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**Source:** SA5 (Telecom Management)  
**Title:** CR 32341-3 Notification Log (NL) IRP  
**Document for:** Approval  
**Agenda Item:** 7.5.3

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Doc-1st-Level	Spec	CR	R	Phase	Subject	Ca	VerCr	Doc-2nd-Level	Workitem
SP-050037	32.341	001	--	Rel-6	Add file type requirements - Align with FTIRP IS in TS 32.342	F	6.0.0	S5-056085	OAM-NIM
SP-050037	32.343	002	--	Rel-6	IDL incompliant to the style guide	F	6.1.0	S5-056066	OAM-NIM

## CHANGE REQUEST

⌘ **32.343 CR 002** ⌘ rev **-** ⌘ Current version: **6.1.0** ⌘

For **HELP** on using this form, see bottom of this page or look at the pop-up text over the ⌘ symbols.

**Proposed change affects:** UICC apps  ME  Radio Access Network  Core Network

<b>Title:</b>	⌘ IDL incompliant to the style guide		
<b>Source:</b>	⌘ SA5 (huangsq@zte.com.cn)		
<b>Work item code:</b>	⌘ OAM-NIM	<b>Date:</b>	⌘ 28/01/2005
<b>Category:</b>	⌘ <b>F</b>	<b>Release:</b>	⌘ Rel-6
	Use <u>one</u> of the following categories: <b>F</b> (correction) <b>A</b> (corresponds to a correction in an earlier release) <b>B</b> (addition of feature), <b>C</b> (functional modification of feature) <b>D</b> (editorial modification) Detailed explanations of the above categories can be found in 3GPP <a href="#">TR 21.900</a> .		Use <u>one</u> of the following releases: 2 (GSM Phase 2) R96 (Release 1996) R97 (Release 1997) R98 (Release 1998) R99 (Release 1999) Rel-4 (Release 4) Rel-5 (Release 5) Rel-6 (Release 6) Rel-7 (Release 7)

<b>Reason for change:</b>	⌘ The IDL does not reflect the format recommended by the style guide (TS 32.150).
<b>Summary of change:</b>	⌘ Add double slash between " #endif " and the macro.
<b>Consequences if not approved:</b>	⌘ The IDL won't conform to the styleguide, and will compile errors when using java compilers ( e.g., idlj.exe).

<b>Clauses affected:</b>	⌘ Annex A						
<b>Other specs affected:</b>	<table border="1" style="display: inline-table; border-collapse: collapse;"> <tr> <td style="width: 20px; text-align: center;">Y</td> <td style="width: 20px; text-align: center;">N</td> </tr> <tr> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> </tr> </table> Other core specifications	Y	N	<input type="checkbox"/>	<input checked="" type="checkbox"/>	⌘	
Y	N						
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	<table border="1" style="display: inline-table; border-collapse: collapse;"> <tr> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> </tr> </table> Test specifications	<input type="checkbox"/>	<input checked="" type="checkbox"/>	⌘			
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	<table border="1" style="display: inline-table; border-collapse: collapse;"> <tr> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> </tr> </table> O&M Specifications	<input type="checkbox"/>	<input checked="" type="checkbox"/>	⌘			
<input type="checkbox"/>	<input checked="" type="checkbox"/>						
<b>Other comments:</b>	⌘						

## Annex A (normative): IDL specifications

### A.1 IDL specification (file name "FileTransferIRPCConstDefs.idl")

```
// File: FileTransferIRPCConstDefs.idl

#ifndef _FILETRANSFERIRPCONSTDEFS_IDL_
#define _FILETRANSFERIRPCONSTDEFS_IDL_

#include "TimeBase.idl"

// This statement must appear after all include statements
#pragma prefix "3gppsa5.org"

/* ## Module: FileTransferIRPCConstDefs
This module contains commonly used definitions for FileTransferIRP.
=====
*/
module FileTransferIRPCConstDefs
{
    enum ResultType {OK, Failure};

    typedef TimeBase::UtcT UTCTimeType;

    enum LocationChoice {Directory, URL};

    //The FileLocationType may be a directory path or a URL
    union FileLocationType switch (LocationChoice)
    {
        case Directory: string fileLocationDirectory;
        /* e.g. \\202.112.101.1\D:\user\performanceFiles\ */
        case URL: string fileLocationURL;
        /* e.g. ftp://nms.telecom_org.com/datastore/<fileName> */
    };

    typedef unsigned long FileSizeType; //the unit is byte
    typedef string FileCompressionType;
    typedef string FileFormatType;

    struct FileInfoType
    {
        FileLocationType fileLocation;
        FileSizeType fileSize;
        UTCTimeType fileReadyTime;
        UTCTimeType fileExpirationTime;
        FileCompressionType fileCompression;
        FileFormatType fileFormat;
    };

    typedef sequence<FileInfoType> FileInfoListType;

    const short PMManagementDataType = 1;//Performance Management
    const short CMManagementDataType = 2;//Configuration Management
    const short IMManagementDataType = 3;//Inventory Management
    const short TMManagementDataType = 4;//Test Management
    const short CTManagementDataType = 5;//Subscriber & Equipment Trace
    const short NLManagementDataType = 6;//Notification Log
    const short CGManagementDataType = 7;//Charging
    const short OTManagementDataType = 8;//Other Types

    /*
    Define the parameters specified in the notifyFileReady
    and notifyFilePreparationError notification.
    */
}
```

```

*/
interface AttributeNameValue
{
    const string FILE_INFO_LIST = "FILE_INFO_LIST";
    const string ADDITIONAL_TEXT = "ADDITIONAL_TEXT";
    const string REASON = "REASON";
};

};

#endif FILETRANSFERIRPCONSTDEFS_IDL_

```

---

## A.2 IDL specification (file name "FileTransferIRPSystem.idl")

```

// File: FileTransferIRPSystem.idl

#ifndef FILETRANSFERIRPSYSTEM_IDL_
#define FILETRANSFERIRPSYSTEM_IDL_

#include "ManagedGenericIRPCConstDefs.idl"
#include "ManagedGenericIRPSystem.idl"
#include "FileTransferIRPCConstDefs.idl"

// This statement must appear after all include statements
#pragma prefix "3gppsa5.org"

/* ## Module: FileTransferIRPSystem
This module implements capabilities of FileTransferIRP.
=====
*/
module FileTransferIRPSystem
{

    exception InvalidTimes { string reason; };
    exception InvalidFileInfoList { string reason; };

    /*
    System fails to complete the operation. System can provide reason
    to qualify the exception. The semantics carried in reason
    is outside the scope of this IRP.
    */
    exception ListAvailableFiles { string reason; };
    exception FileDownloadIndication { string reason; };
    exception GetFileTransferIRPVersions { string reason; };
    exception GetFileTransferIRPOperationsProfile { string reason; };
    exception GetFileTransferIRPNotificationsProfile { string reason; };

    /*
    */
    interface FileTransferIRP
    {
        /*
        * IRPManager invoke this operation to get the files information
        */
        FileTransferIRPCConstDefs::ResultType    list_available_files(
            in short managementDataType,
            in FileTransferIRPCConstDefs::UTCTimeType beginTime,
            in FileTransferIRPCConstDefs::UTCTimeType endTime,
            out FileTransferIRPCConstDefs::FileInfoListType fileInfoList
        )
        raises (ListAvailableFiles, InvalidTimes,
            ManagedGenericIRPSystem::InvalidParameter);

        /*
        * IRPManager invoke this operation to indicate completion of downloading files to IRPagent
        */
        FileTransferIRPCConstDefs::ResultType    file_download_indication(
            in FileTransferIRPCConstDefs::FileInfoListType fileInfoList
        )
        raises (FileDownloadIndication, InvalidFileInfoList,
            ManagedGenericIRPSystem::OperationNotSupported);
    }
}

```

```

/**
 * Return the list of all supported FileTransferIRP versions.
 */
ManagedGenericIRPConstDefs::VersionNumberSet get_FileTransfer_IRP_versions (
)
raises (GetFileTransferIRPVersions);

/**
 * Return the list of all supported operations and their supported
 * parameters for a specific FileTransferIRP version.
 */
ManagedGenericIRPConstDefs::MethodList get_FileTransfer_IRP_operations_profile (
    in ManagedGenericIRPConstDefs::VersionNumber iRPVersion
)
raises (GetFileTransferIRPOperationsProfile,
        ManagedGenericIRPSystem::OperationNotSupported,
        ManagedGenericIRPSystem::InvalidParameter);

/**
 * Return the list of all supported notifications and their supported
 * parameters for a specific FileTransferIRP version.
 */
ManagedGenericIRPConstDefs::MethodList get_FileTransfer_IRP_notifications_profile
(
    in ManagedGenericIRPConstDefs::VersionNumber iRPVersion
)
raises (GetFileTransferIRPNotificationsProfile,
        ManagedGenericIRPSystem::OperationNotSupported,
        ManagedGenericIRPSystem::InvalidParameter);
};

};

#endif __FILETRANSFERIRPSYSTEM_IDL__

```

---

## A.3 IDL specification (file name "FileTransferIRPNotifications.idl")

```

// File: FileTransferIRPNotifications.idl

#ifndef __FILETRANSFERIRPNOTIFICATIONS_IDL__
#define __FILETRANSFERIRPNOTIFICATIONS_IDL__

#include "FileTransferIRPConstDefs.idl"
#include "NotificationIRPConstDefs.idl"
#include "NotificationIRPNotifications.idl"

// This statement must appear after all include statements
#pragma prefix "3gppsa5.org"

/* ## Module: FileTransferIRPNotifDefs
This contains the specification of notifications of FileTransferIRP.
=====
*/
module FileTransferIRPNotifications
{

    /**
    * Constant definitions for the FileReady notification
    */
    interface notifyFileReady: NotificationIRPNotifications::Notify
    {
        const string EVENT_TYPE = "notifyFileReady";

        /**
        * This constant defines the name of the fileInfoList property,
        * which is transported in the filterable_body fields.
        * The data type for the value of this property is
        * FileTransferIRPConstDefs::FileInfoListType.
        */
    }
}

```

```

*/
const string FILE_INFO_LIST =
    FileTransferIRPConstDefs::AttributeNameValue::FILE_INFO_LIST;

/**
 * This constant defines the name of the additionalText property,
 * which is transported in the filterable_body fields.
 * The data type for the value of this property is string.
 */
const string ADDITIONAL_TEXT =
    FileTransferIRPConstDefs::AttributeNameValue::ADDITIONAL_TEXT;
};

/**
 * Constant definitions for the FilePreparationError notification
 */
interface notifyFilePreparationError:
    NotificationIRPNotifications::Notify
{
    const string EVENT_TYPE = "notifyFilePreparationError";

    /**
     * This constant defines the name of the fileInfoList property,
     * which is transported in the filterable_body fields.
     * The data type for the value of this property is
     * FileTransferIRPConstDefs::FileInfoListType.
     */
    const string FILE_INFO_LIST =
        FileTransferIRPConstDefs::AttributeNameValue::FILE_INFO_LIST;

    /**
     * This constant defines the name of the reason property,
     * which is transported in the filterable_body fields.
     * The data type for the value of this property is string.
     */
    const string REASON =
        FileTransferIRPConstDefs::AttributeNameValue::REASON;

    /**
     * This constant defines the name of the additionalText property,
     * which is transported in the filterable_body fields.
     * The data type for the value of this property is string.
     */
    const string ADDITIONAL_TEXT =
        FileTransferIRPConstDefs::AttributeNameValue::ADDITIONAL_TEXT;
};
};
#endif // _FILETRANSFERIRPNOTIFICATIONS_IDL_

```

<b>End of change in Annex A</b>
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## Annex B (informative): Change history

Change history							
Date	TSG #	TSG Doc.	CR	Rev	Subject/Comment	Old	New
Mar 2004	S_23	SP-040127	--	--	Submitted to TSG SA#23 for Information	1.0.0	
Sep 2004	S_25	SP-040563	--	--	Submitted to TSG SA#25 for Approval	2.0.0	6.0.0
Dec 2004	S_26	SP-040800	001	--	Correct mapping of IS-defined non-filterable parameters to SS-defined non-filterable fields - Align IDL style in FT IRP CORBA SS with IDL Style Guide in 32.150	6.0.0	6.1.0

## CHANGE REQUEST

# **32.341 CR 001** # rev **-** # Current version: **6.0.0** #

For **HELP** on using this form, see bottom of this page or look at the pop-up text over the # symbols.

**Proposed change affects:** UICC apps  ME  Radio Access Network  Core Network

<b>Title:</b>	# Add file type requirements - Align with FTIRP IS in TS 32.342		
<b>Source:</b>	# SA5 (huangsq@zte.com.cn)		
<b>Work item code:</b>	# OAM-NIM	<b>Date:</b>	# 28/01/2005
<b>Category:</b>	# <b>F</b>	<b>Release:</b>	# Rel-6
	<i>Use one of the following categories:</i> <b>F</b> (correction) <b>A</b> (corresponds to a correction in an earlier release) <b>B</b> (addition of feature), <b>C</b> (functional modification of feature) <b>D</b> (editorial modification) Detailed explanations of the above categories can be found in 3GPP <a href="#">TR 21.900</a> .		<i>Use one of the following releases:</i> <b>Ph2</b> (GSM Phase 2) <b>R96</b> (Release 1996) <b>R97</b> (Release 1997) <b>R98</b> (Release 1998) <b>R99</b> (Release 1999) <b>Rel-4</b> (Release 4) <b>Rel-5</b> (Release 5) <b>Rel-6</b> (Release 6) <b>Rel-7</b> (Release 7)

<b>Reason for change:</b>	# Notification log and charging file types missing in file type requirement, which have been defined as "NL" and "CF" respectively in FTIRP IS.
<b>Summary of change:</b>	# Add Notification log and charging file in file type requirement, add corresponding reference in clause 2, correct a minor error in general requirements.
<b>Consequences if not approved:</b>	# The file type requirement will be incompleted, the notification log and charging file type which have already defined in FTIRP IS can not find a corresponding requirement.

<b>Clauses affected:</b>	# 2, 5.1 and 5.2						
<b>Other specs affected:</b>	<table border="1" style="display: inline-table; border-collapse: collapse;"> <tr> <td style="text-align: center;">Y</td> <td style="text-align: center;">N</td> </tr> <tr> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> </tr> </table> Other core specifications	Y	N	<input type="checkbox"/>	<input checked="" type="checkbox"/>	#	
Y	N						
<input type="checkbox"/>	<input checked="" type="checkbox"/>						
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<input type="checkbox"/>	<input checked="" type="checkbox"/>						
<b>Other comments:</b>	#						

## Change in Clause 2

## 2 References

The following documents contain provisions that, through reference in this text, constitute provisions of the present document.

- References are either specific (identified by date of publication, edition number, version number, etc.) or non-specific.
- For a specific reference, subsequent revisions do not apply.
- For a non-specific reference, the latest version applies. In the case of a reference to a 3GPP document (including a GSM document), a non-specific reference implicitly refers to the latest version of that document *in the same Release as the present document*.

...

- [8] 3GPP TS 32.41x-series: "Telecommunication management; Performance Management (PM) Integration Reference Point (IRP)".
- [9] 3GPP TS 32.421: "Telecommunication management; Subscriber and equipment trace: Trace concepts and requirements".
- [10] 3GPP TS 32.61x-series: Telecommunication management; Configuration Management (CM); Bulk CM Integration Reference Point (IRP)".
- [11] [3GPP TS 32.240: "Telecommunication management; Charging management; Charging architecture and principles"](#).

## End of Change in Clause 2

## Change in Clause 5.1 and 5.2

### 5.4-1 General requirements for File Transfer IRP

The FT IRP shall ensure preservation of file content:

- The used file transfer protocol implementation shall preserve the formatting of the file during exchange.
- The used file transfer protocol implementation shall preserve the encoding of the file during exchange.

NOTE 1: Above requirement(s) are considered as being satisfied by FTP.

The FT IRP shall support the following file transfer protocols:

- FTP.
- SFTP

NOTE 2: SFTP providing initial security capabilities, which may be complemented by additional security features that might be added in future versions of the present document).

The FT IRP shall specify all necessary descriptive file information and parameters, to enable exchange of files between IRPManager and IRPAgent and to ensure respective file management capabilities (such as listing).

File Name conventions:



