOW TASK` command to verify the status of the VP390 subtasks.

*EVO699 Invalid operator command entered***Message Variables**

None.

Message Description

An invalid `MODIFY` command was sent to the VP390 task.

System Action

None.

User Action

See Appendix A for syntax rules of `MODIFY` commands.

*EVO701 Starting subtask #idnum for info***Message Variables**

`idnum` Numerical ID for the newly started subtask
`info` Information sent to the `ATTACH` macro

Message Description

VP390 attached a subtask with the information provided in `info`.

System Action

Processing continues with the `ATTACH` attempt.

User Action

None.

*EVO702 Buffer size = sizeM, Queue depth = totalmsg, Maximum = maxmsg***Message Variables**

`size` Size (in megabytes) allocated for messages
`totalmsg` Total message queue depth
`maxmsg` Maximum message queue depth permitted

Message Description

A message queuing problem occurred for an MCS console defined for VP390. This message will be displayed only in the VP390 job log. Additional message(s) giving more detailed information about the problem may appear on the system console at the same time.

System Action

Processing continues. The MCS console may be terminated, depending on the severity of the queuing problem.

User Action

Monitor the VP390 job log and system console for the next message and necessary action.

EVO703 Console name is utilizing pct% of message queue

Message Variables

name Name of defined extended console
pct Percentage of console queue in use

Message Description

This message is generated when the extended console for gathering MVS messages has a backlog of messages on its queue to be processed by the VP390 task. *pct* tells what percentage of the console's queue is in use. This message is only generated when using the QLP option of the MVS SYSIN card.

System Action

Processing continues.

User Action

The extended console name may need to be re-defined with a larger queue size. See the QL and QLP options of the MVS parameter card in the *Installation Guide*.

EVO704 Console name queue backlog has been relieved

Message Variables

name Name of defined extended console

Message Description

This message is generated after an *EVO703* message is issued to announce that the console message queue shortage has been relieved. This message is only generated when using the QLP option of the MVS SYSIN card.

System Action

Processing continues.

User Action

The extended console name may need to be re-defined with a larger queue size. See the QL and QLP options of the MVS parameter card in the *Installation Guide*. This message can be used for automatically acknowledging an existing *EVO703* message on the OM browser.

EVO778 RMF data not available, rc=code

Message Variables

code Return code

Message Description

The VP390 job encountered an error while attempting to collect system data from the mainframe Resource Measurement Facility (RMF) for an *ev390hostcmd* 46 option 02 call.

System Action

The OSINFO subtask will send an *EVO131* error message in response to the *ev390hostcmd* explaining that the command had failed to complete.

User Action

The meaning of the return code can be looked up in Chapter 1 of the *IBM Resource Measurement Facility Programmer's Guide* under the section of "Return Codes" for the ERBSMFI command.

*EVO801I ERROR ACTIVATING CONSOLE***Message Variables**

None.

Message Description

An error was detected when attempting to activate an EMCS console named EVORXCON.

System Action

The command ends.

User Action

Use the `DISPLAY CONSOLES,CN=EVORXCON` command to verify that an EMCS console with that name does not already exist.

*EVO802I ERROR TRYING TO GET A MESSAGE***Message Variables**

None.

Message Description

An error was detected when attempting to retrieve console messages.

System Action

The command ends.

User Action

Look for previous errors that may have caused this condition.

*EVO805I ERROR DEACTIVATING CONSOLE***Message Variables**

None.

Message Description

An error was detected while attempting to deactivate an EMCS console.

System Action

Processing continues.

User Action

Look for previous errors that may have caused the condition. Deactivate the console before issuing the EVORXCON command again.

EVO901 Stopping subtask #number: name

Message Variables

number Subtask number
name Subtask name

Message Description

This message is issued in response to a STOP command. One message is issued for each VP390 subtask.

System Action

A termination command is sent to each of the existing subtasks.

User Action

None.

EVO902 name subtask terminated, RC = rcnumber

Message Variables

name Name of subtask
rcnumber Return code from termination call

Message Description

The named subtask is terminated.

System Action

Any queues or memory allocated for the subtask are freed.

User Action

None.

EVO903 name type queue freed, RC = rcnumber

Message Variables

name Name of subtask
type Queue type, either "Input" or "Output"
rcnumber Return code from Free call

Message Description

An allocated message queue for the named subtask has been cleared during subtask termination.

System Action

Processing continues.

User Action

None.

EVO904 All VP390 subtasks completed

Message Variables

None.

Message Description

The VP390 job completed the shutdown of all subtasks.

System Action

Processing continues with main task shutdown.

User Action

None.

EVO905 Restart #num of subtask name will be attempted in sec seconds

Message Variables

num Count of number of restarts for this subtask
name Name of subtask
sec Number of seconds until next automatic restart attempt

Message Description

The subtask name has been terminated, but will be automatically restarted in sec seconds.

System Action

Processing continues.

User Action

None.

EVO906 No auto restart for name - Use INIT command to restart

Message Variables

name Name of subtask

Message Description

The subtask *name* has terminated and will not restart because it has exceeded the number of automatic restarts allowed.

System Action

Processing continues.

User Action

Use the console `INIT` command to restart the subtask. See Appendix A for the syntax of the `INIT` command. Use the console command `SHOW TASK` to see how many restarts are allowed for each subtask. To change the number of automatic restarts that a subtask is allowed, add a `RESTART` card to the `SYSIN` deck just prior to the name subtask parameter card. See the "RESTART Parameter Card" in the *Installation Guide* for the syntax of the `RESTART` card.