Technical Specification Group Services and System Aspects Meeting #19, Birmingham, UK, 17-20 March 2003

Source:	SA5 (Telecom Management)
Title:	2 Rel-4/5 CRs 32.632 (Configuration Management (CM); Core Network Resources IRP: Network Resource Model)
Document for:	Approval
Agenda Item:	7.5.3

Doc-1st- Level	Spec	CR	R e v	Phase	Subject	Cat	Ver- Curre nt	Doc-2nd- Level	Workitem
SP-030142	32.632	005	-	Rel-4	Change userLabel attribute from Read- Only to Read-Write	F	4.2.0	S5-036114	OAM-CM
SP-030142	32.632	006	-	Rel-5	CN Network Resource Model changed to the New Methodology - alignment with 32.102 (Telecommunication management; Architecture)	F	5.1.0	S5-036327	OAM-NIM

## 3GPP TSG-SA5 Meeting #32bis Sophia Antipolis, France, 20-24 January 2003

## **Tdoc #S5-036114**

	CHANGE REQUEST	CR-Form-v7			
ж	<mark>32.632</mark> CR <mark>005</mark>	Current version: <b>4.2.0</b> <sup>#</sup>			
For <u>HELP</u> on u	ing this form, see bottom of this page or look at the	рор-up text over the Ж symbols.			
Proposed change	fects: UICC apps# ME Radio Acc	ess Network X Core Network X			
Title: Ж	Change userLabel attribute from Read-Only to R	ead-Write			
Source: अ	S5				
Work item code: %	OAM-CM	<i>Date:</i>			
<i>Category:</i> ⊮	F       Jse one 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.	Release: #Rel-4Use one of the following releases:2(GSM Phase 2)R96R97(Release 1996)R97R98(Release 1998)R99Release 1999)Rel-4Release 4)Rel-5Release 5)Rel-6(Release 6)			
Reason for change	* The userLabel attribute needs to be both real Managed Function.	adable and writeable, as defined in			
Summary of chang Consequences if not approved:	** Change userLabel attribute from Read-Only * Inconsistent interfaces	to Read-Write			
Clauses affected:	# 6.3.1, 6.3.2, 6.3.3, 6.3.4, 6.3.5, 6.3.6, 6.3.7, 6.3 6.3.13, 6.3.14, 6.3.15, 6.3.16, 6.3.17, 6.3.18, 6. 6.3.24, 6.3.25	3.8, 6.3.9, 6.3.10, 6.3.11, 6.3.12, 3.19, 6.3.20, 6.3.21, 6.3.22, 6.3.23,			
Other specs affected:	YNXOther core specificationsXXTest specificationsXO&M Specifications				
Other comments:	ж				
low to create CRs using this form:					

Comprehensive information and tips about how to create CRs can be found at http://www.3gpp.org/specs/CR.htm. Below is a brief summary:

- 1) Fill out the above form. The symbols above marked # contain pop-up help information about the field that they are closest to.
- 2) Obtain the latest version for the release of the specification to which the change is proposed. Use the MS Word "revision marks" feature (also known as "track changes") when making the changes. All 3GPP specifications can be downloaded from the 3GPP server under ftp://ftp.3gpp.org/specs/ For the latest version, look for the directory name with the latest date e.g. 2001-03 contains the specifications resulting from the March 2001 TSG meetings.
- 3) With "track changes" disabled, paste the entire CR form (use CTRL-A to select it) into the specification just in front of the clause containing the first piece of changed text. Delete those parts of the specification which are not relevant to the change request.

## 6.3.1 MOC MscFunction

This Managed Object Class represents MSC functionality. For more information about the MSC, see 3GPP TS 23.002 [15].

It inherits from ManagedFunction.

#### Table 1: Attributes of MscFunction

Name	Qualifier	Description
mscFunctionId	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-	A user-friendly (and user assigned) name of the associated object. Inherited from
	WRITEREAD-	ManagedFunction.
	ONLY. M	

#### Table 2: Notifications of MscFunction

Name	Qualifier	Notes
notifyAckStateChanged	See Alarm IRP (3GPP TS 32.111-2 [11])	
notifyAttributeValueChange	0	
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	0	
notifyObjectDeletion	0	

## 6.3.2 MOC HlrFunction

This Managed Object Class represents HLR functionality. For more information about the HLR, see 3GPP TS 23.002 [15].

It inherits from ManagedFunction.

### Table 3: Attributes of HlrFunction

Name	Qualifier	Description
hlrFunctionId	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-	A user-friendly (and user assigned) name of the associated object. Inherited from
	WRITEREAD-	ManagedFunction.
	<del>ONLY</del> , M	

#### Table 4: Notifications of HlrFunction

Name	Qualifier	Notes
notifyAckStateChanged	See Alarm IRP (3GPP TS 32.111-2 [11])	
notifyAttributeValueChange	0	
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	0	
notifyObjectDeletion	0	

## 6.3.3 MOC VlrFunction

This Managed Object Class represents VLR functionality. For more information about the VLR, see 3GPP TS 23.002 [15].

It inherits from ManagedFunction.

### Table 5: Attributes of VlrFunction

Name	Qualifier	Description
vlrFunctionId	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-	A user-friendly (and user assigned) name of the associated object. Inherited from
	WRITEREAD-	ManagedFunction.
	ONLY, M	

#### Table 6: Notifications of VlrFunction

Name	Qualifier	Notes
notifyAckStateChanged	See Alarm IRP (3GPP TS 32.111-2 [11])	
notifyAttributeValueChange	0	
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	0	
notifyObjectDeletion	0	

## 6.3.4 MOC AucFunction

This Managed Object Class represents AUC functionality. For more information about the AUC, see 3GPP TS 23.002 [15].

It inherits from ManagedFunction.

### Table 7: Attributes of AucFunction

Name	Qualifier	Description
aucFunctionId	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	<u>READ-</u> <u>WRITE</u> READ- ONLY, M	A user-friendly (and user assigned) name of the associated object. Inherited from ManagedFunction.

#### Table 8: Notifications of AucFunction

Name	Qualifier	Notes
notifyAckStateChanged	See Alarm IRP (3GPP TS 32.111-2 [11])	
notifyAttributeValueChange	0	
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	0	
notifyObjectDeletion	0	

## 6.3.5 MOC EirFunction

This Managed Object Class represents EIR functionality. For more information about the EIR, see 3GPP TS 23.002 [15].

It inherits from ManagedFunction.

### Table 9: Attributes of EirFunction

Name	Qualifier	Description
eirFunctionId	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-	A user-friendly (and user assigned) name of the associated object. Inherited from
	WRITEREAD-	ManagedFunction.
	ONLY. M	

#### Table 10: Notifications of EirFunction

Name	Qualifier	Notes
notifyAckStateChanged	See Alarm IRP (3GPP TS 32.111-2 [11])	
notifyAttributeValueChange	0	
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	0	
notifyObjectDeletion	0	

## 6.3.6 MOC SmsIwmscFunction

This Managed Object Class represents SMS-IWMSC functionality. For more information about the SMS-IWMSC, see 3GPP TS 23.002 [15].

It inherits from ManagedFunction.

#### Table 11: Attributes of SmsIwmscFunction

Name	Qualifier	Description
SmsIwmscFunctionId	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- WRITEREAD- ONLY, M	A user-friendly (and user assigned) name of the associated object. Inherited from ManagedFunction.

#### Table 12: Notifications of SmsIwmscFunction

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Name	Qualifier	Notes
notifyAckStateChanged	See Alarm IRP (3GPP TS 32.111-2 [11])	
notifyAttributeValueChange	0	
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	0	
notifyObjectDeletion	0	

## 6.3.7 MOC SmsGmscFunction

This Managed Object Class represents SMS-GMSC functionality. For more information about the SMS-GMSC, see 3GPP TS 23.002 [15].

It inherits from ManagedFunction.

Table 13: Attributes of	SmsGmscFunction
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Name	Qualifier	Description	
SmsGmscFunctionId	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- WRITEREAD- ONLY. M	A user-friendly (and user assigned) name of the associated object. Inherited from ManagedFunction.	

#### Table 14: Notifications of SmsGmscFunction

Name	Qualifier	Notes
notifyAckStateChanged	See Alarm IRP (3GPP TS 32.111-2 [11])	
notifyAttributeValueChange	0	
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	0	
notifyObjectDeletion	0	

## 6.3.8 MOC GmscFunction

This Managed Object Class represents GMSC functionality. For more information about the GMSC, see 3GPP TS 23.002 [15].

It inherits from ManagedFunction.

#### Table 15: Attributes of GmscFunction

Name	Qualifier	Description	
gmscFunctionId	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	<u>READ-</u> WRITE <mark>READ-</mark> ONLY, M	A user-friendly (and user assigned) name of the associated object. Inherited from ManagedFunction.	

#### Table 16: Notifications of GmscFunction

Name	Qualifier	Notes
notifyAckStateChanged	See Alarm IRP (3GPP TS 32.111-2 [11])	
notifyAttributeValueChange	0	
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	0	
notifyObjectDeletion	0	

## 6.3.9 MOC SgsnFunction

This managed object class represents SGSN functionality. For more information about the SGSN, see 3GPP TS 23.002 [15].

It inherits from ManagedFunction.

#### Table 17: Attributes of SgsnFunction

Name	Qualifier	Description	
sgsnFunctionId	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- WRITEREAD- ONLY, M	A user-friendly (and user assigned) name of the associated object. Inherited from ManagedFunction.	

#### Table 18: Notifications of SgsnFunction

Name	Qualifier	Notes
notifyAckStateChanged	See Alarm IRP (3GPP TS 32.111-2 [11])	
notifyAttributeValueChange	0	
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	0	
notifyObjectDeletion	0	

## 6.3.10 MOC GgsnFunction

This Managed Object Class represents GGSN functionality. For more information about the GGSN, see 3GPP TS 23.002 [15].

It inherits from ManagedFunction.

#### Table 19: Attributes of GgsnFunction

Name	Qualifier	Description	
ggsnFunctionId	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- WRITEREAD- ONLY, M	A user-friendly (and user assigned) name of the associated object. Inherited from ManagedFunction.	

### Table 20: Notifications of GgsnFunction

Name	Qualifier	Notes
notifyAckStateChanged	See Alarm IRP (3GPP TS 32.111-2 [11])	
notifyAttributeValueChange	0	
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	0	
notifyObjectDeletion	0	

## 6.3.11 MOC BgFunction

This Managed Object Class represents BG functionality. For more information about the BG, see 3GPP TS 23.002 [15].

#### It inherits from ManagedFunction.

#### Table 21: Attributes of BgFunction

Name	Qualifier	Description
bgFunctionId	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- WRITEREAD- ONLY. M	A user-friendly (and user assigned) name of the associated object. Inherited from ManagedFunction.

#### Table 22: Notifications of BgFunction

Name	Qualifier	Notes
notifyAckStateChanged	See Alarm IRP (3GPP TS 32.111-2 [11])	
notifyAttributeValueChange	0	
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	0	
notifyObjectDeletion	0	

## 6.3.12 MOC SmlcFunction

This Managed Object Class represents SMLC functionality. For more information about the SMLC, see 3GPP TS 23.002 [15].

It inherits from ManagedFunction.

#### Table 52: Attributes of SmlcFunction

Name	Qualifier	Description
smlcFunctionId	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- WRITEREAD-	A user-friendly (and user assigned) name of the associated object. Inherited from ManagedFunction.

#### Table 53: Notifications of SmlcFunction

Name	Qualifier	Notes
notifyAckStateChanged	See Alarm IRP (3GPP TS 32.111-2 [11])	
notifyAttributeValueChange	0	
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	0	
notifyObjectDeletion	0	

## 6.3.13 MOC GmlcFunction

This Managed Object Class represents GMLC functionality. For more information about the GMLC, see 3GPP TS 23.002 [15].

#### Table 54: Attributes of GmlcFunction

Name	Qualifier	Description
gmlcFunctionId	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	<u>READ-</u> <u>WRITE</u> READ- ONLY, M	A user-friendly (and user assigned) name of the associated object. Inherited from ManagedFunction.

#### Table 55: Notifications of GmlcFunction

Name	Qualifier	Notes
notifyAckStateChanged	See Alarm IRP (3GPP TS 32.111-2 [11])	
notifyAttributeValueChange	0	
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	0	
notifyObjectDeletion	0	

## 6.3.14 MOC ScfFunction

This Managed Object Class represents SCF functionality (also referred to as gsmSCF). For more information about the SCF, see 3GPP TS 23.002 [15].

It inherits from ManagedFunction.

#### Table 56: Attributes of ScfFunction

Name	Qualifier	Description
scfFunctionId	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- WRITEREAD-	A user-friendly (and user assigned) name of the associated object. Inherited from ManagedFunction.

#### Table 57: Notifications of ScfFunction

Name	Qualifier	Notes
notifyAckStateChanged	See Alarm IRP (3GPP TS 32.111-2 [11])	
notifyAttributeValueChange	0	
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	0	
notifyObjectDeletion	0	

## 6.3.15 MOC SrfFunction

This Managed Object Class represents SRF functionality (also referred to as gsmSRF). For more information about the SRF, see 3GPP TS 23.002 [15].

#### Table 58: Attributes of SrfFunction

Name	Qualifier	Description
srfFunctionId	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	<u>READ-</u> <u>WRITEREAD-</u> <del>ONLY</del> , M	A user-friendly (and user assigned) name of the associated object. Inherited from ManagedFunction.

#### Table 59: Notifications of SrfFunction

Name	Qualifier	Notes
notifyAckStateChanged	See Alarm IRP (3GPP TS 32.111-2 [11])	
notifyAttributeValueChange	0	
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	0	
notifyObjectDeletion	0	

## 6.3.16 MOC CbcFunction

This Managed Object Class represents CBC functionality. For more information about the CBC, see 3GPP TS 23.002 [15].

It inherits from ManagedFunction.

#### Table 60: Attributes of CbcFunction

Name	Qualifier	Description
cbcFunctionId	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- WRITEREAD- ONLY M	A user-friendly (and user assigned) name of the associated object. Inherited from ManagedFunction.

#### Table 61: Notifications of CbcFunction

Name	Qualifier	Notes
notifyAckStateChanged	See Alarm IRP (3GPP TS 32.111-2 [11])	
notifyAttributeValueChange	0	
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	0	
notifyObjectDeletion	0	

## 6.3.17 MOC CgfFunction

This Managed Object Class represents CGF functionality. For more information about the CGF, see 3GPP TS 23.060 [18].

#### Table 64: Attributes of CgfFunction

Name	Qualifier	Description
cgfFunctionId	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	<u>READ-</u> <u>WRITE</u> READ- ONLY, M	A user-friendly (and user assigned) name of the associated object. Inherited from ManagedFunction.

#### Table 65: Notifications of CgfFunction

Name	Qualifier	Notes
notifyAckStateChanged	See Alarm IRP (3GPP TS 32.111-2 [11])	
notifyAttributeValueChange	0	
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	0	
notifyObjectDeletion	0	

## 6.3.18 MOC MgwFunction

This Managed Object Class represents MGW functionality. For more information about MGW, see 3GPP TS 23.002 [15].

It inherits from ManagedFunction.

#### Table 66: Attributes of MgwFunction

Name	Qualifier	Description
mgwFunctionId	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- WRITEREAD-	A user-friendly (and user assigned) name of the associated object. Inherited from ManagedFunction.

#### Table 67: Notifications of MgwFunction

Name	Qualifier	Notes
notifyAckStateChanged	See Alarm IRP (3GPP TS 32.111-2 [11])	
notifyAttributeValueChange	0	
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	0	
notifyObjectDeletion	0	

## 6.3.19 MOC GmscServerFunction

This Managed Object Class represents GMSCServer functionality. For more information about GMSCServer, see 3GPP TS 23.002 [15].

Name	Qualifier	Description
gmscServerFunc tionId	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	<u>READ-</u> WRITE <mark>READ-</mark> ONLY, M	A user-friendly (and user assigned) name of the associated object. Inherited from ManagedFunction.

#### Table 70: Attributes of GmscServerFunction

#### Table 71: Notifications of GmscServerFunction

Name	Qualifier	Notes
notifyAckStateChanged	See Alarm IRP (3GPP TS 32.111-2 [11])	
notifyAttributeValueChange	0	
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	0	
notifyObjectDeletion	0	

## 6.3.20 MOC IwfFunction

This Managed Object Class represents IWF functionality. For more information about IWF, see 3GPP TS 23.002 [15].

It inherits from ManagedFunction.

#### Table 76: Attributes of IwfFunction

Name	Qualifier	Description	
iwfFunctionId	READ-ONLY, M	An attribute whose 'name+value' can be used as an RDN when naming an	
		nstance of this object class. This RDN uniquely identifies the object instance within	
		the scope of its containing (parent) object instance.	
userLabel	READ-	A user-friendly (and user assigned) name of the associated object. Inherited from	
	WRITEREAD-	ManagedFunction.	
	ONLY. M		

#### Table 77: Notifications of IwfFunction

Name	Qualifier	Notes
notifyAckStateChanged	See Alarm IRP (3GPP TS 32.111-2 [11])	
notifyAttributeValueChange	0	
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	0	
notifyObjectDeletion	0	

## 6.3.21 MOC MnpSrfFunction

This Managed Object Class represents MNP-SRF functionality (also known as FNR). For more information about MNP-SRF, see 3GPP TS 23.002 [15].

#### Table 78: Attributes of MnpSrfFunction

Name	Qualifier	Description	
mnpSrfFunction	READ-ONLY, M	An attribute whose 'name+value' can be used as an RDN when naming an	
Id		the scope of its containing (parent) object instance.	
userLabel	<u>READ-</u> WRITE <mark>READ-</mark>	A user-friendly (and user assigned) name of the associated object. Inherited from ManagedFunction.	
	<del>ONLY</del> , M		

#### Table 79: Notifications of MnpSrfFunction

Name	Qualifier	Notes
notifyAckStateChanged	See Alarm IRP (3GPP TS 32.111-2 [11])	
notifyAttributeValueChange	0	
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	0	
notifyObjectDeletion	0	

## 6.3.22 MOC NpdbFunction

This Managed Object Class represents NPDB functionality. For more information about NPDB, see 3GPP TS 23.002 [15].

It inherits from ManagedFunction.

#### Table 80: Attributes of NpdbFunction

Name	Qualifier	Description
npdbFunctionId	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- WRITEREAD- ONLY M	A user-friendly (and user assigned) name of the associated object. Inherited from ManagedFunction.

#### Table 81: Notifications of NpdbFunction

Name	Qualifier	Notes
notifyAckStateChanged	See Alarm IRP (3GPP TS 32.111-2 [11])	
notifyAttributeValueChange	0	
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	0	
notifyObjectDeletion	0	

## 6.3.23 MOC SgwFunction

This Managed Object Class represents SGW functionality. For more information about SGW, see 3GPP TS 23.002 [15].

#### Table 82: Attributes of SgwFunction

Name	Qualifier	Description	
sgwFunctionId	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	<u>READ-</u> <u>WRITE</u> READ- ONLY, M	A user-friendly (and user assigned) name of the associated object. Inherited from ManagedFunction.	

#### Table 83: Notifications of SgwFunction

Name	Qualifier	Notes
notifyAckStateChanged	See Alarm IRP (3GPP TS 32.111-2 [11])	
notifyAttributeValueChange	0	
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	0	
notifyObjectDeletion	0	

## 6.3.24 MOC SsfFunction

This Managed Object Class represents SSF functionality. For more information about SSF, see 3GPP TS 23.002 [15].

It inherits from ManagedFunction.

#### Table 84: Attributes of SsfFunction

Name	Qualifier	Description	
ssfFunctionId	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-	A user-friendly (and user assigned) name of the associated object. Inherited from	
	WRITEREAD-	ManagedFunction.	
	ONLY. M		

### Table 85: Notifications of SsfFunction

Name	Qualifier	Notes
notifyAckStateChanged	See Alarm IRP (3GPP TS 32.111-2 [11])	
notifyAttributeValueChange	0	
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	0	
notifyObjectDeletion	0	

## 6.3.25 MOC BsFunction

This Managed Object Class represents BS functionality. For more information about BS, see 3GPP TS 23.060 [18].

#### Table 86: Attributes of BsFunction

Name	Qualifier	Description
bsFunctionId	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	<u>READ-</u> <u>WRITE</u> READ- ONLY, M	A user-friendly (and user assigned) name of the associated object. Inherited from ManagedFunction.

#### Table 87: Notifications of BsFunction

Name	Qualifier	Notes
notifyAckStateChanged	See Alarm IRP (3GPP TS 32.111-2 [11])	
notifyAttributeValueChange	0	
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	0	
notifyObjectDeletion	0	

### 3GPP TSG-SA5 (Telecom Management) Meeting #33, Phoenix, USA, 24-28 February 2003

### S5-036327

CHANGE REQUEST				
¥	<b>32.632</b> CR 006 <b># rev</b> - <b>#</b> Current version: <b>5.1.0 #</b>			
For <u>HELP</u> on u	sing this form, see bottom of this page or look at the pop-up text over the $#$ symbols.			
Proposed change a	affects: UICC apps# ME Radio Access Network Core Network X			
Title: Ж	CN Network Resource Model changed to the New Methodology - alignment with 32.102 (Telecommunication management; Architecture)			
Source: अ	S5			
Work item code: Ж	OAM-NIM Date: # 28/02/2003			
Category: ⊮	FRelease: %Rel-5Use one of the following categories:Use one of the following releases:F (correction)2A (corresponds to a correction in an earlier release)R96B (addition of feature),R97C (functional modification of feature)R98D (editorial modification)R99D (editorial modification)R99D tetailed explanations of the above categories canRel-4be found in 3GPP TR 21.900.Rel-5Rel-6(Release 6)			
Reason for change Summary of chang	<ul> <li>* The model for the Core Network needs to be specified using the new methodology as defined in TS 32.102.</li> <li>* The structure of this specification has been changed in accordance with TS 32.102. Unused abbreviations and definitions have been removed.</li> </ul>			
Consequences if not approved:	His document would not comply with TS 32.102.			
Clauses affected:	Clauses 3 to 6.			
Other specs affected:	Y       N         %       X         Other core specifications       %         X       Test specifications         X       O&M Specifications			
Other comments:	Here and the second			

#### How to create CRs using this form:

Comprehensive information and tips about how to create CRs can be found at <u>http://www.3gpp.org/specs/CR.htm</u>. Below is a brief summary:

- 1) Fill out the above form. The symbols above marked **#** contain pop-up help information about the field that they are closest to.
- 2) Obtain the latest version for the release of the specification to which the change is proposed. Use the MS Word "revision marks" feature (also known as "track changes") when making the changes. All 3GPP specifications can be downloaded from the 3GPP server under <u>ftp://ftp.3gpp.org/specs/</u> For the latest version, look for the directory name with the latest date e.g. 2001-03 contains the specifications resulting from the March 2001 TSG meetings.
- 3) With "track changes" disabled, paste the entire CR form (use CTRL-A to select it) into the specification just in front of the clause containing the first piece of changed text. Delete those parts of the specification which are not relevant to the change request.

# 3 Definitions and abbreviations

## 3.1 Definitions

For the purposes of the present document, the following terms and definitions apply. For terms and definitions not found here, please refer to 3GPP TS 32.101 [1], 3GPP TS 32.102 [2] and 3GPP TS 32.600 [14].

Association: In general it is used to model relationships between Managed Objects. Associations can be implemented in several ways, such as:

- (1) <u>name bindings</u>,
- (2) reference attributes, and
- (3) association objects.

This IRP stipulates that containment associations shall be expressed through name bindings, but it does not stipulate the implementation for other types of associations as a general rule. These are specified as separate entities in the object models (UML diagrams). Currently (in R99) however, all (non containment) associations are modelled by means of reference attributes of the participating MOs.

Managed Element (ME): An instance of the Managed Object Class ManagedElement defined in [16].

**Managed Object (MO)**: In the context of the present document, a Managed Object (MO) is a software object that encapsulates the manageable characteristics and behaviour of a particular Network Resource. The MO is instance of a MO class defined in a MIM/NRM. An MO class This class, called Information Object Class (IOC) has attributes that provide information used to characterize the objects that belong to the class (the term "attribute" is taken from TMN and corresponds to a "property" according to CIM). Furthermore, an MO class the IOC can have operations that represent the behaviour relevant for that class (the term "operation" is taken from TMN and corresponds to a "method" according to CIM). An MO class The IOC may support the emission of notifications that provide information about an event occurrence within a network resource. Management Information Base (MIB): A MIB is an instance of an NRM and has some values on the defined attributes and associations specific for that instance. In the context of the present document, an MIB consists of:

(1)a Name space (describing the MO containment hierarchy in the MIB through Distinguished Names),

(2)a number of Managed Objects with their attributes and

(3)a number of Associations between these MOs. Also note that TMN (ITU T Recommendation X.710 [7]) defines a concept of a <u>Management Information Tree</u> (also known as a Naming Tree) that corresponds to the name space (containment hierarchy) portion of this MIB definition. Figure 1 depicts the relationships between a Name space and a number of participating MOs (the shown association is of a non-containment type)



Figure 1: Relationships between a Name space and a number of participating MOs

Management Information Model (MIM): Also referred to as NRM – see the definition below.

**Name space**: A name space is a collection of names. The IRP name convention (see 3GPP TS 32.300 [13]) restricts the name space to a hierarchical containment structure, including its simplest form—the one level, flat name space.

All Managed Objects in a MIB shall be included in the corresponding name space and the MIB/name space shall only support a strict hierarchical containment structure (with one root object). A Managed Object that contains another is said to be the superior (parent); the contained Managed Object is referred to as the subordinate (child). The parent of all MOs in a single name space is called a Local Root. The ultimate parent of all MOs of all managed systems is called the Global Root.

**Network Resource Model (NRM)**: A model representing the actual managed telecommunications network resources that a System is providing through the subject IRP. An NRM <u>identifies and</u> describes <u>Managed Object Classes</u><u>IOCs</u>, their associations, attributes and operations. The NRM is also referred to as "MIM" (see above), which originates from the ITU-T TMN.

**Node B:** A logical node responsible for radio transmission/reception in one or more cells to/from the User Equipment. It terminates the Iub interface towards the RNC.

# 3.2 Abbreviations

I

For the purposes of	the present document, the following abbreviations apply:
AUC	AUthentication Centre
BG	Border Gateway
BS	Billing System
CBC	Cell Broadcast Center
CGF	Charging Gateway Functionality
CMIP	Common Management Information Protocol
CMIS	Common Management Information Service
CN	Core Network
CORBA	-Common Object Request Broker Architecture
DMTF	Distributed Management Task Force
DN	Distinguished Name (see 3GPP TS 32.300 [13])
EIR	Equipment Identity Register
EM	Element Manager
FM	Fault Management
FNR	Flexible Number Register
GDMO	Guidelines for the Definition of Managed Objects
GGSN	Gateway GPRS Support Node
GMLC	Gateway Mobile Location Center
GMSC	Gateway MSC
GMSC Server	Gateway MSC Server
GPRS	General Packet Radio System
HLR	Home Location Register
IDL	Interface Definition Language
<del>IEC</del>	International Electro technical Commission
IETF	Internet Engineering Task Force
IOC	Information Object Class
IRP	Integration Reference Point
ISO/IEC	International Standards Organization
ITU-T	International Telecommunication Union, Telecommunication Sector
IWF	Interworking Function
NM	Network Manager
NE	Network Element
ME	Managed Element
MGW	Media Gateway
MIB	-Management Information Base
MIM	Management Information Model
MIT	-Management Information Tree (or Naming Tree)
MNP-SRF	Mobile Number Portability/Signalling Relay Function
MO	Managed Object
MOC	-Managed Object Class
MOI	Managed Object Instance
MSC	Mobile Services Switching Centre
MSC Server	Mobile Services Switching Centre Server
NE	Network Element
NPDB	Number Portability Database
NR	Network Resource
NRM	Network Resource Model
OSI	Open Systems Interconnection
PM	Performance Management
RDN	Relative Distinguished Name (see 3GPP TS 32.300 [13])
SGW	Signalling Gateway
SCF	Service Control Function
SGSN	Serving GPRS Support Node
SMLC	Serving Mobile Location Center
SMS	Short Message Service
SMS-GMSC	SMS Gateway MSC
SMS-IWMSC	SMS Interworking MSC
SNMP	Simple Network Management Protocol

SRF	Specialised Resource Function
<del>SS</del>	
SSF	Service Switching Function
TMN	Telecommunications Management Network
UML	Unified Modelling Language
UMTS	Universal Mobile Telecommunications System
UTRAN	UMTS Terrestrial Radio Access Network
VLR	Visitor Location Register
WBEM	Web Based Enterprise Management
XML	eXtensible Mark up Language

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# 4 System overview

# 4.1 System context

Figure 4.1 and 4.2 identify system contexts of the IRP defined by the present document in terms of its implementation called IRPAgent and the user of the IRPAgent, called IRPManager. For a definition of IRPManager and IRPAgent, see 3GPP TS 32.102 [2].

The IRPAgent implements and supports this IRP. The IRPAgent can reside in an Element Manager (EM; for definition see 3GPP TS 32.101 [1]) or a Network Element (NE) (see also [2] clause 8). In the former case, the interfaces (represented by a thick dotted line) between the EM and the NEs is not the subject of this IRP.

An IRPManager using this IRP shall choose one of the two System Contexts defined here, for each NE. For instance, if an EM is responsible for managing a number of NEs, the NM shall access this IRP through the EM and not directly to those NEs. For another IRP though, the System Context may be different.



Figure 4.2: System Context B

Figure and Figure identify system contexts of the subject IRP in terms of its implementation called IRPAgent and the user of the IRPAgent, called IRPManager. For a definition of IRPManager and IRPAgent, see 3GPP TS 32.102 [2]. The IRPAgent implements and supports the Basic CM IRP. The IRPAgent can be an Element Manager (EM) or a mediator that interfaces one or more NEs (see Figure), or it can be a Network Element (NE) (see Figure). In the former case, the interfaces (represented by a thick dotted line) between the EM and the NEs are not subject of this IRP. An IRPManager using this IRP shall choose one of the two System Contexts defined here, for each NE. For instance, if an EM is responsible for managing a number of NEs, the NM shall access this IRP through the EM and not directly to those NEs. For another IRP though, the System Context may be different.



# 4.2 Compliance rules

For general definitions of compliance rules related to qualifiers (Mandatory/Optional/Conditional) for *operations*, *notifications* and parameters (of operations and notifications) please refer to 3GPP TS 32.102 [2].

The following defines the meaning of Mandatory and Optional IOC attributes and associations between IOCs, in Solution Sets to the IRP defined by the present document:

- <u>The IRPManager shall support all mandatory attributes/associations. The IRPManager shall be prepared to receive</u> information related to mandatory as well as optional attributes/associations without failure; however the IRPManager does not have to support handling of the optional attributes/associations.
- The IRPAgent shall support all mandatory attributes/associations. It may support optional attributes/associations.

An IRPAgent that incorporates vendor-specific extensions shall support normal communication with a 3GPP SA5-compliant IRPManager with respect to all Mandatory and Optional information object classes, attributes, associations, operations, parameters and notifications without requiring the IRPManager to have any knowledge of the extensions. Given that

<u>rules for vendor-specific extensions remain to be fully specified, and</u>

• many scenarios under which IRPManager and IRPAgent interwork may exist,

it is recognised that in Release 4/5 the IRPManager, even though it is not required to have knowledge of vendor-specific extensions, may be required to be implemented with an awareness that extensions can exist and behave accordingly. For general definitions of compliance rules related to qualifiers (Mandatory/Optional/Conditional) for *operations, notifications and parameters* (of operations and notifications) please refer to 3GPP TS 32.102 [2]. The following defines the meaning of Mandatory and Optional MOC attributes and associations between MOCs, in Solution

Sets to the Basic CM IRP:

- The IRPManager shall support all mandatory attributes/associations. The IRPManager shall be prepared to receive information related to mandatory as well as optional attributes/associations without failure; however the IRPManager does not have to support handling of the optional attributes/associations.
- The IRPAgent shall support all mandatory attributes/associations. It may support optional attributes/associations.

An IRPAgent that incorporates vendor specific extensions shall support normal communication with a 3GPP SA5 compliant IRPManager with respect to all Mandatory and Optional managed object classes, attributes, associations, operations, parameters and notifications without requiring the IRPManager to have any knowledge of the extensions. Given that

-rules for vendor specific extensions remain to be fully specified, and

-many scenarios under which IRPManager and IRPAgent interwork may exist,

it is recognised that in Release 4/5 the IRPManager, even though it is not required to have knowledge of vendor specific extensions, may be required to be implemented with an awareness that extensions can exist and behave accordingly.

5 Modelling approach

The modelling approach is described in the Generic Network Resources IRP: NRM [16]. It should be noted that this model allows for combined managed element functionality, where more than one 'function IOCs' (inherited from ManagedFunction) modelling more specific managed element functionality may be contained in the ManagedElement IOC.

# 6 IRP Information Model

# 6.1 Introduction 6.1 Information entities imported and local labels

#### None.

As already introduced in the previous clause, the present clause defines the Core Network Resources IRP: Network Resource Model. That is, this model defines CN specific MOCs that shall be contained under the generic MOCs defined in [16]. The managed object classes in this NRM are protocol environment neutral and the model does not define the syntax or encoding of the operations and parameters.

It should be noted that this model allows for combined managed element functionality, where more than one 'function MOCs' (inherited from ManagedFunction) modelling more specific managed element functionality may be contained in the ManagedElement MOC.

The Information Service(s) to access managed objects of this NRM is defined elsewhere.

The corresponding Solution Set specifications provide protocol dependent definitions. They provide the actual realization of the operations and notifications defined in this subclause in each protocol environment. One may find that the class/attribute definitions in the protocol neutral model differ from those defined in the Solution Sets (e.g. due to mappings to existing standard models that are applicable for a specific Solution Set).

# 6.2 <u>Class diagrams</u>Managed Object Class (MOC) diagrams

A general note regarding all the notification tables defined for each MOC below: Each MOC may potentially send the notifications listed in the notification table for the MOC. The notifications with qualifier (M) shall be supported by the MOC, and the notifications with qualifier (O) may be supported by the MOC.

For example: If Notification notifyObjectCreation defined in Basic CM IRP has the qualifier (M), then if a MOC is defined such that it emits such a notification, this notification shall be emitted when appropriate (i.e. when a new object is created). If Notification notifyChangedAlarm has the qualifier (O) in Alarm IRP (see 3GPP TS 32.111 2 [11]), then if a MOC is defined such that it emits such a notification, this notification may or may not be emitted when appropriate.

Further, if a notification in the qualifier column (of the MOC notification tables) has a reference to another specification, it means that the qualifier for the notification is specified in the referred specification.

## 6.2.1 Attributes and relationships

This sub-clause depicts the set of IOCs that encapsulate information relevant for this service. This sub-clause provides the overview of all information object classes in UML. Subsequent sub-clauses provide more detailed specification of various aspects of these information object classes.

Figures 6.2.1.1 to 6.2.1.5 show the name-containment relation and other types of relations of the CN NRM.

- <u>NOTE:</u> The name-containment relations between IOCs are indicated by UML "unidirectional aggregation by reference" ("hollow diamonds").
- NOTE: The listed cardinality numbers represent transient as well as steady-state numbers, and reflect all managed object creation and deletion scenarios.



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Figure 6.2.1.1: CN NRM Containment/Naming and Association diagram 1



Figure 6.2.1.2: CN NRM Containment/Naming and Association diagram 2

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Figure 6.2.1.3: CN UTRAN NRM Containment/Naming and Association diagram 3

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NOTE 1: The association between MscServer and GsmCell, and SgsnFunction and GsmCell is optional. It may be valid if both the MscServer and GsmCell, or SgsnFunction and GsmCell are managed by the same management node.

NOTE 2: The association between MscServer and CsMgwFunction is optional and is only mandatory when they belong to different ManagedElements.

#### Figure 6.2.1.4: CN GERAN NRM Containment/Naming and Association diagram 4

Each Managed Object is identified with a Distinguished Name (DN) according to 3GPP TS 32.300 [13] that expresses its containment hierarchy. As an example, the DN of a Managed Object representing a cell could have a format like: SubNetwork=Sweden,MeContext=MEC-Gbg-1,ManagedElement=MSC-Gbg-1,MscServerFunction=MSC-1.

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NOTE: Each instance of the vsDataContainer shall only be contained under one IOC. The vsDataContainer can be contained under IOCs defined in other NRMs.

### Figure 6.2.1.5: vsDataContainer Containment/Naming and Association in CN NRM

The vsDataContainer is only used for the Bulk CM IRP.

## 6.2.2 Inheritance

This sub-clause depicts the inheritance relationships that exist between IOCs.

Figures 6.2.2.1 and 6.2.2.2 show the inheritance hierarchy for the CN NRM.



Figure 6.2.2.1: CN NRM Inheritance Hierarchy 1

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#### Figure 6.2.2.2: CN NRM Inheritance Hierarchy 2

# 6.2.1 Inheritance hierarchy

#### Figures 4 and 5 show the inheritance hierarchy for the CN NRM.



#### Figure 4: CN NRM Inheritance Hierarchy 1



### Figure 5: CN NRM Inheritance Hierarchy 2

# 6.2.2 Containment/Naming and Association diagrams

#### Figures 6, 7, 8, 9 and 10 show the containment/naming hierarchy and the associations of the CN NRM.

NOTE: The Managed Object containment/naming relationships are in the diagram(s) below indicated by UML "Aggregation by reference" ("hollow diamonds").



NOTE: The listed cardinality numbers represent transient as well as steady-state numbers, and reflect all managed object creation and deletion scenarios.

Figure 6: CN NRM Containment/Naming and Association diagram 1



Figure 7: CN NRM Containment/Naming and Association diagram 2







Each Managed Object is identified with a Distinguished Name (DN) according to 3GPP TS 32.300 [13] that expresses its containment hierarchy. As an example, the DN of a Managed Object representing a cell could have a format like: SubNetwork=Sweden,MeContext=MEC Gbg 1,ManagedElement=MSC Gbg 1,MscServerFunction=MSC 1.

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#### Figure 10: vsDataContainer Containment/Naming and Association in CN NRM

The vsDataContainer is only used for the Bulk CM IRP.

## 6.3 <u>Information Object Classes definition</u>Managed Object Class (MOC) definitions

## 6.3.1 MOC-MscServerFunction

### 6.3.1.1 Definition

This Managed Object ClassIOC represents MSCserver functionality. For more information about the MSC, see 3GPP TS 23.002 [15]. It inherits from ManagedFunction.

**Attributes** 

6.3.1.2

#### Support **Write** Read Qualifier Qualifier Visibility Attribute name Qualifer mscServerFunctionId М М + М userLabel + М М М М mccList + М М mncList М М lacList М М М + М М М sacList + gcaList + 0 М М

#### Table 1: Attributes of MscServerFunction

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mscId	+	M	Μ	М
mscServerFunction- GSMcell	+	M	M	-
mscServerFunction- ExternalGSMcell	+	M	M	
mscServerFunction- CsMgwFunction	+	M	M	

Name	Qualifier	Description
mscServerFunct	READ-ONLY, M	An attribute whose 'name+value' can be used as an RDN when naming an
<del>ionId</del>		instance of this object class. This RDN uniquely identifies the object instance within
		the scope of its containing (parent) object instance.
<del>userLabel</del>	READ- WRITE,	A user-friendly (and user assigned) name of the associated object. Inherited from
	M	ManagedFunction.
mecList	READ-WRITE,M	List of Mobile Country Codes, MCC. It is a part of the PLMN Id (Ref. 3
		GPP TS 23.003 [3]).
mncList	READ-WRITE,M	List of Mobile Network Codes, MNC. It is a part of the PLMN Id (Ref. 3
		GPP TS 23.003 [3]).
<del>lacList</del>	READ-WRITE,M	List of Location Area Codes covered by MSC (Ref. 3 GPP TS 23.003 [3]).
<del>sacList</del>	READ-WRITE,M	List of Service Area Codes covered by MSC (Ref. 3 GPP TS 23.003 [3]).
<del>gcaList</del>	READ-WRITE,O	List of Group Call Area (Ref. 3 GPP TS 23.003 [3]).
<del>mscId</del>	READ-WRITE,M	Unique MSC ID (Ref. 3 GPP TS 23.002).
mscServerFunct	READ-ONLY,M	The value of this attribute shall be the DN of the related GSMcell instance. This is a
ion-CSMcell		reference attribute modelling the role (of the association AssociatedWith) that this
		MscServerFunction is associated with to 0-* GSMcell.
mscServerFunct	READ-ONLY,M	The value of this attribute shall be the DN of the related ExternalGSMcell instance.
ion-		This is a reference attribute modelling the role (of the association AssociatedWith)
ExternalGSMcel		that this MscServerFunction is associated with to 0-* ExternalGSMcell.
÷		
mscServerFunct	READ- ONLY,M	The value of this attribute shall be the DN of the related CsMgwFunction instance.
ion-		This is a reference attribute modelling the role (of the association AssociatedWith)
CsMgwFunction		that this MscServerFunction is associated with to 0-* CsMgwFunction.

#### Table 2: Notifications of MscServerFunction

Name	Qualifier	Notes
notifyAckStateChanged	See Alarm IRP (3GPP TS 32.111-2 [11])	
notifyAttributeValueChange	0	
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	0	
notifyObjectDeletion	0	

## 6.3.2 MOC-HlrFunction

## 6.3.2.1 Definition

This Managed Object Class<u>IOC</u> represents HLR functionality. For more information about the HLR, see 3GPP TS 23.002 [15]. It inherits from ManagedFunction.

### 6.3.2.2 Attributes

#### Table 3: Attributes of HlrFunction

Attribute name	<u>Visibility</u>	<u>Support</u> Qualifier	<u>Read</u> Qualifer	<u>Write</u> Qualifier
hlrFunctionId	+	Μ	M	-

userLabel	+	М	М	М

Name	<b>Qualifier</b>	<b>Description</b>
hlrFunctionId	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.
<del>userLabel</del>	READ- WRITE, M	A user-friendly (and user assigned) name of the associated object. Inherited from
		ManagedFunction.

#### Table 4: Notifications of HlrFunction

Name	Qualifier	Notes
notifyAckStateChanged	See Alarm IRP (3GPP TS 32.111-2 [11])	
notifyAttributeValueChange	0	
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	0	
notifyObjectDeletion	0	

## 6.3.3 MOC-VlrFunction

## 6.3.3.1 Definition

This Managed Object Class<u>IOC</u> represents VLR functionality. For more information about the VLR, see 3GPP TS 23.002 [15]. It inherits from ManagedFunction.

6.3.3.2 Attributes

#### Table 5: Attributes of VlrFunction

Attribute name	<u>Visibility</u>	<u>Support</u> Qualifier	<u>Read</u> Qualifer	<u>Write</u> Qualifier
vlrFunctionId	+	Μ	Μ	_
userLabel	+	Μ	Μ	M

Name	Qualifier	Description
vlrFunctionId	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.
<del>userLabel</del>	READ-WRITE, M	A user-friendly (and user assigned) name of the associated object. Inherited from
		ManagedFunction.

#### Table 6: Notifications of VlrFunction

Name	Qualifier	Notes
notifyAckStateChanged	See Alarm IRP (3GPP TS 32.111-2 [11])	
notifyAttributeValueChange	0	
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	0	
notifyObjectDeletion	0	

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## 6.3.4 MOC-AucFunction

### 6.3.4.1 Definition

This Managed Object ClassIOC represents AUC functionality. For more information about the AUC, see 3GPP TS 23.002 [15].

It inherits from ManagedFunction.

6.3.4.2 Attributes

#### Table 7: Attributes of AucFunction

Attribute name	Visibility	<u>Support</u> Qualifier	<u>Read</u> Qualifer	<u>Write</u> Qualifier
aucFunctionId	+	Μ	М	_
userLabel	+	Μ	М	M

Name	<b>Qualifier</b>	Description
aucFunctionId	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.
<del>userLabel</del>	READ- WRITE, M	A user-friendly (and user assigned) name of the associated object. Inherited from
		ManagedFunction.

#### Table 8: Notifications of AucFunction

Name	Qualifier	Notes
notifyAckStateChanged	See Alarm IRP (3GPP TS 32.111-2 [11])	
notifyAttributeValueChange	0	
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	0	
notifyObjectDeletion	0	

## 6.3.5 MOC EirFunction

## 6.3.5.1 Definition

This Managed Object ClassIOC represents EIR functionality. For more information about the EIR, see 3GPP TS 23.002 [15]. It inherits from ManagedFunction.

6.3.5.2 Attributes

#### Table 9: Attributes of EirFunction

Attribute name	<u>Visibility</u>	<u>Support</u> Qualifier	<u>Read</u> Qualifer	<u>Write</u> Qualifier
eirFunctionId	+	М	М	_
userLabel	+	Μ	М	M

Name	Qualifier	Description
<del>cirFunctionId</del>	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.
<del>userLabel</del>	READ-WRITE, M	A user-friendly (and user assigned) name of the associated object. Inherited from
		ManagedFunction.

Name	Qualifier	Notes
notifyAckStateChanged	See Alarm IRP (3GPP TS 32.111-2 [11])	
notifyAttributeValueChange	0	
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	0	
notifyObjectDeletion	0	

#### Table 10: Notifications of EirFunction

## 6.3.6 MOC-SmsIwmscFunction

### 6.3.6.1 Definition

This Managed Object ClassIOC represents SMS-IWMSC functionality. For more information about the SMS-IWMSC, see 3GPP TS 23.002 [15].

It inherits from ManagedFunction.

#### 6.3.6.2 Attributes

#### Table 11: Attributes of SmsIwmscFunction

Attribute name	<u>Visibility</u>	<u>Support</u> Qualifier	<u>Read</u> Qualifer	<u>Write</u> Qualifier
SmsIwmscFunctionId	+	Μ	М	-
userLabel	+	М	М	М

Name	Qualifier	Description
SmsIwmscFunctionId	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.
<del>userLabel</del>	READ- WRITE,	A user-friendly (and user assigned) name of the associated object. Inherited
	M	from ManagedFunction.

#### Table 12: Notifications of SmsIwmscFunction

Name	Qualifier	Notes
notifyAckStateChanged	See Alarm IRP (3GPP TS 32.111-2 [11])	
notifyAttributeValueChange	0	
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	0	
notifyObjectDeletion	0	

## 6.3.7 MOC-SmsGmscFunction

### 6.3.7.1 Definition

This Managed Object ClassIOC represents SMS-GMSC functionality. For more information about the SMS-GMSC, see 3GPP TS 23.002 [15]. It inherits from ManagedFunction.

6.3.7.2 Attributes

Table 13: Attributes of SmsGmscFunction

		Support	Read	<u>Write</u>
Attribute name	<u>Visibility</u>	<b>Qualifier</b>	Qualifer 0	Qualifier
SmsGmscFunctionId	+	М	М	-
userLabel	+	М	М	М

Name	<b>Qualifier</b>	<b>Description</b>
SmsGmscFunctionId	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.
<del>userLabel</del>	READ- WRITE, M	A user-friendly (and user assigned) name of the associated object. Inherited
		from ManagedFunction.

#### Table 14: Notifications of SmsGmscFunction

Name	Qualifier	Notes
notifyAckStateChanged	See Alarm IRP (3GPP TS 32.111-2 [11])	
notifyAttributeValueChange	0	
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	0	
notifyObjectDeletion	0	

## 6.3.8 MOC-GmscFunction

## 6.3.8.1 Definition

This Managed Object Class<u>IOC</u> represents GMSC functionality. For more information about the GMSC, see 3GPP TS 23.002 [15].

It inherits from ManagedFunction.

6.3.8.2 Attributes

### Table 15: Attributes of GmscFunction

Attribute name	<u>Visibility</u>	Support Qualifier	<u>Read</u> Qualifer	<u>Write</u> Qualifier
gmscFunctionId	+	M	Μ	-
userLabel	+	Μ	М	Μ

Name	Qualifier	Description
gmscFunctionId	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.
<del>userLabel</del>	READ- WRITE, M	A user-friendly (and user assigned) name of the associated object. Inherited
		from ManagedFunction.

#### Table 16: Notifications of GmscFunction

Name	Qualifier	Notes
notifyAckStateChanged	See Alarm IRP (3GPP TS 32.111-2 [11])	
notifyAttributeValueChange	0	
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	0	
notifyObjectDeletion	0	

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## 6.3.9 MOC-SgsnFunction

### 6.3.9.1 Definitions

This managed object class<u>IOC</u> represents SGSN functionality. For more information about the SGSN, see 3GPP TS 23.002 [15].

It inherits from ManagedFunction.

6.3.9.2 Attributes

#### Table 17: Attributes of SgsnFunction

Attribute name	<u>Visibility</u>	Support Qualifier	<u>Read</u> Qualifer	<u>Write</u> Qualifier
sgsnFunctionId	+	М	М	_
userLabel	+	M	М	Μ
mccList	+	М	М	М
mncList	+	M	М	Μ
lacList	+	М	М	М
racList	+	M	М	Μ
sacList	+	М	М	М
sgsnId	+	М	М	М
sgsnFunction-GSMCell	+	М	Μ	_
sgsnFunction- ExternalGSMCell	+	M	M	-

Name	Qualifier	Description
sgsnFunctionId	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.
<del>userLabel</del>	READ- WRITE, M	A user-friendly (and user assigned) name of the associated object. Inherited
		from ManagedFunction.
meeList	READ-WRITE,M	List of Mobile Country Codes, MCC. It is a part of the PLMN Id (Ref. 3
		GPP TS 23.003 [3]).
mncList	READ-WRITE,M	List of Mobile Network Codes, MNC. It is a part of the PLMN Id (Ref. 3
		GPP TS 23.003 [3]).
lacList	READ-WRITE,M	List of Location Area Codes covered by SGSN (Ref. 3 GPP TS 23.003 [3]).
racList	READ-WRITE,M	List of Routing Area Codes covered by SGSN (Ref. 3 GPP TS 23.003 [3]).
<del>sacList</del>	READ-WRITE,M	List of Service Area Codes covered by SGSN (Ref. 3 GPP TS 23.003 [3]).
<del>sgsnId</del>	READ-WRITE,M	Unique SGSN ID (Ref. 3GPP TS 23.002).
sgsnFunction-	READ-ONLY,M	The value of this attribute shall be the DN of the related GSMcell instance.
<del>GSMCell</del>		This is a reference attribute modelling the role (of the association
		AssociatedWith) that this SgsnFunction is associated with to 0-* GSMcell.
sgsnFunction-	READ-ONLY,M	The value of this attribute shall be the DN of the related ExternalGSMcell
ExternalGSMCell		instance. This is a reference attribute modelling the role (of the association
		AssociatedWith) that this SgsnFunction is associated with to 0-*
		ExternalGSMcell.

### Table 18: Notifications of SgsnFunction

Name	Qualifier	Notes
notifyAckStateChanged	See Alarm IRP (3GPP TS 32.111-2 [11])	
notifyAttributeValueChange	0	
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	0	
notifyObjectDeletion	0	

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## 6.3.10 MOC GgsnFunction

### 6.3.10.1 Definitions

This Managed Object ClassIOC represents GGSN functionality. For more information about the GGSN, see 3GPP TS 23.002 [15].

It inherits from ManagedFunction.

6.3.10.2 Attributes

#### Table 19: Attributes of GgsnFunction

Attribute name	<u>Visibility</u>	Support Qualifier	<u>Read</u> Qualifer	<u>Write</u> Qualifier
ggsnFunctionId	+	Μ	Μ	_
userLabel	+	Μ	Μ	M

Name	Qualifier	Description
ggsnFunctionId	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.
<del>userLabel</del>	READ- WRITE, M	A user-friendly (and user assigned) name of the associated object. Inherited
		from ManagedFunction.

#### Table 20: Notifications of GgsnFunction

Name	Qualifier	Notes
notifyAckStateChanged	See Alarm IRP (3GPP TS 32.111-2 [11])	
notifyAttributeValueChange	0	
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	0	
notifyObjectDeletion	0	

## 6.3.11 MOC BgFunction

### 6.3.11.1 Definitions

This Managed Object Class<u>IOC</u> represents BG functionality. For more information about the BG, see 3GPP TS 23.002 [15]. It inherits from ManagedFunction.

### 6.3.11.2 Attributes

#### Table 21: Attributes of BgFunction

Attribute name	<u>Visibility</u>	Support Qualifier	<u>Read</u> Qualifer	<u>Write</u> Qualifier
bgFunctionId	+	Μ	М	_
userLabel	+	М	М	М

Name	Qualifier	<b>Description</b>
bgFunctionId	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.
<del>userLabel</del>	READ-WRITE, M	A user-friendly (and user assigned) name of the associated object. Inherited from
		ManagedFunction.

Name	Qualifier	Notes
notifyAckStateChanged	See Alarm IRP (3GPP TS 32.111-2 [11])	
notifyAttributeValueChange	0	
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	0	
notifyObjectDeletion	0	

#### Table 22: Notifications of BgFunction

## 6.3.12 MOC SmlcFunction

### 6.3.12.1 Definitions

This Managed Object ClassIOC represents SMLC functionality. For more information about the SMLC, see 3GPP TS 23.002 [15].

It inherits from ManagedFunction.

6.3.12.2 Attributes

### Table 23: Attributes of SmlcFunction

Attribute name	<u>Visibility</u>	<u>Support</u> Qualifier	<u>Read</u> Qualifer	<u>Write</u> Qualifier
smlcFunctionId	+	Μ	М	-
userLabel	+	Μ	M	M

Name	<b>Qualifier</b>	Description
smlcFunctionId	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.
<del>userLabel</del>	READ- WRITE,	A user-friendly (and user assigned) name of the associated object. Inherited from
	M	ManagedFunction.

#### Table 24: Notifications of SmlcFunction

Name	Qualifier	Notes
notifyAckStateChanged	See Alarm IRP (3GPP TS 32.111-2 [11])	
notifyAttributeValueChange	0	
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	0	
notifyObjectDeletion	0	

## 6.3.13 MOC GmlcFunction

## 6.3.13.1 Definitions

This Managed Object ClassIOC represents GMLC functionality. For more information about the GMLC, see 3GPP TS 23.002 [15].

It inherits from ManagedFunction.

6.3.13.2 Attributes

Table 25: Attributes of GmlcFunction

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Attrib	ute name	<u>Visibility</u>	Support Qualifier	<u>Read</u> Qualifer	<u>Write</u> Qualifier	
gmlcFu	nctionId	+	М	М	-	
usei	rLabel	+	М	М	М	
Name	Qualifier			Descript	ion	
Name mlcFunctionId	Qualifier READ-ONLY, M	\n attribute who:	<del>se 'name+valu</del>	Descript	<mark>ion</mark> d as an RDN w	hen naming an
Name JmlcFunctionId	Qualifier READ-ONLY, M /	An attribute who	<del>se 'name+valu</del> <del>bject class. Th</del>	Descript e' can be user his RDN uniqu	<b>ion</b> d as an RDN wi ely identifies th	hen naming an e object instance wit
<b>Name</b> <del>gmlcFunctionId</del>	Qualifier READ-ONLY, M / i t	An attribute whose the second of this of the second	<del>se 'name+valu</del> <del>bject class. Tr</del> <del>ontaining (par</del>	Descript e' can be use his RDN uniqu ent) object ins	<mark>ion</mark> d as an RDN wi ely identifies th tance.	<del>hen naming an</del> e object instance wit

**ManagedFunction** 

#### Table 26: Notifications of GmlcFunction

Name	Qualifier	Notes
notifyAckStateChanged	See Alarm IRP (3GPP TS 32.111-2 [11])	
notifyAttributeValueChange	0	
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	0	
notifyObjectDeletion	0	

#### 6.3.14 MOC ScfFunction

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### 6.3.14.1 Definitions

This Managed Object ClassIOC represents SCF functionality (also referred to as gsmSCF). For more information about the SCF, see 3GPP TS 23.002 [15]. It inherits from ManagedFunction.

6.3.14.2 Attributes

### Table 27: Attributes of ScfFunction

Attribute name	<u>Visibility</u>	<u>Support</u> Qualifier	<u>Read</u> Qualifer	<u>Write</u> Qualifier
scfFunctionId	+	Μ	М	_
userLabel	+	M	M	M

Name	<b>Qualifier</b>	Description
sefFunctionId	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.
<del>userLabel</del>	READ-WRITE,	A user-friendly (and user assigned) name of the associated object. Inherited from
	M	ManagedFunction.

Name	Qualifier	Notes
notifyAckStateChanged	See Alarm IRP (3GPP TS 32.111-2 [11])	
notifyAttributeValueChange	0	
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	0	
notifyObjectDeletion	0	

#### Table 28: Notifications of ScfFunction

## 6.3.15 MOC SrfFunction

### 6.3.15.1 Definitions

This Managed Object Class<u>IOC</u> represents SRF functionality (also referred to as gsmSRF). For more information about the SRF, see 3GPP TS 23.002 [15].

It inherits from ManagedFunction.

6.3.15.2 Attributes

#### Table 29: Attributes of SrfFunction

Attribute name	<u>Visibility</u>	<u>Support</u> Qualifier	<u>Read</u> Qualifer	<u>Write</u> Qualifier
srfFunctionId	+	M	M	_
userLabel	+	Μ	Μ	М

Name	<b>Qualifier</b>	Description
srfFunctionId	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.
<del>userLabel</del>	READ-WRITE,	A user-friendly (and user assigned) name of the associated object. Inherited from
	M	ManagedFunction.

#### Table 30: Notifications of SrfFunction

Name	Qualifier	Notes
notifyAckStateChanged	See Alarm IRP (3GPP TS 32.111-2 [11])	
notifyAttributeValueChange	0	
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	0	
notifyObjectDeletion	0	

## 6.3.16 MOC CbcFunction

## 6.3.16.1 Definitions

This Managed Object ClassIOC represents CBC functionality. For more information about the CBC, see 3GPP TS 23.002 [15]. It inherits from ManagedFunction.

6.3.16.2 Attributes

#### Table 31: Attributes of CbcFunction

Attribute name	<u>Visibility</u>	Support Qualifier	<u>Read</u> Qualifer	<u>Write</u> Qualifier
cbcFunctionId	+	М	М	-
userLabel	+	М	М	М

Name	<b>Qualifier</b>	Description
<del>cbcFunctionId</del>	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.
<del>userLabel</del>	READ- WRITE,	A user-friendly (and user assigned) name of the associated object. Inherited from
	M	ManagedFunction.

#### Table 32: Notifications of CbcFunction

Name	Qualifier	Notes
notifyAckStateChanged	See Alarm IRP (3GPP TS 32.111-2 [11])	
notifyAttributeValueChange	0	
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	0	
notifyObjectDeletion	0	

## 6.3.17 MOC CgfFunction

### 6.3.17.1 Definitions

This Managed Object ClassIOC represents CGF functionality. For more information about the CGF, see 3GPP TS 23.060 [18]. It inherits from ManagedFunction.

6.3.17.2 Attributes

#### Table 33: Attributes of CgfFunction

Attribute name	<u>Visibility</u>	Support Qualifier	<u>Read</u> Qualifer	<u>Write</u> Qualifier
cgfFunctionId	+	М	Μ	_
userLabel	+	M	M	M

Name	<b>Qualifier</b>	Description
<del>cgfFunctionId</del>	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.
<del>userLabel</del>	READ-WRITE,	A user-friendly (and user assigned) name of the associated object. Inherited from
	M	ManagedFunction.

#### Table 34: Notifications of CgfFunction

Name	Qualifier	Notes
notifyAckStateChanged	See Alarm IRP (3GPP TS 32.111-2 [11])	
notifyAttributeValueChange	0	
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	0	
notifyObjectDeletion	0	

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## 6.3.18 MOC MgwFunction

### 6.3.18.1 Definitions

This Managed Object ClassIOC represents IM-MGW functionality. For more information about MGW, see 3GPP TS 23.002 [15].

It inherits from ManagedFunction.

6.3.18.2 Attributes

#### Table 35: Attributes of MgwFunction

Attribute name	<u>Visibility</u>	<u>Support</u> Qualifier	<u>Read</u> Qualifer	<u>Write</u> Qualifier
mgwFunctionId	+	Μ	Μ	_
userLabel	+	М	Μ	Μ

Name	<b>Qualifier</b>	Description
mgwFunctionId	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.
<del>userLabel</del>	READ- WRITE,	A user-friendly (and user assigned) name of the associated object. Inherited from
	M	ManagedFunction.

#### Table 36: Notifications of MgwFunction

Name	Qualifier	Notes
notifyAckStateChanged	See Alarm IRP (3GPP TS 32.111-2 [11])	
notifyAttributeValueChange	0	
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	0	
notifyObjectDeletion	0	

## 6.3.19 MOC-GmscServerFunction

## 6.3.19.1 Definitions

This Managed Object Class<u>IOC</u> represents GMSCServer functionality. For more information about GMSCServer, see 3GPP TS 23.002 [15].

It inherits from ManagedFunction.

6.3.19.2 Attributes

### Table 37: Attributes of GmscServerFunction

Attribute name	<u>Visibility</u>	<u>Support</u> Qualifier	<u>Read</u> Qualifer	<u>Write</u> Qualifier
gmscServerFunctionId	+	М	М	_
userLabel	+	М	М	M

Name	<b>Qualifier</b>	Description
<del>gmscServerFune</del>	READ-ONLY, M	An attribute whose 'name+value' can be used as an RDN when naming an
<del>tionId</del>		instance of this object class. This RDN uniquely identifies the object instance within
		the scope of its containing (parent) object instance.
<del>userLabel</del>	READ- WRITE,	A user-friendly (and user assigned) name of the associated object. Inherited from
	M	ManagedFunction.

#### Table 38: Notifications of GmscServerFunction

Name	Qualifier	Notes
notifyAckStateChanged	See Alarm IRP (3GPP TS 32.111-2 [11])	
notifyAttributeValueChange	0	
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	0	
notifyObjectDeletion	0	

## 6.3.20 MOC-IwfFunction

## 6.3.20.1 Attributes

This Managed Object ClassIOC represents IWF functionality. For more information about IWF, see 3GPP TS 23.002 [15]. It inherits from ManagedFunction.

## 6.3.20.2 Attributes

#### Table 39: Attributes of IwfFunction

Attribute name	<u>Visibility</u>	<u>Support</u> Qualifier	<u>Read</u> Qualifer	<u>Write</u> Qualifier
iwfFunctionId	+	Μ	Μ	_
userLabel	+	М	М	М

Name	<b>Qualifier</b>	Description
iwfFunctionId	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.
<del>userLabel</del>	READ-WRITE,	A user-friendly (and user assigned) name of the associated object. Inherited from
	M	ManagedFunction.

#### Table 40: Notifications of IwfFunction

Name	Qualifier	Notes
notifyAckStateChanged	See Alarm IRP (3GPP TS 32.111-2 [11])	
notifyAttributeValueChange	0	
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	0	
notifyObjectDeletion	0	

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# 6.3.21 MOC-MnpSrfFunction

## 6.3.21.1 Definitions

This Managed Object ClassIOC represents MNP-SRF functionality (also known as FNR). For more information about MNP-SRF, see 3GPP TS 23.002 [15]. It inherits from ManagedFunction.

6.3.21.2 Attributes

#### Table 41: Attributes of MnpSrfFunction

Attribute name	<u>Visibility</u>	<u>Support</u> Qualifier	<u>Read</u> Qualifer	<u>Write</u> Qualifier
mnpSrfFunctionId	+	Μ	Μ	_
userLabel	+	Μ	М	Μ

Name	<b>Qualifier</b>	Description
mnpSrfFunction	READ-ONLY, M	An attribute whose 'name+value' can be used as an RDN when naming an
Id		instance of this object class. This RDN uniquely identifies the object instance within
		the scope of its containing (parent) object instance.
<del>userLabel</del>	READ- WRITE,	A user-friendly (and user assigned) name of the associated object. Inherited from
	M	ManagedFunction.

#### Table 42: Notifications of MnpSrfFunction

Name	Qualifier	Notes
notifyAckStateChanged	See Alarm IRP (3GPP TS 32.111-2 [11])	
notifyAttributeValueChange	0	
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	0	
notifyObjectDeletion	0	

## 6.3.22 MOC NpdbFunction

## 6.3.22.1 Definitions

This Managed Object ClassIOC represents NPDB functionality. For more information about NPDB, see 3GPP TS 23.002 [15]. It inherits from ManagedFunction.

6.3.22.2 Attributes

#### Table 43: Attributes of NpdbFunction

Attribute name	<u>Visibility</u>	Support Qualifier	<u>Read</u> Qualifer	<u>Write</u> Qualifier
npdbFunctionId	+	Μ	Μ	-
userLabel	+	M	Μ	M

Name	<b>Qualifier</b>	Description
npdbFunctionId	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.
<del>userLabel</del>	READ- WRITE,	A user-friendly (and user assigned) name of the associated object. Inherited from
	M	ManagedFunction.

Name	Qualifier	Notes
notifyAckStateChanged	See Alarm IRP (3GPP TS 32.111-2 [11])	
notifyAttributeValueChange	0	
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	0	
notifyObjectDeletion	0	

#### Table 44: Notifications of NpdbFunction

## 6.3.23 MOC SgwFunction

### 6.3.23.1 Definitions

This Managed Object ClassIOC represents SGW functionality. For more information about SGW, see 3GPP TS 23.002 [15]. It inherits from ManagedFunction.

### 6.3.23.2 Attributes

#### Table 45: Attributes of SgwFunction

Attribute name	<u>Visibility</u>	Support Qualifier	<u>Read</u> Qualifer	<u>Write</u> Qualifier
sgwFunctionId	+	Μ	М	_
userLabel	+	М	М	М

	Name	<b>Qualifier</b>	Description
B	gwFunctionId	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.
u	<del>serLabel</del>	READ- WRITE,	A user-friendly (and user assigned) name of the associated object. Inherited from
		M	ManagedFunction.

#### Table 46: Notifications of SgwFunction

Name	Qualifier	Notes
notifyAckStateChanged	See Alarm IRP (3GPP TS 32.111-2 [11])	
notifyAttributeValueChange	0	
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	0	
notifyObjectDeletion	0	

## 6.3.24 MOC-SsfFunction

### 6.3.24.1 Definitions

This Managed Object ClassIOC represents SSF functionality. For more information about SSF, see 3GPP TS 23.002 [15]. It inherits from ManagedFunction.

6.3.24.2 Attributes

#### Table 47: Attributes of SsfFunction

Attribute name	<u>Visibility</u>	Support Qualifier	<u>Read</u> Qualifer	<u>Write</u> Qualifier
ssfFunctionId	+	М	М	-
userLabel	+	М	М	М

Name	Qualifier	Description
<del>ssfFunctionId</del>	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.
<del>userLabel</del>	READ- WRITE,	A user-friendly (and user assigned) name of the associated object. Inherited from
	M	ManagedFunction.

#### Table 48: Notifications of SsfFunction

Name	Qualifier	Notes
notifyAckStateChanged	See Alarm IRP (3GPP TS 32.111-2 [11])	
notifyAttributeValueChange	0	
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	0	
notifyObjectDeletion	0	

## 6.3.25 MOC-BsFunction

### 6.3.25.1 Definitions

This Managed Object ClassIOC represents BS functionality. For more information about BS, see 3GPP TS 23.060 [18]. It inherits from ManagedFunction.

6.3.25.2 Attributes

#### Table 49: Attributes of BsFunction

Attribute name	<u>Visibility</u>	<u>Support</u> Qualifier	<u>Read</u> Qualifer	<u>Write</u> Qualifier
bsFunctionId	+	М	М	_
userLabel	+	M	M	M

Name	<b>Qualifier</b>	Description
bsFunctionId	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.
<del>userLabel</del>	READ-WRITE,	A user-friendly (and user assigned) name of the associated object. Inherited from
	M	ManagedFunction.

#### Table 50: Notifications of BsFunction

Name	Qualifier	Notes
notifyAckStateChanged	See Alarm IRP (3GPP TS 32.111-2 [11])	
notifyAttributeValueChange	0	
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	0	
notifyObjectDeletion	0	

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## 6.3.26 MOC-lucsLink

### 6.3.26.1 Definitions

This Managed Object Class<u>IOC</u> represents a Iu-cs interface link connecting a MSCserver to the RNC or BSC. For more information about the Iu interface, see 3GPP TS 23.002 [15]. It inherits from ManagedFunction.

6.3.26.2 Attributes

#### Table 51: Attributes of lucsLink

Attribute name	<u>Visibility</u>	Support Qualifier	<u>Read</u> Qualifer	<u>Write</u> Qualifier
iucslinkId	+	Μ	Μ	-
userLabel	+	Μ	Μ	Μ
connectedRnc	+	М	М	-
connectedBss	+	М	Μ	_

Name	Qualifier	Description
<del>iucslinkId</del>	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.
<del>userLabel</del>	READ-WRITE, M	A user-friendly (and user assigned) name of the associated object. Inherited
		from ManagedFunction.
<del>connectedRnc</del>	READ-ONLY, M	The value of this attribute shall be the DN of the related RncFunction or
		ExternalRncFunction instance. This is a reference attribute modelling the role
		(of the association ConnectedTo) that this lucsLink is connected to 0-1
		RncFunction or 0-1 ExternalRncFunction.
<del>connectedBss</del>	READ-ONLY, M	The value of this attribute shall be the DN of the related BssFunction or
		ExternalBssFunction instance. This is a reference attribute modelling the role
		(of the association ConnectedTo) that this lucsLink is connected to 0-1
		BssFunction or 0-1 ExternalBssFunction.

#### Table 52: Notifications of lucsLink

Name	Qualifier	Notes
notifyAckStateChanged	See Alarm IRP (3GPP TS 32.111-2 [11])	
notifyAttributeValueChan	ge 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	0	
notifyObjectDeletion	0	

## 6.3.27 MOC-lupsLink

## 6.3.27.1 Definitions

This Managed Object ClassIOC represents a Iu-ps interface link connecting a SGSN to the RNC or BSC. For more information about the Iu interface, see 3GPP TS 23.002 [15]. It inherits from ManagedFunction.

6.3.27.2 Attributes

#### Table 53: Attributes of lupsLink

Attribute name	<u>Visibility</u>	Support Qualifier	<u>Read</u> Qualifer	<u>Write</u> Qualifier
iupslinkId	+	M	M	-
userLabel	+	М	М	М
connectedRnc	+	0	М	_
connectedBss	+	0	М	-

Name	Qualifier	Description
<del>iupslinkId</del>	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.
<del>userLabel</del>	READ-WRITE, M	A user-friendly (and user assigned) name of the associated object. Inherited from
		ManagedFunction.
<del>connectedRnc</del>	READ-ONLY, O	The value of this attribute shall be the DN of the related RncFunction or
		ExternalRncFunction instance. This is a reference attribute modelling the role (of
		the association ConnectedTo) that this lupsLink is connected to 0-1 RncFunction or
		0-1 ExternalRncFunction.
		This attribute shall be present if lupsLink is connected to an RNC.
<del>connectedBss</del>	READ-ONLY, O	The value of this attribute shall be the DN of the related BssFunction or
		ExternalBssFunction instance. This is a reference attribute modelling the role (of
		the association ConnectedTo) that this lupsLink is connected to 0-1 BssFunction or
		0-1 ExternalBssFunction.
		This attribute shall be present if lupsLink is connected to a BSS.

NOTE: An instance of an IupsLink can only be connected to an RNC or a BSS.

#### Table 54: Notifications of lupsLink

Name	Qualifier	Notes
notifyAckStateChanged	See Alarm IRP (3GPP TS 32.111-2 [11])	
notifyAttributeValueChang	de 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	0	
notifyObjectDeletion	0	

## 6.3.28 MOC-lubcLink

### 6.3.28.1 Definitions

This Managed Object Class<u>IOC</u> represents a Iu-bc interface link connecting a CBC to the RNC. For more information about the Iu interface, see 3GPP TS 23.002 [15]. It inherits from ManagedFunction.

6.3.28.2 Attributes

#### Table 55: Attributes of lubcLink

Attribute name	Visibility	Support Qualifier	<u>Read</u> Qualifer	<u>Write</u> Qualifier
iubclinkId	+	M	М	_
userLabel	+	M	М	Μ
connectedRnc	+	М	М	-

Name	<b>Qualifier</b>	Description
iubclinkId	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.
<del>userLabel</del>	READ-WRITE, M	A user-friendly (and user assigned) name of the associated object. Inherited from
		ManagedFunction.
<del>connectedRnc</del>	READ-ONLY, M	The value of this attribute shall be the DN of the related RncFunction or
		ExternalRncFunction instance. This is a reference attribute modelling the role (of
		the association ConnectedTo) that this lubcLink is connected to 0-1 RncFunction or
		0-1 ExternalRncFunction.

### Table 56: Notifications of lubcLink

Name	Qualifier	Notes
notifyAckStateChanged	See Alarm IRP (3GPP TS 32.111-2 [11])	
notifyAttributeValueChange	0	
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	0	
notifyObjectDeletion	0	

## 6.3.29 MOC ALink

### 6.3.29.1 Definitions

This Managed Object Class<u>IOC</u> represents the A interface link connecting a MSC to the GERAN. For more information about the GERAN, see 3GPP TS 23.002 [15]. It inherits from ManagedFunction.

6.3.29.2 Attributes

### Table 57: Attributes of Alink

Attribute name	Visibility	Support Qualifier	<u>Read</u> Qualifer	<u>Write</u> Qualifier
aLinkId	+	M	М	-
userLabel	+	М	М	М
connectedBss	+	М	М	-

Name	<b>Qualifier</b>	Description
<del>aLinkId</del>	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.
<del>userLabel</del>	READ-WRITE,M	A user-friendly (and user assigned) name of the associated object. Inherited from
		ManagedFunction.
<del>connectedBss</del>	READ-ONLY, M	The value of this attribute shall be the DN of the related BssFunction or
		ExternalBssFunction instance. This is a reference attribute modelling the role (of the
		association ConnectedTo) that this aLink is connected to 0-1 BssFunction or 0-1
		ExternalBssFunction.

#### Table 58: Notifications of ALink

Name	Qualifier	Notes
notifyAckStateChanged	See Alarm IRP (3GPP TS 32.111-2 [11])	
notifyAttributeValueChange	0	
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	0	
notifyObjectDeletion	0	

## 6.3.30 MOC-GbLink

### 6.3.30.1 Definitions

This Managed Object ClassIOC represents the Gb interface link connecting a SGSN to the GERAN. For more information about the GERAN, see 3GPP TS 23.002 [15]. It inherits from ManagedFunction.

6.3.30.2 Attributes

#### Table 59: Attributes of GbLink

Attribute name	<u>Visibility</u>	<u>Support</u> Qualifier	<u>Read</u> Qualifer	<u>Write</u> Qualifier
gbLinkId	+	Μ	Μ	_
userLabel	+	Μ	Μ	M
connectedBss	+	М	М	_

Name	<b>Qualifier</b>	Description
<del>gbLinkId</del>	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.
<del>userLabel</del>	READ-WRITE,M	A user-friendly (and user assigned) name of the associated object. Inherited from
		ManagedFunction.
<del>connectedBss</del>	READ-ONLY, M	The value of this attribute shall be the DN of the related BssFunction or
		ExternalBssFunction instance. This is a reference attribute modelling the role (of the
		association ConnectedTo) that this gbLink is connected to 0-1 BssFunction or 0-1
		ExternalBssFunction.

#### Table 60: Notifications of GbLink

Name	Qualifier	Notes
notifyAckStateChanged	See Alarm IRP (3GPP TS 32.111-2 [11])	
notifyAttributeValueChange	0	
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	0	
notifyObjectDeletion	0	

## 6.3.3231 MOC CsMgwFunction

### 6.3.31.1 Definitionss

This Managed Object ClassIOC represents CS-MGW functionality. For more information about MGW, see 3GPP TS 23.002 [15].

## 6.3.31.2 Attributes

#### Table 6361: Attributes of CsMgwFunction

Attribute name	<u>Visibility</u>	Support Qualifier	<u>Read</u> Qualifer	<u>Write</u> Qualifier
csmgwFunctionId	+	M	М	_
userLabel	+	M	M	M
<u>csMgwFunction-</u> MscServerFunction	<u>+</u>	M	M	<u> </u>
csMgwFunction- IucsLink	+	М	М	_
csMgwFunction- ALink	+	Μ	Μ	_

Name	<b>Qualifier</b>	Description
<del>csmgwFunctionI</del>	READ-ONLY, M	An attribute whose 'name+value' can be used as an RDN when naming an instance
d		of this object class. This RDN uniquely identifies the object instance within the scope
		of its containing (parent) object instance.
<del>userLabel</del>	READ-WRITE, M	A user-friendly (and user assigned) name of the associated object. Inherited from
		ManagedFunction.
<del>csMgwFunction</del>	READ-ONLY, M	The value of this attribute shall be the DN of the related mscServerFunction
MscServerFunct		instance. This is a reference attribute modelling the role (of the association
ion		AssociatedWith) that this csMgwFunction is associated with to 0-*
		mscServerFunction.
csMgwFunction-	READ-ONLY, M	The value of this attribute shall be the DN of the related lucsLink instance. This is a
<b>IucsLink</b>		reference attribute modelling the role (of the association ConnectedTo) that this
		csMgwFunction is connected to 0-* lucsLink.
esMgwFunction-	READ-ONLY, M	The value of this attribute shall be the DN of the related ALink instance. This is a
ALink		reference attribute modelling the role (of the association ConnectedTo) that this
		csMgwFunction is connected to 0-* ALink.

#### Table 6462: Notifications of CSMgwFunction

Name	Qualifier	Notes
notifyAckStateChanged	See Alarm IRP (3GPP TS 32.111-2 [11])	
notifyAttributeValueChange	0	
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	0	
notifyObjectDeletion	0	

# 6.4 Information relationships definitionAssociations

## 6.4.1 Association AssociatedWith1 (M)

## 6.4.1.1 Definition

This <u>represents a bi-directional relation</u>association models the relationship between the MscServerFunction and GSMCell. The role of the relation shall be mapped to a reference attribute of the IOC. The name of the reference attribute shall be the role <u>name.Each association has two roles</u>. These two roles model each MOC's association with the other MOC. Each role is in the MOC definition mapped to a reference attribute with the same name.

## 6.4.1.2 Roles

#### Table 63: Roles of the relation AssociatedWith1

<u>Name</u>	<b>Definition</b>
mscServerFunction-Gsmcell	This role (when present) represents mscServerFunction capability to identify the set of related GSMcell. MscServerFunction-GSMcell shall carry the set of GSMcell's DN(s).
<u>gSMcell- MscServerFunction</u>	This role (when present) represents GSMcell capability to identify one related mscServerFunction. When the role is absent, the gSMcell- mscServerFunction shall contain no information. When it is present, it shall contain one mscServerFunction DN.

## 6.4.1.3 Constraints

## 6.4.2 AssociatedWith2 (M)

### 6.4.2.1 Definition

<u>This represents a bi-directional relation between the MscServerFunction and ExternalGSMCell.</u> The role of the relation shall be mapped to a reference attribute of the IOC. The name of the reference attribute shall be the role <u>name</u>.

6.4.2.2 Roles

#### Table 64: Roles of the relation AssociatedWith2

Name	<b>Definition</b>
mscServerFunction-ExternalGSMcell	This role (when present) represents
	mscServerFunction capability to identify
	the set of related externalGSMcell.
	MscServerFunction-externalGSMcell
	shall carry the set of externalGSMcell's
	<u>DN(s).</u>
externalGSMcell-MscServerFunction	This role (when present) represents
	externalGSMcell capability to identify
	one related mscServerFunction. When
	the role is absent, the externalGSMcell-
	mscServerFunction shall contain no
	information. When it is present, it shall
	contain one mscServerFunction DN.

## 6.4.2.3 Constraints

## 6.4.3 AssociatedWith3 (M)

### 6.4.3.1 Definition

This represents a bi-directional relation between the MscServerFunction and CsMgwFunction.

The role of the relation shall be mapped to a reference attribute of the IOC. The name of the reference attribute shall be the role name.

## 6.4.3.2 Roles

#### Table 65: Roles of the relation AssociatedWith3

<u>Name</u>	<b>Definition</b>
mscServerFunction-CsMgwFunction	This role (when present) represents mscServerFunction capability to identify the related CsMgwFunction. MscServerFunction- CsMgwFunction shall carry the CsMgwFunction DN.
<u>csMgwFunction - MscServerFunction</u>	This role (when present) represents CsMgwFunction capability to identify one related mscServerFunction. When the role is absent, the CsMgwFunction - mscServerFunction shall contain no information. When it is present, it shall contain one MscServerFunction DN.

## 6.4.3.3 Constraints

## 6.4.4 AssociatedWith4 (M)

### 6.4.4.1 Definition

This represents a bi-directional relation between the SgsnFunction and GsmCell. The role of the relation shall be mapped to a reference attribute of the IOC. The name of the reference attribute shall be the role name.

### 6.4.4.2 Roles

### Table 66: Roles of the relation AssociatedWith4

Name	<b>Definition</b>
sgsnFunction-GsmCell	This role (when present) represents sgsnFunction capability to identify the set of related GSMcell. sgsnFunction - <u>GSMcell shall carry the set of</u> <u>GSMcell's DN(s).</u>
gsmCell - SgsnFunction	This role (when present) represents GSMcell capability to identify one related sgsnFunction. When the role is absent, the gSMcell- sgsnFunction shall contain no information. When it is present, it shall contain one sgsnFunction DN.

## 6.4.4.3 Constraints

## 6.4.5 AssociatedWith5 (M)

### 6.4.5.1 Definition

<u>This represents a bi-directional relation between the SgsnFunction and ExternalGsmCell.</u> <u>The role of the relation shall be mapped to a reference attribute of the IOC. The name of the reference attribute shall be the role name.</u>

### 6.4.5.2 Roles

#### Table 67: Roles of the relation AssociatedWith5

<u>Name</u>	<u>Definition</u>
sgsnFunction-ExternalGsmCell	This role (when present) represents
	sgsnFunction capability to identify the
	set of related externalGSMcell.
	sgsnFunction -externalGSMcell shall
	carry the set of externalGSMcell's
	<u>DN(s).</u>
externalGsmCell - SgsnFunction	This role (when present) represents
	externalGSMcell capability to identify
	one related sgsnFunction. When the
	role is absent, the externalGsmcell-
	sgsnFunction shall contain no
	information. When it is present, it shall
	contain one sgsnFunction DN.

### 6.4.5.3 Constraints

## 6.4.26 Association ConnectedTo1 (M)

### 6.4.6.1 Definition

This <u>represents a uni-directional relation</u>association models the relationship-between the CsMgwFunction and IucsLink. Each association has one role. This role models the MOC's association with the other MOC. The role is in the MOC definition mapped to a reference attribute with the same name. The role of the relation shall be mapped to a reference attribute of the IOC.

6.4.6.2 Roles

#### Table 68: Roles of the relation ConnectedTo1

Name	<b>Definition</b>
csMgwFunction-lucsLink	This role (when present) represents csMgwFunction capability to identify the set of connected lucsLinks. When the role is present, the csMgwFunction- lucsLink shall carry the set of lucsLink's DN(s).

## 6.4.6.3 Constraints

## 6.4.7 ConnectedTo2 (M)

## 6.4.7.1 Definition

This represents a uni-directional relation between the IucsLink and ExternalRncFunction. The role of the relation shall be mapped to a reference attribute of the IOC.

6.4.7.2 Roles

### Table 69: Roles of the relation ConnectedTo2

Name	<b>Definition</b>
connectedRnc	This role (when present) represents
	IOC lucsLink capability to identify one
	connected Rnc. When present, it
	shall contain one RNC DN.

## 6.4.7.3 Constraints

## 6.4.8 ConnectedTo3 (M)

### 6.4.8.1 Definition

This represents a uni-directional relation between the IucsLink and RncFunction. The role of the relation shall be mapped to a reference attribute of the IOC.

### 6.4.8.2 Roles

#### Table 70: Roles of the relation ConnectedTo3

Name	<b>Definition</b>
connectedRnc	This role (when present) represents IOC lucsLink capability to identify one connected Rnc. When present, it
	shall contain one RNC DN.

## 6.4.8.3 Constraints

## 6.4.9 ConnectedTo4 (M)

### 6.4.9.1 Definition

This represents a uni-directional relation between the IupsLink and RncFunction. The role of the relation shall be mapped to a reference attribute of the IOC.

### 6.4.9.2 Roles

#### Table 71: Roles of the relation ConnectedTo4

Name	<b>Definition</b>	
connectedRnc	This role (when present) represents	
	IOC lupsLink capability to identify one	
	connected Rnc. When present, it	
	shall contain one RNC DN.	

## 6.4.9.3 Constraints

## 6.4.10 ConnectedTo5 (M)

#### 6.4.10.1 Definition

This represents a uni-directional relation between the IupsLink and ExternalRncFunction. The role of the relation shall be mapped to a reference attribute of the IOC.

### 6.4.10.2 Roles **Table 72: Roles of the relation Connected To5** Name Definition This role (when present) represents connectedRnc IOC lupsLink capability to identify one connected Rnc. When present, it shall contain one RNC DN. 6.4.10.3 Constraints 6.4.11 ConnectedTo6 (M) 6.4.11.1 Definition This represents a uni-directional relation between the IubcLink and RncFunction. The role of the relation shall be mapped to a reference attribute of the IOC. 6.4.11.2 Roles **Table 73: Roles of the relation ConnectedTo6** Definition Name This role (when present) represents connectedRnc IOC lubcLink capability to identify one connected Rnc. When present, it

## 6.4.11.3 Constraints

## 6.4.12 ConnectedTo7 (M)

## 6.4.12.1 Definition

This represents a uni-directional relation between the IubcLink and ExternalRncFunction. The role of the relation shall be mapped to a reference attribute of the IOC.

## 6.4.12.2 Roles

#### Table 74: Roles of the relation ConnectedTo7

shall contain one RNC DN.

Name	<b>Definition</b>
<u>connectedRnc</u>	This role (when present) represents IOC lubcLink capability to identify one connected Rnc. When present, it shall contain one RNC DN.

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## 6.4.12.3 Constraints

## 6.4.13 ConnectedTo8 (M)

## 6.4.13.1 Definition

This represents a uni-directional relation between the CsMgwFunction and Alink. The role of the relation shall be mapped to a reference attribute of the IOC.

6.4.13.2 Roles

#### Table 75: Roles of the relation ConnectedTo8

Name	<b>Definition</b>
csMgwFunction-ALink	This role (when present) represents csMgwFunction capability to identify the set of connected ALinks. When the role
	shall carry the set of ALink's DN(s).

## 6.4.13.3 Constraints

## 6.4.14 ConnectedTo9 (M)

### 6.4.14.1 Definition

This represents a uni-directional relation between the Alink and ExternalBssFunction. The role of the relation shall be mapped to a reference attribute of the IOC.

6.4.14.2 Roles

#### Table 76: Roles of the relation ConnectedTo9

Name	Definition
connectedBss	This role (when present) represents
	connected Bss. When present, it
	shall contain one Bss DN.

## 6.4.14.3 Constraints

## 6.4.15 ConnectedTo10 (M)

6.4.15.1 Definition

This represents a uni-directional relation between the Iucslink and ExternalBssFunction. The role of the relation shall be mapped to a reference attribute of the IOC.

6.4.15.2 Roles

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#### Table 77: Roles of the relation ConnectedTo10

Name	<b>Definition</b>
connectedBss	This role (when present) represents
	IOC lucsLink capability to identify one
	connected Bss. When present, it
	shall contain one Bss DN.

### 6.4.15.3 Constraints

## 6.4.16 ConnectedTo11 (M)

### 6.4.16.1 Definition

This represents a uni-directional relation between the Iucslink and BssFunction. The role of the relation shall be mapped to a reference attribute of the IOC.

### 6.4.16.2 Roles

#### Table 78: Roles of the relation ConnectedTo11

Name	Definition
connectedBss	This role (when present) represents IOC lucsLink capability to identify one connected Bss. When present, it shall contain one Bss DN

### 6.4.16.3 Constraints

## 6.4.17 ConnectedTo12 (M)

### 6.4.17.1 Definition

This represents a uni-directional relation between the Alink and BssFunction. The role of the relation shall be mapped to a reference attribute of the IOC.

### 6.4.17.2 Roles

#### Table 79: Roles of the relation ConnectedTo12

Name	Definition	
connectedBss	This role (when present) represents	
	IOC Alink capability to identify one	
	connected Bss. When present, it	
	shall contain one Bss DN.	

### 6.4.17.3 Constraints

## 6.4.18 ConnectedTo13 (M)

#### 6.4.18.1 Definition

This represents a uni-directional relation between the Gblink and BssFunction. The role of the relation shall be mapped to a reference attribute of the IOC.

## 6.4.18.2 Roles Table 80: Roles of the relation ConnectedTo13 Name Definition This role (when present) represents connectedBss IOC GbLink capability to identify one connected Bss. When present, it shall contain one Bss DN. 6.4.18.3 Constraints 6.4.19 ConnectedTo14 (M) 6.4.19.1 Definition This represents a uni-directional relation between the Iupslink and BssFunction. The role of the relation shall be mapped to a reference attribute of the IOC. 6.4.19.2 Roles Table 81: Roles of the relation ConnectedTo14 Definition Name connectedBss This role (when present) represents IOC lupsLink capability to identify one connected Bss. When present, it shall contain one Bss DN. 6.4.19.3 Constraints ConnectedTo15 (M) 6.4.20

# 6.4.20.1 Definition

This represents a uni-directional relation between the Iupslink and ExternalBssFunction. The role of the relation shall be mapped to a reference attribute of the IOC.

## 6.4.20.2 Roles

### Table 82: Roles of the relation ConnectedTo15

Name	<b>Definition</b>
connectedBss	This role (when present) represents
	IOC lupsLink capability to identify one
	connected Bss. When present, it
	shall contain one Bss DN.

## 6.4.20.3 Constraints

## 6.4.21 ConnectedTo16 (M)

## 6.4.21.1 Definition

This represents a uni-directional relation between the Gblink and ExternalBssFunction. The role of the relation shall be mapped to a reference attribute of the IOC.

6.4.21.2	Roles	
	<u>Table 83:</u>	Roles of the relation ConnectedTo16
	Name	Definition
	connectedBss	This role (when present) represents IOC GbLink capability to identify one connected Bss. When present, it shall contain one Bss DN.
<u>6.4.21.3</u>	<u>Constraints</u>	
<u>6.5</u>	Information attribute	s definition

## 6.5.1 Definition and legal values

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

### Table 84: Attributes

Attribute Name	Definition	Legal Values
lacList	List of Location Area Codes covered by MSC (Ref. 3	
	GPP TS 23.003 [3]).	
sacList	List of Service Area Codes covered by MSC (Ref. 3	
	GPP TS 23.003 [3]).	
gcaList	List of Group Call Area (Ref. 3 GPP TS 23.003 [3]).	
mscId	Unique MSC ID (Ref. 3 GPP TS 23.002).	
mccList	List of Mobile Country Codes, MCC (part of the	
	PLMN Id, Ref. 3 GPP TS 23.003 [3]).	
mncList	List of Mobile Network Codes, MNC (part of the	
	PLMN Id, Ref. 3 GPP TS 23.003 [3]).	
mscServerFunctionId	An attribute whose 'name+value' can be used as an	
	RDN when naming an instance of the object class.	
	This RDN uniquely identifies the object instance	
	within the scope of its containing (parent) object	
	instance.	
hlrFunctionId	An attribute whose 'name+value' can be used as an	
	RDN when naming an instance of the object class.	
	This RDN uniquely identifies the object instance	
	within the scope of its containing (parent) object	
	instance.	
vlrFunctionId	An attribute whose 'name+value' can be used as an	
	RDN when naming an instance of the object class.	
	This RDN uniquely identifies the object instance	
	within the scope of its containing (parent) object	
	instance.	
aucFunctionId	An attribute whose 'name+value' can be used as an	
	RDN when naming an instance of the object class.	
	This RDN uniquely identifies the object instance	
	within the scope of its containing (parent) object	
	instance.	
eirFunctionId	An attribute whose 'name+value' can be used as an	
	RDN when naming an instance of the object class.	
	This RDN uniquely identifies the object instance	
	within the scope of its containing (parent) object	
	Instance.	
SmsiwmseFunctionid	An attribute whose name+value can be used as an	
	This PDN uniquely identifies the object instance	
	within the scope of its containing (parent) object	
	instance	
smsGmscFunctionId	An attribute whose 'name+value' can be used as an	
	RDN when naming an instance of the object class	
	This RDN uniquely identifies the object instance	
	within the scope of its containing (parent) object	
	instance.	
gmscFunctionId	An attribute whose 'name+value' can be used as an	
<u> </u>	RDN when naming an instance of the object class.	
	This RDN uniquely identifies the object instance	
	within the scope of its containing (parent) object	
	instance.	
sgsnFunctionId	An attribute whose 'name+value' can be used as an	
	RDN when naming an instance of the object class.	
	This RDN uniquely identifies the object instance	
	within the scope of its containing (parent) object	
	instance.	
sgsnId	Unique SGSN ID (Ref. 3GPP TS 23.002).	
ggsnFunctionId	An attribute whose 'name+value' can be used as an	
	RDN when naming an instance of the object class.	
	This RDN uniquely identifies the object instance	
	within the scope of its containing (parent) object	
	Instance.	
bgFunctionId	An attribute whose 'name+value' can be used as an	
	KUN when naming an instance of the object class.	
	Inis KDN uniquely identifies the object instance	
	within the scope of its containing (parent) object	

Attribute Name	Definition	Logal Values
Attribute Name	instance	Legal values
sml a Funation Id	An attribute where 'nome welve' can be used as an	
smicfunctionid	PDN when naming an instance of the object class	
	This RDN uniquely identifies the object instance	
	within the scope of its containing (parent) object	
	instance.	
amlcFunctionId	An attribute whose 'name+value' can be used as an	
	RDN when naming an instance of the object class.	
	This RDN uniquely identifies the object instance	
	within the scope of its containing (parent) object	
	instance.	
scfFunctionId	An attribute whose 'name+value' can be used as an	
	RDN when naming an instance of the object class.	
	This RDN uniquely identifies the object instance	
	within the scope of its containing (parent) object	
	instance.	
srtFunctionId	An attribute whose 'name+value' can be used as an	
	RDN when naming an instance of the object class.	
	This RDN uniquely identifies the object instance	
	instance	
choEunctionId	An attribute where 'name walue' can be used as an	
CDCFUICIIONIA	PDN when naming an instance of the object class	
	This RDN uniquely identifies the object instance	
	within the scope of its containing (parent) object	
	instance.	
cqfFunctionId	An attribute whose 'name+value' can be used as an	
	RDN when naming an instance of the object class.	
	This RDN uniquely identifies the object instance	
	within the scope of its containing (parent) object	
	instance.	
mgwFunctionId	An attribute whose 'name+value' can be used as an	
	RDN when naming an instance of the object class.	
	This RDN uniquely identifies the object instance	
	within the scope of its containing (parent) object	
	instance.	
gmscServerFunctionId	An attribute whose 'name+value' can be used as an	
	RDN when haming an instance of the object class.	
	within the scope of its containing (parent) ehiest	
	instance	
mnpSrfFunctionId	An attribute whose 'name+value' can be used as an	
	RDN when naming an instance of the object class	
	This RDN uniquely identifies the object instance	
	within the scope of its containing (parent) object	
	instance.	
npdbFunctionId	An attribute whose 'name+value' can be used as an	
	RDN when naming an instance of the object class.	
	This RDN uniquely identifies the object instance	
	within the scope of its containing (parent) object	
	instance.	
sgwFunctionId	An attribute whose 'name+value' can be used as an	
	RDN when naming an instance of the object class.	
	uithin the seepe of its containing (parent) chiest	
	instance	
ssfFunctionId	An attribute whose 'name+value' can be used as an	
SIFUICCIOIII	RDN when naming an instance of the object class	
	This RDN uniquely identifies the object instance	
	within the scope of its containing (parent) object	
	instance.	
bsFunctionId	An attribute whose 'name+value' can be used as an	
	RDN when naming an instance of the object class.	
	This RDN uniquely identifies the object instance	
	within the scope of its containing (parent) object	
	instance.	
liucslinkId	IAn attribute whose 'name+value' can be used as an	

Attribute Name	Definition	Legal Values
	RDN when naming an instance of the object class.	
	This RDN uniquely identifies the object instance	
	within the scope of its containing (parent) object	
	instance.	
iupslinkId	An attribute whose 'name+value' can be used as an	
	RDN when naming an instance of the object class.	
	This RDN uniquely identifies the object instance	
	within the scope of its containing (parent) object	
	instance.	
iubclinkId	An attribute whose 'name+value' can be used as an	
	RDN when naming an instance of the object class.	
	This RDN uniquely identifies the object instance	
	within the scope of its containing (parent) object	
	instance.	
aLinkId	An attribute whose 'name+value' can be used as an	
	RDN when naming an instance of the object class.	
	This RDN uniquely identifies the object instance	
	within the scope of its containing (parent) object	
	instance.	
gbLinkId	An attribute whose 'name+value' can be used as an	
	RDN when naming an instance of the object class.	
	This RDN uniquely identifies the object instance	
	within the scope of its containing (parent) object	
	instance.	
csmgwFunctionId	An attribute whose 'name+value' can be used as an	
	RDN when naming an instance of the object class.	
	This RDN uniquely identifies the object instance	
	within the scope of its containing (parent) object	
	instance.	
nirFunctionia	An attribute whose name+value can be used as an	
	RUN when haming an instance of the object class.	
	This RDN uniquely identifies the object instance	
	within the scope of its containing (parent) object	
blastionId	An attribute where (name welve) can be used as an	
IIIFunccionia	An allipule whose hame+value can be used as an	
	This PDN uniquely identifies the object instance	
	within the scope of its containing (parent) object	
	instance	
blrEunctionId	An attribute whose 'name+value' can be used as an	
	RDN when naming an instance of the object class	
	This RDN uniquely identifies the object instance	
	within the scope of its containing (parent) object	
	linstance.	
userLabel	A user-friendly (and user assigned) name of the	
	associated object. Inherited from ManagedFunction.	

## 6.5.2 <u>Constraints</u>

None.

# 6.6 Particular information configurations

Not applicable.