

**Source:** SA5 (Telecom Management)  
**Title:** Rel-6 CR002R1 32.363 Entry Point (EP) IRP CORBA SS  
**Document for:** Approval  
**Agenda Item:** 7.5.3

Doc1stLevel	Specific a	CR	R	Phase	Subject	Ca	VersCu	Doc2ndLev	Workitemsl D
SP-040877	32.363	002	1	Rel-6	Correct mapping of IS-defined non-filterable parameters to SS-defined non-filterable fields, Eliminate new definitions in EP IRP CORBA SS	F	6.1.0	S5-047777	OAM-NIM

## CHANGE REQUEST

⌘ **32.363 CR 002** ⌘ rev **1** ⌘ 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>	⌘	Correct mapping of IS-defined non-filterable parameters to SS-defined non-filterable fields, Eliminate new definitions in EP IRP CORBA SS
<b>Source:</b>	⌘	SA5 (edwin.tse@ericsson.com)
<b>Work item code:</b>	⌘	OAM-NIM
		<b>Date:</b> ⌘ 19/11/2004
<b>Category:</b>	⌘	<b>F</b>
		<div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> <p>Use <u>one</u> of the following categories:</p> <p><b>F</b> (correction)</p> <p><b>A</b> (corresponds to a correction in an earlier release)</p> <p><b>B</b> (addition of feature),</p> <p><b>C</b> (functional modification of feature)</p> <p><b>D</b> (editorial modification)</p> <p>Detailed explanations of the above categories can be found in 3GPP <a href="#">TR 21.900</a>.</p> </div> <div style="width: 45%;"> <p>Use <u>one</u> of the following releases:</p> <p>2 (GSM Phase 2)</p> <p>R96 (Release 1996)</p> <p>R97 (Release 1997)</p> <p>R98 (Release 1998)</p> <p>R99 (Release 1999)</p> <p>Rel-4 (Release 4)</p> <p>Rel-5 (Release 5)</p> <p>Rel-6 (Release 6)</p> </div> </div>
<b>Release:</b>	⌘	Rel-6

<b>Reason for change:</b>	⌘	Correct the mapping of IS-defined non-filterable parameters to SS-defined non-filterable fields (instead of filterable fields). Split the IDL file into 3 separate IDL files for clarity in IDL file intent. Eliminate new definitions.
<b>Summary of change:</b>	⌘	Place IS-defined non-filterable parameters into remaining_body of CORBA structured event. Split the IDL file into 3 IDL files as recommended in IDL Style Guide. Eliminate the new definition for type for Distinguished Name.
<b>Consequences if not approved:</b>	⌘	IRPAgent wastes CPU cycles on non-filterable parameters. IDL readers, familiar with the multiple-IDL-file layouts of all other Yyy IRP CORBA SS specifications, could be confused with the one-IDL-file structure used by EPIRP.

<b>Clauses affected:</b>	⌘	5.2, 5.3 Table 8, A.1								
<b>Other specs affected:</b>	⌘	<table border="1" style="display: inline-table; border-collapse: collapse; text-align: center;"> <tr> <td style="width: 20px;">Y</td> <td style="width: 20px;">N</td> </tr> <tr> <td style="width: 20px;"> </td> <td style="width: 20px;">X</td> </tr> <tr> <td style="width: 20px;"> </td> <td style="width: 20px;">X</td> </tr> <tr> <td style="width: 20px;"> </td> <td style="width: 20px;">X</td> </tr> </table> Other core specifications ⌘ Test specifications ⌘ O&M Specifications ⌘	Y	N		X		X		X
Y	N									
	X									
	X									
	X									
<b>Other comments:</b>	⌘									

## Change in Clause 5.2

### 5.2 Operation parameter mapping

The EPIRP: IS 3GPP TS 32.362 [6] defines semantics of parameters carried in operations across the EPIRP. The following tables indicate the mapping of these parameters, as per operation, to their equivalents defined in this SS.

**Table 2: Mapping from IS `getIRPOutline` parameters to SS equivalents**

IS Operation parameter	SS Method parameter	Qualifier
iRPVersion	ManagedGenericIRPConstDefs::VersionNumber iRPVersion	M
supportedIRPList	<del>EPIRPSystem</del> EPIRPConstDefs::SupportedIRPListType supportedIRPList	M
status	<del>EPIRPSystem</del> EPIRPConstDefs::ResultType Exception: GetIRPOutline, InvalidIRPVersion	M

**Table 3: Mapping from IS `getIRPReference` parameters to SS equivalents**

IS Operation parameter	SS Method parameter	Qualifier
managerIdentifier	<del>EPIRPSystem</del> EPIRPConstDefs::ManagerIdentifierType managerIdentifier	M
systemDn	EPIRPConstDefs: <del>EPIRPSystem::System</del> DNTYPE systemDn	M
iRPId	EPIRPConstDefsEPIRPSystem::IRPIdType irpld	M
iRPReference	string iRPReference (stringified IOR)	M
status	EPIRPConstDefsEPIRPSystem::ResultType Exception: GetIRPReference, InvalidRequestedParameters	M

**Table 4: Mapping from IS `releaseIRPReference` parameters to SS equivalents**

IS Operation parameter	SS Method parameter	Qualifier
managerIdentifier	EPIRPConstDefsEPIRPSystem::ManagerIdentifierType managerIdentifier	M
iRPReference	string iRPReference (stringified IOR)	M
status	EPIRPConstDefsEPIRPSystem::ResultType Exception: ReleaseIRPReference, UnknownIRPReference	M

**End of change in Clause 5.2**

## Change in Clause 5.3 Table 8

**Table 8: Mapping for notifyIRPInfoChanges**

IS Parameters	OMG CORBA Structured Event attribute	Qualifier	Comment
There is no corresponding IS attribute.	domain_name	M	It carries the IRP document version number string. See clause 3.1. It indicates the syntax and semantics of the Structured Event as defined by the present document.
notificationType	type_name	M	This is the ET_IRPINFO_CHANGES of module of EPIRPSystem.
There is no corresponding IS attribute	event_name	M	It carries no information.
There is no corresponding IS attribute.	Variable Header		
objectClass, objectInstance	One NV pair of filterable_body_fields	M	NV stands for name-value pair. Order arrangement of NV pairs is not significant. The name of NV-pair is always encoded in string.  Name of this NV pair is the MANAGED_OBJECT_INSTANCE of interface AttributeNameValue of module NotificationIRPConstDefs.  Value of NV pair is a string. See corresponding table in Notification IRP: CORBA SS (3GPP TS 32.303 [7]).
notificationId	One NV pair of <del>filterable_body_fields</del> remaining_body	M	Name of NV pair is the NOTIFICATION_ID of interface AttributeNameValue of module NotificationIRPConstDefs.  Value of NV pair is a long. See corresponding table in Notification IRP: CORBA SS (3GPP TS 32.303 [7]).
eventTime	One NV pair of filterable_body_fields	M	Name of NV pair is the EVENT_TIME of interface AttributeNameValue of module NotificationIRPConstDefs.  Value of NV pair is IRPTime. See corresponding table in Notification IRP: CORBA SS (3GPP TS 32.303 [7]).
systemDN	One NV pair of filterable_body_fields	M	Name of NV pair is the SYSTEM_DN of interface AttributeNameValue of module NotificationIRPConstDefs.  Value of NV pair is a string. See corresponding table in Notification IRP: CORBA SS (3GPP TS 32.303 [7]).
iRPDn	One NV pair of <del>filterable_body_fields</del> remaining_body	M	Name of NV pair is the IRP_DN of module EPIRPSystem:: AttributeNameValue.  Value of NV pair is a <del>EPIRPSystem::IRPDnType</del> EPIRPSystem::IRPDnType of module EPIRPSystem.
changeMode	One NV pair of <del>filterable_body_fields</del> remaining_body	M	Name of NV pair is the CHANGE_MODE of module EPIRPSystem:: AttributeNameValue.  Value of NV pair is a <del>EPIRPSystem::ChangeModeType</del> EPIRPSystem::ChangeModeType of module EPIRPSystem.
additionalText	One NV pair of <del>filterable_body_fields</del> remaining_body	M	Name of NV pair is the ADDITIONAL_TEXT of module EPIRPSystem:: AttributeNameValue.  Value of NV pair is a string.
<del>There is no corresponding IS attribute.</del>	<del>remaining_body</del>		

## End of change in Clause 5.3 Table 8

## Change in Clause A.1

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

```
// File: EPIRPConstDefs.idl

#ifndef _EPIRPCONSTDEFS_IDL_EPIRPSystem_idl
#define _EPIRPCONSTDEFS_IDL_EPIRPSystem_idl

#include "NotificationIRPConstDefs.idl"
#include "ManagedGenericIRPConstDefs.idl"
#include "ManagedGenericIRPSystem.idl"

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

/* ## Module: EPIRPSystem
This module implements capabilities of EPIRP.
=====
*/
module EPIRPConstDefsSystem
{
    enum ResultType {OK, FAILUREailure};

    typedef string IRPIdType;
    typedef string SystemDNType;
    typedef sequence<DNTypestring> DNListType;

    /*
    IRPManagementScopeOpt is a type carrying an optional parameter.
    If the boolean is TRUE, then the value is present.
    Otherwise the value is absent.

    */
    union IRPManagementScopeOpt switch (boolean)
    {
        case TRUE: DNListType value;
    };

    /*
    The IRPElement defines the structure to be returned as part of
    getIRPOutline().
    */
    struct IRPElement
    {
        IRPIdType irpId;
        ManagedGenericIRPConstDefs::VersionNumberSet irpVersions;
        IRPManagementScopeOpt irpManagementScope;
    };

    /*
    List of all IRPElement and their associated parameters.
    */
    typedef sequence<IRPElement> IRPListType;

    struct SupportedIRPListTypeElement
    {
        SystemDNType systemDN;
        IRPListType irpList;
    };

    typedef sequence<SupportedIRPListTypeElement> SupportedIRPListType;

    typedef string ManagerIdentifierType;

typedef string IRPDnType;
    enum ChangeModeType {REGISTER, DEREGISTER, MODIFY};
}
```

```
/*
Define the parameters specified in
the notifyEpInfoChanges notification.
*/
interface AttributeNameValue
{
    const string IRP_DN = "IRP_DN";
    const string CHANGE_MODE = "CHANGE_MODE";
    const string ADDITIONAL_TEXT = "ADDITIONAL_TEXT";
};
};
#endif __EPIRPCONSTDEFS_IDL__
```

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

```
// File: EPIRPSystem.idl

#ifndef _EPIRPSYSTEM_IDL_
#define _EPIRPSYSTEM_IDL_

#include "ManagedGenericIRPConstDefs.idl"
#include "ManagedGenericIRPSystem.idl"
#include "EPIRPConstDefs.idl"

/* ## Module: EPIRPSystem
*/
module EPIRPSystem
{

const string ET_IRPINFO_CHANGES = "notifyIrpInfoChanges";

exception InvalidIRPVersion { string reason; };
exception InvalidRequestedParameters { string reason; };
exception UnknownIRPReference { 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 GetIRPOutline { string reason; };
exception GetIRPReference { string reason; };
exception ReleaseIRPReference { string reason; };
exception GetEPIRPVersions { string reason; };
exception GetEPIRPOperationsProfile { string reason; };
exception GetEPIRPNotificationProfile { string reason; };

/*
*/
interface EPIRP
{
/**
* The IRPManager uses this operation to request the EPIRP to
* return the outline information of the supported IRPs. The EPIRP
* shall return the outline information of all the IRPs supported by the
* IRPAgent that contains the EPIRP. The EPIRP may
* additionally return the outline information of all the IRPs supported
* by other IRPAgents.
*/
EPIRPConstDefs::ResultType get_IRP_outline(
in ManagedGenericIRPConstDefs::VersionNumber irpVersion,
out EPIRPConstDefs::SupportedIRPListType supportedIRPList
)
raises (GetIRPOutline,InvalidIRPVersion);

/**
* The IRPManager uses this operation to request the EPIRP to return
* the stringified IOR of the IRP identified by systemDn and irpId.
*/
EPIRPConstDefs::ResultType get_IRP_reference(
in EPIRPConstDefs::ManagerIdentifierType managerIdentifier,
in EPIRPConstDefs::SystemDNType systemDn,
in EPIRPConstDefs::IRPIdType irpId,
out string irpReference
)
raises (GetIRPReference,
ManagedGenericIRPSystem::InvalidRequestedParameters);

/**
* The IRPManager uses this operation to request the IRPAgent to
* release a specific IRP reference. Whether the IRP reference
* is really released or not in the IRPAgent is outside the
* scope of this document.
*/
EPIRPConstDefs::ResultType release_IRP_reference(
in EPIRPConstDefs::ManagerIdentifierType managerIdentifier,
in string irpReference
```

```

)
raises (ReleaseIRPReference,
        UnknownIRPReference);

/**
 * Return the list of all supported EPIRP versions.
 */
ManagedGenericIRPConstDefs::VersionNumberSet get_EP_IRP_versions (
)
raises (GetEPIRPVersions);

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

/**
 * Return the list of all supported notifications and their supported
 * parameters for a specific EPIRP version.
 */
ManagedGenericIRPConstDefs::MethodList get_EP_IRP_notification_profile
(
    in ManagedGenericIRPConstDefs::VersionNumber iRPVersion
)
raises (GetEPIRPNotificationProfile,
        ManagedGenericIRPSystem::OperationNotSupported,
        ManagedGenericIRPSystem::InvalidParameter);
};
};
#endif _EPIRPSYSTEM_IDL_

```



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

```
// File: EPIRPNotifications.idl

#ifndef _EPIRPNOTIFICATIONS_IDL_
#define _EPIRPNOTIFICATIONS_IDL_

#include "NotificationIRPNotifications.idl"
#include "EPIRPConstDefs.idl"

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

/* ## Module: EPIRPNotifications
*/
module EPIRPNotifications
{
    /**
    * Constant definitions for the EPInfoChanges notification
    */
    interfacemodule notifyIRPInfoChanges: NotificationIRPNotifications::Notify
    {
        const string ET_IRPINFO_CHANGES = "notifyIrpInfoChanges";
        const string MANAGED_OBJECT_CLASS =
        NotificationIRPConstDefs::AttributeNameValue::MANAGED_OBJECT_CLASS;
        const string MANAGED_OBJECT_INSTANCE =
        NotificationIRPConstDefs::AttributeNameValue::MANAGED_OBJECT_INSTANCE;
        const string NOTIFICATION_ID =
        NotificationIRPConstDefs::AttributeNameValue::NOTIFICATION_ID;
        const string EVENT_TIME =
        NotificationIRPConstDefs::AttributeNameValue::EVENT_TIME;
        const string SYSTEM_DN =
        NotificationIRPConstDefs::AttributeNameValue::SYSTEM_DN;
        const string EVENT_TYPE = ET_IRPINFO_CHANGES;

        /**
        * This constant defines the name of the iRPDn property.
        * which is transported in the filterable body fields.
        * The data type for the value of this property
        * is IRPDNType.
        */
        const string IRP_DN =
            EPIRPConstDefs::AttributeNameValue::IRP_DN;

        /**
        * This constant defines the name of the changeMode property.
        * which is transported in the filterable body fields.
        * The data type for the value of this property is ChangeModeType.
        */
        const string CHANGE_MODE =
            EPIRPConstDefs::AttributeNameValue::CHANGE_MODE;

        /**
        * 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 =
            EPIRPConstDefs::AttributeNameValue::ADDITIONAL_TEXT;
    };
};

#endif _EPIRPNOTIFICATIONS_IDL_
```

**End of change in Clause A.1  
End of document**