
Source: SA5 (Telecom Management)

Title: 3 Rel-4/5 CR 32.622 (Configuration Management; Generic network resources IRP: Network Resource Model)

Document for: Approval

Agenda Item: 7.5.3

Doc-1st-	Spec	CR	R	Ph	Subject	Cat	Ver	Doc-2nd-	Workite
SP-030280	32.622	007	-	Rel-4	Correction of Notifications for IOCs and MOCs	F	4.3.0	S5-036331	OAM-CM
SP-030280	32.622	008	-	Rel-5	Correction of Notifications for IOCs	A	5.0.0	S5-036293	OAM-CM
SP-030280	32.622	009	-	Rel-4	Correction of the log notification for Bulk CM - Alignment with 32.612	F	4.3.0	S5-036458	OAM-CM

CHANGE REQUEST

⌘ **32.622 CR 007** ⌘ rev **-** ⌘ Current version: **4.3.0** ⌘

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

Title:	⌘ Correction of Notifications for IOCs and MOCs		
Source:	⌘ SA5		
Work item code:	⌘ OAM-CM	Date:	⌘ 28/02/03
Category:	⌘ F	Release:	⌘ Rel-4
	Use <u>one</u> of the following categories: F (correction) A (corresponds to a correction in an earlier release) B (addition of feature), C (functional modification of feature) D (editorial modification) Detailed explanations of the above categories can be found in 3GPP TR 21.900 .		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)

Reason for change:	⌘ Notifications Missing
Summary of change:	⌘ Add missing notifications according updated IS Template in 32.102
Consequences if not approved:	⌘ Incorrect specification of which notifications apply to IOCs and MOCs.

Clauses affected:	⌘ 6.1.3, 6.1.4, 6.1.5, 7 and 8.2.2.										
Other specs affected:	<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> <tr> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> </tr> <tr> <td style="text-align: center;"><input checked="" type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> </tr> </table>	Y	N	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Other core specifications	⌘
	Y	N									
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<input checked="" type="checkbox"/>	<input type="checkbox"/>										
		Test specifications									
		O&M Specifications	⌘ Rel-5 32.622								
Other comments:	⌘ Rel-5 Mirror CR is attached in S5-036293.										

How to create CRs using this form:

Change in Clause 6.1.3

6.1.3 Information object class definitions

6.1.3.1 GenericIRP

...

6.1.3.2 IRPAgent

6.1.3.2.1 Definition

...

6.1.3.2.2 Attributes

Table 2: Attributes of IRPAgent

Attribute Name	Support Qualifier
irpAgentId	M
systemDN	C

6.1.3.2.3 Notifications

Table 3: Notifications of IRPAgent

Name	Qualifier	Notes
<u>notifyAckStateChanged</u>	See Alarm IRP (3GPP TS 32.111-2 [11])	
<u>notifyAttributeValueChange</u>	O	
<u>notifyChangedAlarm</u>	See Alarm IRP (3GPP TS 32.111-2 [11])	
<u>notifyClearedAlarm</u>	See Alarm IRP (3GPP TS 32.111-2 [11])	
<u>notifyNewAlarm</u>	See Alarm IRP (3GPP TS 32.111-2 [11])	
<u>notifyObjectCreation</u>	O	
<u>notifyObjectDeletion</u>	O	
<u>notifyComments</u>	See Alarm IRP (3GPP TS 32.111-2 [11])	
<u>notifyAlarmListRebuilt</u>	See Alarm IRP (3GPP TS 32.111-2 [11])	

6.1.3.3 ManagedElement

6.1.3.3.1 Definition

....

6.1.3.3.2. Attributes

Table 34: Attributes of ManagedElement

Attribute Name	Support Qualifier
managedElementId	M
dnPrefix	C
managedElementType	M
userLabel	M
vendorName	M
userDefinedState	M
locationName	M
swVersion	M

6.1.3.3.3. Notifications

Table 5: Notifications of ManagedElement

Name	Qualifier	Notes
<u>notifyAckStateChanged</u>	See Alarm IRP (3GPP TS 32.111-2 [11])	
<u>notifyAttributeValueChange</u>	O	
<u>notifyChangedAlarm</u>	See Alarm IRP (3GPP TS 32.111-2 [11])	
<u>notifyClearedAlarm</u>	See Alarm IRP (3GPP TS 32.111-2 [11])	
<u>notifyNewAlarm</u>	See Alarm IRP (3GPP TS 32.111-2 [11])	
<u>notifyObjectCreation</u>	O	
<u>notifyObjectDeletion</u>	O	
<u>notifyComments</u>	See Alarm IRP (3GPP TS 32.111-2 [11])	
<u>notifyAlarmListRebuilt</u>	See Alarm IRP (3GPP TS 32.111-2 [11])	

6.1.3.4. ManagedFunction

6.1.3.4.1. Definition

This information Object Class is provided for sub-classing only. It provides attribute(s) that are common to functional Information Object Classes. Note that a Managed Element may contain several managed functions. The ManagedFunction may be extended in the future if more common characteristics to functional objects are identified.

6.1.3.4.2. Attributes

Table 46: Attributes of ManagedFunction

Attribute Name	Support Qualifier
userLabel	M

6.1.3.5. ManagementNode

6.1.3.5.1. Definition

...

6.1.3.5.2 Attributes

Table 57: Attributes of ManagementNode

Attribute Name	Support Qualifier
managementNodeId	M
userLabel	M
VendorName	M
UserDefinedState	M
LocationName	M
swVersion	M

6.1.3.5.3 Notifications

Table 8: Notifications of ManagementNode

Name	Qualifier	Notes
notifyAckStateChanged	See Alarm IRP (3GPP TS 32.111-2 [11])	
notifyAttributeValueChange	O	
notifyChangedAlarm	See Alarm IRP (3GPP TS 32.111-2 [11])	
notifyClearedAlarm	See Alarm IRP (3GPP TS 32.111-2 [11])	
notifyNewAlarm	See Alarm IRP (3GPP TS 32.111-2 [11])	
notifyObjectCreation	O	
notifyObjectDeletion	O	
notifyComments	See Alarm IRP (3GPP TS 32.111-2 [11])	
notifyAlarmListRebuilt	See Alarm IRP (3GPP TS 32.111-2 [11])	

6.1.3.6 MeContext

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6.1.3.6.2 Attributes

Table 96: Attributes of MeContext

Attribute Name	Support Qualifier
meContextId	M
dnPrefix	C

6.1.3.6.3 Notifications

Table 10: Notifications of MeContext

Name	Qualifier	Notes
notifyAckStateChanged	See Alarm IRP (3GPP TS 32.111-2 [11])	
notifyAttributeValueChange	O	
notifyChangedAlarm	See Alarm IRP (3GPP TS 32.111-2 [11])	
notifyClearedAlarm	See Alarm IRP (3GPP TS 32.111-2 [11])	
notifyNewAlarm	See Alarm IRP (3GPP TS 32.111-2 [11])	
notifyObjectCreation	O	
notifyObjectDeletion	O	
notifyComments	See Alarm IRP (3GPP TS 32.111-2 [11])	
notifyAlarmListRebuilt	See Alarm IRP (3GPP TS 32.111-2 [11])	

6.1.3.7 SubNetwork

6.1.3.7.1 Definition

This information object class represents a set of managed entities as seen over the Itf-N.

There may be zero or more instances of a SubNetwork. It shall be present if either a ManagementNode or multiple ManagedElements are present (i.e. ManagementNode and multiple ManagedElement instances shall have SubNetwork as parent).

The SubNetwork instance not contained in any other instance of SubNetwork is referred to as "the root SubNetwork instance".

6.1.3.7.2 Attributes

Table 711: Attributes of SubNetwork

Attribute Name	Support Qualifier
subNetworkId	M
dnPrefix	C
UserLabel	M
userDefinedNetworkType	M

6.1.3.7.3 Notifications

Table 12: Notifications of SubNetwork

Name	Qualifier	Notes
notifyAckStateChanged	See Alarm IRP (3GPP TS 32.111-2 [11])	
notifyAttributeValueChange	O	
notifyChangedAlarm	See Alarm IRP (3GPP TS 32.111-2 [11])	
notifyClearedAlarm	See Alarm IRP (3GPP TS 32.111-2 [11])	
notifyNewAlarm	See Alarm IRP (3GPP TS 32.111-2 [11])	
notifyObjectCreation	O	
notifyObjectDeletion	O	
notifyComments	See Alarm IRP (3GPP TS 32.111-2 [11])	
notifyAlarmListRebuilt	See Alarm IRP (3GPP TS 32.111-2 [11])	

6.1.3.8 Top

6.1.3.8.1 Definition

....

6.1.3.8.2 Attributes

Table 813: Attributes of Top

Attribute Name	Support Qualifier
objectClass	M
objectInstance	M

6.1.3.9 Class VsDataContainer

6.1.3.9.1 Definition

...

6.1.3.9.2 Attribute

Table 914: Attributes of VsDataContainer

Name	Qualifier
vsDataContainerId	M
vsDataType	M
vsData	M
vsDataFormatVersion	M

End of Change in Clause 6.1.3

Change in Clause 6.1.4

6.1.4 Information relationship definitions

6.1.4.1 MgmtAssociation (M)

6.1.4.1.1 Definition

...

6.1.4.1.2 Roles

The roles involved in the relation MgmtAssociation are listed in this table.

Table 1015: Roles of the relation MgmtAssociation

Name	Definition
Manages	This role refers to a list of the DN(s) of the related ManagedElement instance(s). This is a reference attribute modelling the role (of the association MgmtAssociation) that this managementNode is responsible for managing zero or more MEs.
IsManagedBy	This role refers to the DN of the related managementNode instance. This is a reference attribute modelling the role (of the association MgmtAssociation) that this ME is managed by zero or one managementNode.

....

End of Change in Clause 6.1.4

Change in Clause 6.1.5

6.1.5 Information attribute definitions

6.1.5.1 Definitions and legal values

The table below defines the attributes that are present in several information object classes of this TS.

Table 4116: Attributes

Attribute Name	Definition	Legal Values
dnPrefix	It carries the DN Prefix information as defined in Annex C of 32.300 [13]. It shall only be specified if the instance of the information object class supporting this attribute is a local root instance of the MIB. Otherwise the value shall carry the NULL semantics.	
managedElementId	An attribute whose 'name+value' can be used as an RDN when naming an instance of the ManagedElement object class. This RDN uniquely identifies the object instance within the scope of its containing (parent) object instance.	
managedElementType	The type of managed element. It is a multi-valued attribute with one or more elements. Thus, it may represent one ME functionality, e.g. an RNC, or a combination of more than one functionality e.g. an MSC/HLR. The actual syntax and encoding of this attribute is Solution Set specific.	RNC, NodeB, BSS, MSC, HLR, VLR, AuC, EIR, SMS-IW MSC, SMS-GMSC, GMSC, SGSN, GGSN, BG, BS, CBC, CGF, GMLC, GMSC Server, IWF, MGW, MNP-SRF, MSC Server, NPDB, R-SGW, SCF, SMLC, SRF, SSF.
irpAgentId	An attribute whose 'name+value' can be used as an RDN when naming an instance of this object class. This RDN uniquely identifies the object instance within the scope of its containing (parent) object instance.	
irpId	An attribute whose 'name+value' can be used as an RDN when naming an instance of this object class. This RDN uniquely identifies the object instance within the scope of its containing (parent) object instance.	
locationName	The physical location of this entity (e.g. an address).	
managementNodeid	An attribute whose 'name+value' can be used as an RDN when naming an instance of this object class. This RDN uniquely identifies the object instance within the scope of its containing (parent) object instance.	
meContextId	An attribute whose 'name+value' can be used as an RDN when naming an instance of this object class. This RDN uniquely identifies the object instance within the scope of its containing (parent) object instance.	
objectClass	An attribute which captures the name of the class from which the object instance is an occurrence of.	
objectInstance	An information which captures the Distinguished Name of any object.	
subNetworkId	An attribute whose 'name+value' can be used as an RDN when naming an instance of the SubNetwork object class. This RDN uniquely identifies the object instance within the scope of its containing (parent) object instance.	
swVersion	The software version of the ManagementNode or ManagedElement (this is used for determining which version of the vendor specific information is valid for the ManagementNode or ManagedElement).	
systemDN	The Distinguished Name (DN) of IRPAgent. defined in 3GPP TS.32.300.	
userDefinedNetworkType	Textual information regarding the type of network, e.g. UTRAN.	
userDefinedState	An operator defined state for operator specific usage. (See also Note below)	
userLabel	A user-friendly name of this object.	
vendorName	The name of the vendor.	
vsData	Vendor specific attributes of the type vsDataType. The attribute definitions including constraints (value ranges, data types, etc.) are specified in a vendor specific data format file.	
vsDataContainerId	An attribute whose 'name+value' can be used as an RDN when naming an instance of this object class. This RDN uniquely identifies the object instance within the scope of its containing (parent) object instance.	
vsDataFormatVersion	Name of the data format file, including version.	
vsDataType	Type of vendor specific data contained by this instance, e.g. relation specific algorithm parameters, cell specific parameters for power control or re-selection or a timer. The type itself is also vendor specific.	

End of Change in Clause 6.1.5

Change in Clause 7

7 Mapping from IOCs to MOCs

7.1 IOC to MOC mapping

This table provides a mapping table between Information Object Classes and Managed Object Classes.

Table 4217: Information Object Class mapping

Information Object Class	Managed Object Class
GenericIRP	No mapping (GenericIRP is provided for subclassing only).
IRPAgent	IRPAgent
ManagedElement	ManagedElement
ManagedFunction	ManagedFunction
ManagementNode	ManagementNode
MeContext	MeContext
SubNetwork	SubNetwork
Top	No mapping (Top is provided for subclassing only)
No mapping due to different modelling approaches. Transient situation	BasicCmIRP
No mapping due to different modelling approaches. Transient situation	AlarmIRP
No mapping due to different modelling approaches. Transient situation	NotificationIRP

7.2 Information relationship mapping

This table provides a mapping table between Information Relationships and the Managed Object Classes model.

Table 4318: Information Relationship mapping

Information Relationship	Equivalent in the Managed Object Class Model
MgmtAssociation	MgmtAssociation
SubNetwork-ManagementNode	Mapped on naming / containment relationship.
SubNetwork-MeContext	Mapped on naming / containment relationship.
SubNetwork-SubNetwork	Mapped on naming / containment relationship.
SubNetwork-IRPAgent	Mapped on naming / containment relationship.
SubNetwork-ManagedElement	Mapped on naming / containment relationship.
MeContext-ManagedElement	Mapped on naming / containment relationship.
ManagedElement-IRPAgent	Mapped on naming / containment relationship.
IRPAgent-GenericIRP	Mapped on naming / containment relationship.

7.3 Information attribute mapping

This table provides a mapping table between Information Attributes and the Managed Object Classes model.

Table 1419: Information Attribute mapping

Information Relationship	Equivalent in the Managed Object Class Model
dnPrefix	dnPrefix
managedElementId	managedElementId
subNetworkId	subNetworkId
managedElementType	managedElementType
irpAgentId	irpAgentId
irpId	irpId
locationName	locationName
managementNodeId	managementNodeId
meContextId	meContextId
objectClass	No explicit mapping. Solution set dependent.
objectInstance	Managed object DN.
systemDN	systemDN
userDefinedState	userDefinedState
userLabel	userLabel
vendorName	vendorName

End of Change in Clause 7

Change in Clause 8.2.2

8.2.2 Managed Object Class (MOC) definitions

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8.2.2.1 MOC SubNetwork

This Managed Object Class represents a set of managed entities as seen over the Itf-N.

A SubNetwork may have 0...N instances. It shall be present if either a ManagementNode or multiple ManagedElements are present (i.e. ManagementNode and multiple ManagedElement instances shall have SubNetwork as parent).

If the configuration contains several instances of SubNetwork, exactly one SubNetwork instance shall directly or indirectly contain all the other SubNetwork instances.

The SubNetwork instance not contained in any other instance of SubNetwork is referred to as "the root SubNetwork instance".

Table 1520: Attributes of SubNetwork

Name	Qualifier	Description
subNetworkId	READ-ONLY, M	An attribute whose 'name+value' can be used as an RDN when naming an instance of the SubNetwork object class. This RDN uniquely identifies the object instance within the scope of its containing (parent) object instance.
dnPrefix	READ- ONLY, C	It carries the DN Prefix information as defined in Annex C of 32.300 [13]. It shall only be specified if the instance of SubNetwork is a local root instance of the MIB. Otherwise the value shall carry the NULL semantics.
userLabel	READ-WRITE, M	A user-friendly (and user assigned) name of the associated object.
userDefinedNetworkType	READ-ONLY, M	Textual information regarding the type of network, e.g. UTRAN.

Table 4621: Notifications of SubNetwork

Name	Qualifier	Notes
notifyAckStateChanged	See Alarm IRP (3GPP TS 32.111-2 [11])	
notifyAttributeValueChange	O	
notifyChangedAlarm	See Alarm IRP (3GPP TS 32.111-2 [11])	
notifyClearedAlarm	See Alarm IRP (3GPP TS 32.111-2 [11])	
notifyNewAlarm	See Alarm IRP (3GPP TS 32.111-2 [11])	
notifyObjectCreation	O	
notifyObjectDeletion	O	
notifyComments	See Alarm IRP (3GPP TS 32.111-2 [11])	
notifyAlarmListRebuilt	See Alarm IRP (3GPP TS 32.111-2 [11])	

8.2.2.2 MOC ManagedElement

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Table 4722: Attributes of ManagedElement

Name	Qualifier	Description
managedElementId	READ-ONLY, M	An attribute whose 'name+value' can be used as an RDN when naming an instance of the ManagedElement object class. This RDN uniquely identifies the object instance within the scope of its containing (parent) object instance.
dnPrefix	READ- ONLY, C	It carries the DN Prefix information as defined in Annex C of 32.300 [13]. It shall only be specified if the instance of ManagedElement is a local root instance of the MIB. Otherwise the value shall carry the NULL semantics.
managedElementType	READ-ONLY, M	The type of managed element. It is a multi-valued attribute with one or more elements. Thus, it may represent one ME functionality, e.g. an RNC, or a combination of more than one functionality e.g. an MSC/HLR. The allowed members of this attribute are: RNC, NodeB, BSS, MSC, HLR, VLR, AuC, EIR, SMS-IWMSC, SMS-GMSC, GMSC, SGSN, GGSN, BG, BS, CBC, CGF, GMLC, GMSC Server, IWF, MGW, MNP-SRF, MSC Server, NPDB, R-SGW, SCF, SMLC, SRF, SSF. The actual syntax and encoding of this attribute is Solution Set specific.
userLabel	READ-WRITE, M	A user-friendly name of this object.
vendorName	READ-ONLY, M	The name of the ManagedElement vendor.
userDefinedState	READ-WRITE, M	An operator defined state for operator specific usage. (See also Note below)
locationName	READ-ONLY, M	The physical location of this entity (e.g. an address).
swVersion	READ-ONLY, M	The software version of the ManagedElement (this is used for determining which version of the vendor specific information is valid for the ManagedElement).
managedBy	READ-ONLY, M	The value of this attribute shall be the DN of the related managementNode instance. This is a reference attribute modelling the role (of the association MgmtAssociation) that this ME is managed by 0-1 managementNode.
NOTE:		In addition to the userDefinedState, state management attributes are expected to be included in the next release.

Table 1223: Notifications of ManagedElement

Name	Qualifier	Notes
notifyAckStateChanged	See Alarm IRP (3GPP TS 32.111-2 [11])	
notifyAttributeValueChange	O	
notifyChangedAlarm	See Alarm IRP (3GPP TS 32.111-2 [11])	
notifyClearedAlarm	See Alarm IRP (3GPP TS 32.111-2 [11])	
notifyNewAlarm	See Alarm IRP (3GPP TS 32.111-2 [11])	
notifyObjectCreation	O	
notifyObjectDeletion	O	
notifyComments	See Alarm IRP (3GPP TS 32.111-2 [11])	
notifyAlarmListRebuilt	See Alarm IRP (3GPP TS 32.111-2 [11])	

8.2.2.3 MOC MeContext

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Table 1924: Attributes of MeContext

Name	Qualifier	Description
meContextId	READ-ONLY, M	An attribute whose 'name+value' can be used as an RDN when naming an instance of this object class. This RDN uniquely identifies the object instance within the scope of its containing (parent) object instance.
dnPrefix	READ- ONLY, C	It carries the DN Prefix information as defined in Annex C of 3GPP TS 32.300 [13]. It shall only be specified if the instance of MeContext is a local root instance of the MIB. Otherwise the value shall carry the NULL semantics.

Table 2025: Notifications of MeContext

Name	Qualifier	Notes
notifyAckStateChanged	See Alarm IRP (3GPP TS 32.111-2 [11])	
notifyAttributeValueChange	O	
notifyChangedAlarm	See Alarm IRP (3GPP TS 32.111-2 [11])	
notifyClearedAlarm	See Alarm IRP (3GPP TS 32.111-2 [11])	
notifyNewAlarm	See Alarm IRP (3GPP TS 32.111-2 [11])	
notifyObjectCreation	O	
notifyObjectDeletion	O	
notifyComments	See Alarm IRP (3GPP TS 32.111-2 [11])	
notifyAlarmListRebuilt	See Alarm IRP (3GPP TS 32.111-2 [11])	

8.2.2.4 MOC ManagementNode

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Table 2426: Attributes of ManagementNode

Name	Qualifier	Description
managementNodeId	READ-ONLY, M	An attribute whose 'name+value' can be used as an RDN when naming an instance of this object class. This RDN uniquely identifies the object instance within the scope of its containing (parent) object instance.
userLabel	READ-WRITE, M	A user-friendly name of this object.
vendorName	READ-ONLY, M	The name of the ManagementNode vendor.
userDefinedState	READ-WRITE, M	An operator defined state for operator specific usage.
locationName	READ-ONLY, M	The physical location of this entity (e.g. an address).
swVersion	READ-ONLY, M	The software version of the management node (this is used for determining which version of the vendor specific information is valid for the management node).
manages	READ-ONLY, M	The value of this attribute shall be a list of the DN(s) of the related ManagedElement instance(s). This is a reference attribute modelling the role (of the association MgmtAssociation) that this managementNode is responsible for managing 0-N MEs.

Table 2227: Notifications of ManagementNode

Name	Qualifier	Notes
notifyAckStateChanged	See Alarm IRP (3GPP TS 32.111-2 [11])	
notifyAttributeValueChange	O	
notifyChangedAlarm	See Alarm IRP (3GPP TS 32.111-2 [11])	
notifyClearedAlarm	See Alarm IRP (3GPP TS 32.111-2 [11])	
notifyNewAlarm	See Alarm IRP (3GPP TS 32.111-2 [11])	
notifyObjectCreation	O	
notifyObjectDeletion	O	
notifyComments	See Alarm IRP (3GPP TS 32.111-2 [11])	
notifyAlarmListRebuilt	See Alarm IRP (3GPP TS 32.111-2 [11])	

8.2.2.5 MOC ManagedFunction

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Table 2328: Attributes of ManagedFunction

Name	Qualifier	Description
userLabel	READ-WRITE, M	A user-friendly name of the associated object.

8.2.2.6 MOC IRPAgent

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Table 2429: Attributes of IRPAgent

Name	Qualifier	Description
irpAgentId	READ-ONLY, M	An attribute whose 'name+value' can be used as an RDN when naming an instance of this object class. This RDN uniquely identifies the object instance within the scope of its containing (parent) object instance.
systemDN	READ-ONLY, C	The Distinguished Name (DN) of IRPAgent. Defined in 3GPP TS 32.302 [3].

Table 2530: Notifications of IRPAgent

Name	Qualifier	Notes
notifyAckStateChanged	See Alarm IRP (3GPP TS 32.111-2 [11])	
notifyAttributeValueChange	O	
notifyChangedAlarm	See Alarm IRP (3GPP TS 32.111-2 [11])	
notifyClearedAlarm	See Alarm IRP (3GPP TS 32.111-2 [11])	
notifyNewAlarm	See Alarm IRP (3GPP TS 32.111-2 [11])	
notifyObjectCreation	O	
notifyObjectDeletion	O	
notifyComments	See Alarm IRP (3GPP TS 32.111-2 [11])	
notifyAlarmListRebuilt	See Alarm IRP (3GPP TS 32.111-2 [11])	

Note that these notifications are issued based on occurrences on the IRPAgent MOC and not on occurrences on other Basic CM IRP managed objects.

8.2.2.7 MOC VsDataContainer

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Table 2631: Attributes of VsDataContainer

Name	Qualifier	Description
vsDataContainerId	READ-ONLY, M	An attribute whose 'name+value' can be used as an RDN when naming an instance of this object class. This RDN uniquely identifies the object instance within the scope of its containing (parent) object instance.
vsDataType	READ-ONLY, M	Type of vendor specific data contained by this instance, e.g. relation specific algorithm parameters, cell specific parameters for power control or re-selection or a timer. The type itself is also vendor specific.
vsData	READ-WRITE, M	Vendor specific attributes of the type vsDataType. The attribute definitions including constraints (value ranges, data types, etc.) are specified in a vendor specific data format file.
vsDataFormatVersion	READ- ONLY,M	Name of the data format file, including version.

8.2.2.8 MOC NotificationIRP

This Managed Object Class represents the Notification IRP capability associated with each IRPAgent. At least one instance shall be present for every IRPAgent instance. Restriction in R4: Number of instances = 1.

Table 2732: Attributes of NotificationIRP

Name	Qualifier	Description
notificationIRPId	READ-ONLY, M	An attribute whose 'name+value' can be used as an RDN when naming an instance of this object class. This RDN uniquely identifies the object instance within the scope of its containing (parent) object instance.
irpVersion	READ-ONLY, M	One or more Notification IRP version entries.

8.2.2.9 MOC AlarmIRP

This Managed Object Class represents the Alarm IRP (see 3GPP TS 32.111-2 [11]) capability associated with each IRPAgent. Restriction in R4: Number of instances = 0..1.

Table 2833: Attributes of AlarmIRP

Name	Qualifier	Description
alarmIRPId	READ-ONLY, M	An attribute whose 'name+value' can be used as an RDN when naming an instance of this object class. This RDN uniquely identifies the object instance within the scope of its containing (parent) object instance.
irpVersion	READ-ONLY, M	One or more Alarm IRP (see 3GPP TS 32.111-2 [11]) version entries.

Table 2934: Notifications of AlarmIRP

Name	Qualifier	Notes
notifyAlarmListRebuilt	See Alarm IRP (3GPP TS 32.111-2 [11])	

8.2.2.10 MOC BasicCmIRP

This Managed Object Class represents the Basic CM IRP capability associated with each IRPAgent. Restriction in R4: Number of instances = 0..1.

Table 3035: Attributes of BasicCmIRP

Name	Qualifier	Description
basicCmIRPId	READ-ONLY, M	An attribute whose 'name+value' can be used as an RDN when naming an instance of this object class. This RDN uniquely identifies the object instance within the scope of its containing (parent) object instance.
irpVersion	READ-ONLY, M	One or more Basic CM IRP version entries.

8.2.2.11 MOC BulkCmIRP

This Managed Object Class represents the Bulk CM IRP capability associated with each IRPAgent. Restriction in Rel-4: Number of instances = 0..1.

Table 3136: Attributes of BulkCmIRP

Name	Qualifier	Description
bulkCmIRPId	READ-ONLY, M	An attribute whose 'name+value' can be used as an RDN when naming an instance of this object class. This RDN uniquely identifies the object instance within the scope of its containing (parent) object instance.
irpVersion	READ-ONLY, M	One or more Bulk CM IRP version entries.

Table 3237: Notifications of BulkCmIRP

Name	Qualifier	Notes
notifySessionStateChange	M	
notifySessionLogStatus	M	

End of Change in Clause 8.2.2
End of Document

CHANGE REQUEST

⌘ **32.622 CR 009** ⌘ rev **-** ⌘ Current version: **4.3.0** ⌘

*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

Title:	⌘ Correction of the log notification for Bulk CM - Alignment with 32.612		
Source:	⌘ S5		
Work item code:	⌘ OAM-CM	Date:	⌘ 11/04/2003
Category:	⌘ F	Release:	⌘ Rel-4
	Use <u>one</u> of the following categories: F (correction) A (corresponds to a correction in an earlier release) B (addition of feature), C (functional modification of feature) D (editorial modification) Detailed explanations of the above categories can be found in 3GPP TR 21.900 .		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)

Reason for change:	⌘ The log notification has a faulty name.
Summary of change:	⌘ The notification notifySessionLogEnded has been changed to notifyGetSessionLogEnded.
Consequences if not approved:	⌘ 32.622 would not be consistent with 32.612.

Clauses affected:	⌘ 8.2.2.11										
Other specs affected:	<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>	Y	N		X		X		X	Other core specifications Test specifications O&M Specifications	⌘
Y	N										
	X										
	X										
	X										
Other comments:	⌘										

How to create CRs using this form:

Change in Clause 8.2.2.11

8.2.2.11 MOC BulkCmIRP

This Managed Object Class represents the Bulk CM IRP capability associated with each IRP Agent. Restriction in Rel-4: Number of instances = 0..1.

Table 31: Attributes of BulkCmIRP

Name	Qualifier	Description
bulkCmIRPId	READ-ONLY, M	An attribute whose 'name+value' can be used as an RDN when naming an instance of this object class. This RDN uniquely identifies the object instance within the scope of its containing (parent) object instance.
irpVersion	READ-ONLY, M	One or more Bulk CM IRP version entries.

Table 32: Notifications of BulkCmIRP

Name	Qualifier	Notes
notifySessionStateChange	M	
notifyGetSessionLogEnded notifySessionLogStatus	M	

End of Change in 8.2.2.11 End of Document
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CHANGE REQUEST

⌘ **32.622 CR 008** ⌘ rev **-** ⌘ Current version: **5.0.0** ⌘

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

Title:	⌘ Correction of Notifications for IOCs		
Source:	⌘ SA5		
Work item code:	⌘ OAM-CM	Date:	⌘ 28/02/03
Category:	⌘ A	Release:	⌘ Rel-5
	<i>Use <u>one</u> of the following categories:</i> F (correction) A (corresponds to a correction in an earlier release) B (addition of feature), C (functional modification of feature) D (editorial modification) Detailed explanations of the above categories can be found in 3GPP TR 21.900 .		<i>Use <u>one</u> of the following releases:</i> 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)

Reason for change:	⌘ Notifications Missing
Summary of change:	⌘ Add missing notifications according updated IS Template in 32.102
Consequences if not approved:	⌘ Incorrect specification of which notifications apply to IOCs.

Clauses affected:	⌘ 6.1.3						
Other specs affected:	<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>	Y	N	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Other core specifications	⌘
	Y	N					
	<input type="checkbox"/>	<input checked="" type="checkbox"/>					
<input checked="" type="checkbox"/>	Test specifications						
<input checked="" type="checkbox"/>	O&M Specifications						
Other comments:	⌘ Rel-5 Mirror of Rel-4 CR attached in S5-036331.						

How to create CRs using this form:

Change in Clause 6.1.3

6.1.3 Information object class definitions

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6.1.3.2.3 Notifications

Table 3: Notifications of IRPAgent

Name	Qualifier	Notes
NotifyAckStateChanged	See Alarm IRP (3GPP TS 32.111-2 [11])	
NotifyAttributeValueChange	O	
NotifyChangedAlarm	See Alarm IRP (3GPP TS 32.111-2 [11])	
NotifyClearedAlarm	See Alarm IRP (3GPP TS 32.111-2 [11])	
NotifyNewAlarm	See Alarm IRP (3GPP TS 32.111-2 [11])	
NotifyObjectCreation	O	
NotifyObjectDeletion	O	
NotifyComments	See Alarm IRP (3GPP TS 32.111-2 [11])	
notifyAlarmListRebuilt	See Alarm IRP (3GPP TS 32.111-2 [11])	

Note that these notifications are issued based on occurrences on the IRPAgent MOC and not on occurrences on other Basic CM IRP managed objects.

6.1.3.3 ManagedElement

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6.1.3.3.3 Notifications

Table 5: Notifications of ManagedElement

Name	Qualifier	Notes
notifyAckStateChanged	See Alarm IRP (3GPP TS 32.111-2 [11])	
notifyAttributeValueChange	O	
notifyChangedAlarm	See Alarm IRP (3GPP TS 32.111-2 [11])	
notifyClearedAlarm	See Alarm IRP (3GPP TS 32.111-2 [11])	
notifyNewAlarm	See Alarm IRP (3GPP TS 32.111-2 [11])	
notifyObjectCreation	O	
notifyObjectDeletion	O	
notifyComments	See Alarm IRP (3GPP TS 32.111-2 [11])	
notifyAlarmListRebuilt	See Alarm IRP (3GPP TS 32.111-2 [11])	

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6.1.3.5 ManagementNode

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6.1.3.5.3 Notifications

Table 8: Notifications of ManagementNode

Name	Qualifier	Notes
NotifyAckStateChanged	See Alarm IRP (3GPP TS 32.111-2 [11])	
NotifyAttributeValueChange	O	
NotifyChangedAlarm	See Alarm IRP (3GPP TS 32.111-2 [11])	
NotifyClearedAlarm	See Alarm IRP (3GPP TS 32.111-2 [11])	
NotifyNewAlarm	See Alarm IRP (3GPP TS 32.111-2 [11])	
NotifyObjectCreation	O	
NotifyObjectDeletion	O	
NotifyComments	See Alarm IRP (3GPP TS 32.111-2 [11])	
notifyAlarmListRebuilt	See Alarm IRP (3GPP TS 32.111-2 [11])	

6.1.3.6 MeContext

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6.1.3.6.3 Notification

Table 10: Notifications of MeContext

Name	Qualifier	Notes
notifyAckStateChanged	See Alarm IRP (3GPP TS 32.111-2 [11])	
notifyAttributeValueChange	O	
notifyChangedAlarm	See Alarm IRP (3GPP TS 32.111-2 [11])	
notifyClearedAlarm	See Alarm IRP (3GPP TS 32.111-2 [11])	
notifyNewAlarm	See Alarm IRP (3GPP TS 32.111-2 [11])	
notifyObjectCreation	O	
notifyObjectDeletion	O	
notifyComments	See Alarm IRP (3GPP TS 32.111-2 [11])	
notifyAlarmListRebuilt	See Alarm IRP (3GPP TS 32.111-2 [11])	

6.1.3.7 SubNetwork

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6.1.3.7.3 Notification

Table 12: Notifications of SubNetwork

Name	Qualifier	Notes
notifyAckStateChanged	See Alarm IRP (3GPP TS 32.111-2 [11])	
notifyAttributeValueChange	O	
notifyChangedAlarm	See Alarm IRP (3GPP TS 32.111-2 [11])	
notifyClearedAlarm	See Alarm IRP (3GPP TS 32.111-2 [11])	
notifyNewAlarm	See Alarm IRP (3GPP TS 32.111-2 [11])	
notifyObjectCreation	O	
notifyObjectDeletion	O	
notifyComments	See Alarm IRP (3GPP TS 32.111-2 [11])	
notifyAlarmListRebuilt	See Alarm IRP (3GPP TS 32.111-2 [11])	

End of Change in Clause 6.1.3
End of Document