

Source: SA5 (Telecom Management)
Title: CR 32632-3-4-5 Configuration Management (CM) Core Network Resources IRP
Document for: Approval
Agenda Item: 7.5.3

Doc-1st-Level	Spec	CR	R	Phase	Subject	Ca	VerCr	Doc-2nd-Level	Workitem
SP-050047	32.632	014	--	Rel-5	Align with 32.642, with regards to ExternalRncFunction	F	5.6.0	S5-058119	OAM-NIM
SP-050047	32.634	008	--	Rel-5	Align with 32.632, with regards to ExternalRncFunction	F	5.3.0	S5-058123	OAM-NIM
SP-050047	32.632	015	--	Rel-5	Align with 32.102, regarding the IS template and UML repertoire	F	5.6.0	S5-058120	OAM-NIM
SP-050047	32.632	016	--	Rel-6	Align with 32.151 and 32.152, regarding the IS template and UML repertoire	A	6.1.0	S5-058125	OAM-NIM
SP-050047	32.633	009	--	Rel-5	Align with 32.632, regarding the IS template and UML repertoire	F	5.2.0	S5-058121	OAM-NIM
SP-050047	32.633	010	--	Rel-6	Align with 32.632, regarding the IS template and UML repertoire	A	6.1.0	S5-058126	OAM-NIM
SP-050047	32.634	007	--	Rel-5	Align with 32.632, regarding the IS template and UML repertoire	F	5.3.0	S5-058122	OAM-NIM
SP-050047	32.634	009	--	Rel-6	Align with 32.632, regarding the IS template and UML repertoire	A	6.0.0	S5-058127	OAM-NIM
SP-050047	32.635	009	--	Rel-5	Align with 32.632, regarding the IS template and UML repertoire	F	5.4.0	S5-058124	OAM-NIM
SP-050047	32.635	010	--	Rel-6	Align with 32.632, regarding the IS template and UML repertoire	A	6.1.0	S5-058128	OAM-NIM
SP-050047	32.633	011	--	Rel-5	Correct List of Long Attributes	F	5.2.0	S5-058117	OAM-NIM
SP-050047	32.633	012	--	Rel-6	Correct List of Long Attributes	A	6.1.0	S5-058070	OAM-NIM
SP-050047	32.632	017	--	Rel-6	Add IMS Links to CN NRM Information Service	B	6.1.0	S5-058163	OAM-NIM
SP-050047	32.633	013	--	Rel-6	Add IMS links to CN NRM CORBA SS	B	6.1.0	S5-058166	OAM-NIM
SP-050047	32.635	011	--	Rel-6	Add IMS links and compile error corrections to coreNRM.xsd	B	6.1.0	S5-058167	OAM-NIM
SP-050047	32.634	010	--	Rel-6	Add the IMS objects - Align with 32.632 Configuration Management (CM); Core Network Resources IRP NRM	F	6.0.0	S5-058134	OAM-NIM
SP-050047	32.635	012	--	Rel-5	Correction to SgsnFunction XML and correct IS reference	F	5.4.0	S5-058086	OAM-NIM
SP-050047	32.635	013	--	Rel-6	Correction to SgsnFunction XML, correct IS reference and Editorial corrections	A	6.1.0	S5-058085	OAM-NIM

**3GPP TSG-SA5 (Telecom Management)
Meeting #41, Lisbon, PORTUGAL, 24-28 January 2005**

S5-058070

<i>CR-Form-v7</i>
<h2 style="margin: 0;">CHANGE REQUEST</h2>
⌘ 32.633 CR 012 ⌘ rev - ⌘ Current version: 6.1.0 ⌘

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

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

Title:	⌘ Correct List of Long Attributes																
Source:	⌘ SA5 (Motorola, trevor.pirt@motorola.com)																
Work item code:	⌘ OAM-NIM Date: ⌘ 28/1/2005																
Category:	⌘ A Release: ⌘ Rel-6 Use <u>one</u> of the following categories: <table style="width: 100%; margin-top: 5px;"> <tr> <td style="width: 50%;">F (correction)</td> <td style="width: 50%;">2 (GSM Phase 2)</td> </tr> <tr> <td>A (corresponds to a correction in an earlier release)</td> <td>R96 (Release 1996)</td> </tr> <tr> <td>B (addition of feature),</td> <td>R97 (Release 1997)</td> </tr> <tr> <td>C (functional modification of feature)</td> <td>R98 (Release 1998)</td> </tr> <tr> <td>D (editorial modification)</td> <td>R99 (Release 1999)</td> </tr> <tr> <td></td> <td>Rel-4 (Release 4)</td> </tr> <tr> <td></td> <td>Rel-5 (Release 5)</td> </tr> <tr> <td></td> <td>Rel-6 (Release 6)</td> </tr> </table> Detailed explanations of the above categories can be found in 3GPP TR 21.900 .	F (correction)	2 (GSM Phase 2)	A (corresponds to a correction in an earlier release)	R96 (Release 1996)	B (addition of feature),	R97 (Release 1997)	C (functional modification of feature)	R98 (Release 1998)	D (editorial modification)	R99 (Release 1999)		Rel-4 (Release 4)		Rel-5 (Release 5)		Rel-6 (Release 6)
F (correction)	2 (GSM Phase 2)																
A (corresponds to a correction in an earlier release)	R96 (Release 1996)																
B (addition of feature),	R97 (Release 1997)																
C (functional modification of feature)	R98 (Release 1998)																
D (editorial modification)	R99 (Release 1999)																
	Rel-4 (Release 4)																
	Rel-5 (Release 5)																
	Rel-6 (Release 6)																

Reason for change:	⌘ NRM list attributes are mapped to incorrect CORBA SS types.
Summary of change:	⌘ For MscServerFunction and SgsnFunction change NRM list attributes SS mapping from Long to LongSet type.
Consequences if not approved:	⌘ CORBA Solution Set is not aligned with NRM. It will not be possible to support list with more than one entry.

Clauses affected:	⌘ 5.2.1, 5.2.8					
Other specs affected:	<table border="1" style="border-collapse: collapse; text-align: center;"> <tr> <td style="width: 20px;">Y</td> <td style="width: 20px;">N</td> </tr> <tr> <td style="width: 20px;"><input type="checkbox"/></td> <td style="width: 20px;"><input checked="" type="checkbox"/></td> </tr> </table> Other core specifications	Y	N	<input type="checkbox"/>	<input checked="" type="checkbox"/>	⌘
Y	N					
<input type="checkbox"/>	<input checked="" type="checkbox"/>					
	<table border="1" style="border-collapse: collapse; text-align: center;"> <tr> <td style="width: 20px;">Y</td> <td style="width: 20px;">N</td> </tr> <tr> <td style="width: 20px;"><input type="checkbox"/></td> <td style="width: 20px;"><input checked="" type="checkbox"/></td> </tr> </table> Test specifications	Y	N	<input type="checkbox"/>	<input checked="" type="checkbox"/>	⌘
Y	N					
<input type="checkbox"/>	<input checked="" type="checkbox"/>					
	<table border="1" style="border-collapse: collapse; text-align: center;"> <tr> <td style="width: 20px;">Y</td> <td style="width: 20px;">N</td> </tr> <tr> <td style="width: 20px;"><input type="checkbox"/></td> <td style="width: 20px;"><input checked="" type="checkbox"/></td> </tr> </table> O&M Specifications	Y	N	<input type="checkbox"/>	<input checked="" type="checkbox"/>	⌘
Y	N					
<input type="checkbox"/>	<input checked="" type="checkbox"/>					
Other comments:	⌘ 					

Change in Clause 5.2.1

5.2.1 MOC MscServerFunction

Mapping from NRM MOC MscServerFunction attributes to SS equivalent MOC MscServerFunction attributes

NRM Attributes of MOC MscFunction in TS 32.632 [3]	SS Attributes	SS Type	Qualifier
mscServerFunctionId	mscServerFunctionId	string	Read-Only, M
userLabel	userLabel	string	Read- Write, M
mccList	mccList	GenericNetworkResourcesIRPSystem::AttributeTypes::LongSet long	Read-Write, M
mncList	mncList	GenericNetworkResourcesIRPSystem::AttributeTypes::LongSet long	Read-Write, M
lacList	lacList	GenericNetworkResourcesIRPSystem::AttributeTypes::LongSet long	Read-Write, M
sacList	sacList	GenericNetworkResourcesIRPSystem::AttributeTypes::LongSet long	Read-Write, M
gcaList	gcaList	GenericNetworkResourcesIRPSystem::AttributeTypes::LongSet long	Read-Write, M
mscId	mscId	long	Read-Write, M
Associated With/ mscServerFunction-GSMcell	mscServerFunction-GSMcell	GenericNRIRPSystem::AttributeTypes::MOReference	Read-Only, M
Associated With/ mscServerFunction-ExternalGSMcell	mscServerFunction-ExternalGSMcell	GenericNRIRPSystem::AttributeTypes::MOReference	Read-Only, M
Associated With/ mscServerFunction-CsMgwFunction	mscServerFunction-CsMgwFunction	GenericNRIRPSystem::AttributeTypes::MOReferenceSet	Read-Only, M

End of Change in Clause 5.2.1

Change in Clause 5.2.8

5.2.8 MOC SgsnFunction

Mapping from NRM MOC SgsnFunction attributes to SS equivalent MOC SgsnFunction attributes

NRM Attributes of MOC SgsnFunction in TS 32.632 [3]	SS Attributes	SS Type	Qualifier
sgsnFunctionId	sgsnFunctionId	string	Read-Only, M
userLabel	userLabel	string	Read-Write, M
mcclList	mcclList	GenericNetworkResourcesIRPSystem::AttributeTypes::LongSet long	Read-Write, M
mncList	mncList	GenericNetworkResourcesIRPSystem::AttributeTypes::LongSet long	Read-Write, M
lacList	lacList	GenericNetworkResourcesIRPSystem::AttributeTypes::LongSet long	Read-Write, M
racList	racList	GenericNetworkResourcesIRPSystem::AttributeTypes::LongSet long	Read-Write, M
sacList	sacList	GenericNetworkResourcesIRPSystem::AttributeTypes::LongSet long	Read-Write, M
sgsnId	sgsnId	long	Read-Write, M
Associated With/ sgsnFunction-GSMCell	sgsnFunction-GSMCell	GenericNRIRPSystem::AttributeTypes::MOREference	Read-Only, M
Associated With/ sgsnFunction-ExternalGSMCell	sgsnFunction-ExternalGSMCell	GenericNRIRPSystem::AttributeTypes::MOREference	Read-Only, M
proceduralStatus	There is no corresponding SS attribute.		

End of Change in Clause 5.2.8
End of document

Annex B (informative): Change history

Change history							
Date	TSG #	TSG Doc.	CR	Rev	Subject/Comment	Old	New
Sep 2004	S_25	SP-040582	005	--	Correction of modelling of Media GateWay (MGW)	5.1.0	5.2.0
Sep 2004	S_25	SP-040581	006	--	Add Inheritance in CORBA IDL	5.2.0	6.0.0
Dec 2004	S_26	SP-040809	007	--	Add new IMS Entities	6.0.0	6.1.0
Dec 2004	S_26	SP-040809	008	--	Add restart notification to GSN objects using "proceduralStatus" attribute - Align with IS in 32.632	6.0.0	6.1.0

**3GPP TSG-SA5 (Telecom Management)
Meeting #41, Lisbon, PORTUGAL, 24 - 28 January 2005**

Tdoc # S5-058085

CR-Form-v7.1

CHANGE REQUEST

⌘ **32.635 CR 013** ⌘ rev **-** ⌘ Current version: **6.1.0** ⌘

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

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

Title:	⌘ Correction to SgsnFunction XML, correct IS reference and Editorial corrections		
Source:	⌘ SA5 (Ericsson john.power@ericsson.com)		
Work item code:	⌘ OAM-NIM	Date:	⌘ 28/01/2005
Category:	⌘ A	Release:	⌘ Rel-6
	Use <u>one</u> of the following categories: F (correction) A (corresponds to a correction in an earlier release) B (addition of feature), C (functional modification of feature) D (editorial modification) Detailed explanations of the above categories can be found in 3GPP TR 21.900 .		Use <u>one</u> of the following releases: Ph2 (GSM Phase 2) R96 (Release 1996) R97 (Release 1997) R98 (Release 1998) R99 (Release 1999) Rel-4 (Release 4) Rel-5 (Release 5) Rel-6 (Release 6) Rel-7 (Release 7)

Reason for change:	⌘ Error in XML for SGSNFunction. Redundant Rel-5 text remains in the spec. Schema location URL is incorrect
Summary of change:	⌘ Remove the "cn:" before "sgsnFunctionExternalGSMcell". Removal of redundant Rel-5 text. Update the schema location URL
Consequences if not approved:	⌘ Core NRM XML is not usable. Rel-6 specification contains Rel-5 specific information. Wrong schema location is indicated in the specification.

Clauses affected:	⌘ Annex A, Annex B										
Other specs affected:	<table border="1"> <tr> <td>Y</td> <td>N</td> </tr> <tr> <td></td> <td>X</td> </tr> <tr> <td></td> <td>X</td> </tr> <tr> <td></td> <td>X</td> </tr> </table>	Y	N		X		X		X	Other core specifications Test specifications O&M Specifications	⌘
Y	N										
	X										
	X										
	X										
Other comments:	⌘ Mirror to corresponding Rel-5 CR										

Change in Clause Annex A

Annex A (normative): Configuration data file NRM-specific XML schema (file name "coreNrm.xsd")

The following XML schema coreNrm.xsd is the NRM-specific schema for the Core Network Resources IRP NRM defined in 3GPP TS 32.632 [1]:

```
<?xml version="1.0" encoding="UTF-8"?>

<!--
  3GPP TS 32.635 Core Network Resources IRP
  Bulk CM Configuration data file NRM-specific XML schema
  coreNrm.xsd
-->

<schema
  targetNamespace=
"http://www.3gpp.org/ftp/specs/archive/32_series/32.635#coreNrm"
  elementFormDefault="qualified"
  xmlns="http://www.w3.org/2001/XMLSchema"
  xmlns:xn=
"http://www.3gpp.org/ftp/specs/archive/32_series/32.625#genericNrm"
  xmlns:cn=
"http://www.3gpp.org/ftp/specs/archive/32_series/32.635#coreNrm"
>

  <import
    namespace=
"http://www.3gpp.org/ftp/specs/archive/32_series/32.625#genericNrm"
  />

  <!-- Core Network Resources IRP NRM class associated XML elements -->

  <element
    name="MscServerFunction"
    substitutionGroup="xn:ManagedElementOptionallyContainedNrmClass"
  >
    <complexType>
      <complexContent>
        <extension base="xn:NrmClass">
          <sequence>
            <element name="attributes" minOccurs="0">
              <complexType>
                <all>
                  <element name="userLabel" minOccurs="0"/>
                  <element name="mccList" minOccurs="0"/>
                  <element name="mncList" minOccurs="0"/>
                  <element name="lacList" minOccurs="0"/>
                  <element name="sacList" minOccurs="0"/>
                  <element name="gcaList" minOccurs="0"/>
                  <element name="mscId" minOccurs="0"/>
                </all>
              </complexType>
            </element>
          </sequence>
          <choice minOccurs="0" maxOccurs="unbounded">

```

```

        <element name="mscServerFunctionGSMcell"/>
        <element name="mscServerFunctionExternalGSMcell"/>
        <element name="mscServerFunctionCsMgwFunction"/>
        <element ref="xn:VsDataContainer"/>
    </choice>
</sequence>
</extension>
</complexContent>
</complexType>
</element>

<element
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  substitutionGroup="xn:ManagedElementOptionallyContainedNrmClass"
>
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    <complexContent>
      <extension base="xn:NrmClass">
        <sequence>
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            <complexType>
              <all>
                <element name="userLabel" minOccurs="0"/>
              </all>
            </complexType>
          </element>
          <choice minOccurs="0" maxOccurs="unbounded">
            <element ref="xn:VsDataContainer"/>
          </choice>
        </sequence>
      </extension>
    </complexContent>
  </complexType>
</element>

<element
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>
  <complexType>
    <complexContent>
      <extension base="xn:NrmClass">
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            <complexType>
              <all>
                <element name="userLabel" minOccurs="0"/>
              </all>
            </complexType>
          </element>
          <choice minOccurs="0" maxOccurs="unbounded">
            <element ref="xn:VsDataContainer"/>
          </choice>
        </sequence>
      </extension>
    </complexContent>
  </complexType>
</element>

<element
  name="AucFunction"
  substitutionGroup="xn:ManagedElementOptionallyContainedNrmClass"
>

```

```

<complexType>
  <complexContent>
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        <element name="attributes" minOccurs="0">
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            <all>
              <element name="userLabel" minOccurs="0"/>
            </all>
          </complexType>
        </element>
        <choice minOccurs="0" maxOccurs="unbounded">
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        </choice>
      </sequence>
    </extension>
  </complexContent>
</complexType>
</element>

<element
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  substitutionGroup="xn:ManagedElementOptionallyContainedNrmClass"
>
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    <complexContent>
      <extension base="xn:NrmClass">
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              <all>
                <element name="userLabel" minOccurs="0"/>
              </all>
            </complexType>
          </element>
          <choice minOccurs="0" maxOccurs="unbounded">
            <element ref="xn:VsDataContainer"/>
          </choice>
        </sequence>
      </extension>
    </complexContent>
  </complexType>
</element>

<element
  name="SmsIwmscFunction"
  substitutionGroup="xn:ManagedElementOptionallyContainedNrmClass"
>
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    <complexContent>
      <extension base="xn:NrmClass">
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          </element>
          <choice minOccurs="0" maxOccurs="unbounded">
            <element ref="xn:VsDataContainer"/>
          </choice>
        </sequence>
      </extension>
    </complexContent>
  </complexType>
</element>

```



```

        </extension>
    </complexContent>
</complexType>
</element>

<element
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  substitutionGroup="xn:ManagedElementOptionallyContainedNrmClass"
>
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    <complexContent>
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        <sequence>
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              </all>
            </complexType>
          </element>
          <choice minOccurs="0" maxOccurs="unbounded">
            <element ref="xn:VsDataContainer"/>
          </choice>
        </sequence>
      </extension>
    </complexContent>
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</element>

<element
  name="GmscFunction"
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>
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    <complexContent>
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              <all>
                <element name="userLabel" minOccurs="0"/>
              </all>
            </complexType>
          </element>
          <choice minOccurs="0" maxOccurs="unbounded">
            <element ref="xn:VsDataContainer"/>
          </choice>
        </sequence>
      </extension>
    </complexContent>
  </complexType>
</element>

<element
  name="SgsnFunction"
  substitutionGroup="xn:ManagedElementOptionallyContainedNrmClass"
>
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      <extension base="xn:NrmClass">
        <sequence>
          <element name="attributes" minOccurs="0">
            <complexType>

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```

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            <element name="userLabel" minOccurs="0"/>
            <element name="mccList" minOccurs="0"/>
            <element name="mncList" minOccurs="0"/>
            <element name="lacList" minOccurs="0"/>
            <element name="racList" minOccurs="0"/>
            <element name="sacList" minOccurs="0"/>
            <element name="sgsnId" minOccurs="0"/>
        </all>
    </complexType>
</element>
<choice minOccurs="0" maxOccurs="unbounded">
    <element name="sgsnFunctionGSMcell"/>
    <element name="en-ensgsnFunctionExternalGSMcell"/>
    <element ref="xn:VsDataContainer"/>
</choice>
</sequence>
</extension>
</complexContent>
</complexType>
</element>

<element
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    substitutionGroup="xn:ManagedElementOptionallyContainedNrmClass"
>
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        <complexContent>
            <extension base="xn:NrmClass">
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                        </complexType>
                    </element>
                    <choice minOccurs="0" maxOccurs="unbounded">
                        <element ref="xn:VsDataContainer"/>
                    </choice>
                </sequence>
            </extension>
        </complexContent>
    </complexType>
</element>

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                        <element ref="xn:VsDataContainer"/>
                    </choice>
                </sequence>
            </extension>
        </complexContent>
    </complexType>
</element>

```

```

        </choice>
      </sequence>
    </extension>
  </complexContent>
</complexType>
</element>

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    <complexContent>
      <extension base="xn:NrmClass">
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              <all>
                <element name="userLabel" minOccurs="0"/>
              </all>
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          </element>
          <choice minOccurs="0" maxOccurs="unbounded">
            <element ref="xn:VsDataContainer"/>
          </choice>
        </sequence>
      </extension>
    </complexContent>
  </complexType>
</element>

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  >
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    <complexContent>
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              <all>
                <element name="userLabel" minOccurs="0"/>
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          </element>
          <choice minOccurs="0" maxOccurs="unbounded">
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          </choice>
        </sequence>
      </extension>
    </complexContent>
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</element>

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  >
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        <sequence>

```

```

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        <all>
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        </all>
      </complexType>
    </element>
    <choice minOccurs="0" maxOccurs="unbounded">
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  </sequence>
</extension>
</complexContent>
</complexType>
</element>

<element name="IucsLink">
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          </element>
          <choice minOccurs="0" maxOccurs="unbounded">
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              </all>
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          <choice minOccurs="0" maxOccurs="unbounded">
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```

```

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              <all>
                <element name="userLabel" minOccurs="0"/>
                <element name="connectedRnc" minOccurs="0"/>
              </all>
            </complexType>
          </element>
          <choice minOccurs="0" maxOccurs="unbounded">
            <element ref="xn:VsDataContainer"/>
          </choice>
        </sequence>
      </extension>
    </complexContent>
  </complexType>
</element>

```

```

<element name="ALink">
  <complexType>
    <complexContent>
      <extension base="xn:NrmClass">
        <sequence>
          <element name="attributes" minOccurs="0">
            <complexType>
              <all>
                <element name="userLabel" minOccurs="0"/>
                <element name="connectedBss" minOccurs="0"/>
              </all>
            </complexType>
          </element>
          <choice minOccurs="0" maxOccurs="unbounded">
            <element ref="xn:VsDataContainer"/>
          </choice>
        </sequence>
      </extension>
    </complexContent>
  </complexType>
</element>

```

```

<element name="GbLink">
  <complexType>
    <complexContent>
      <extension base="xn:NrmClass">
        <sequence>
          <element name="attributes" minOccurs="0">
            <complexType>
              <all>
                <element name="userLabel" minOccurs="0"/>
                <element name="connectedBss" minOccurs="0"/>
              </all>
            </complexType>
          </element>
          <choice minOccurs="0" maxOccurs="unbounded">
            <element ref="xn:VsDataContainer"/>
          </choice>
        </sequence>
      </extension>
    </complexContent>
  </complexType>
</element>

```

```

    </complexType>
  </element>

  <element
    name="SrfFunction"
    substitutionGroup="xn:ManagedElementOptionallyContainedNrmClass"
  >
    <complexType>
      <complexContent>
        <extension base="xn:NrmClass">
          <sequence>
            <element name="attributes" minOccurs="0">
              <complexType>
                <all>
                  <element name="userLabel" minOccurs="0"/>
                </all>
              </complexType>
            </element>
            <choice minOccurs="0" maxOccurs="unbounded">
              <element ref="xn:VsDataContainer"/>
            </choice>
          </sequence>
        </extension>
      </complexContent>
    </complexType>
  </element>

  <element
    name="CbcFunction"
    substitutionGroup="xn:ManagedElementOptionallyContainedNrmClass"
  >
    <complexType>
      <complexContent>
        <extension base="xn:NrmClass">
          <sequence>
            <element name="attributes" minOccurs="0">
              <complexType>
                <all>
                  <element name="userLabel" minOccurs="0"/>
                </all>
              </complexType>
            </element>
            <choice minOccurs="0" maxOccurs="unbounded">
              <element ref="xn:VsDataContainer"/>
            </choice>
          </sequence>
        </extension>
      </complexContent>
    </complexType>
  </element>

  <element
    name="CgfFunction"
    substitutionGroup="xn:ManagedElementOptionallyContainedNrmClass"
  >
    <complexType>
      <complexContent>
        <extension base="xn:NrmClass">
          <sequence>
            <element name="attributes" minOccurs="0">
              <complexType>
                <all>

```

```

        <element name="userLabel" minOccurs="0"/>
    </all>
</complexType>
</element>
<choice minOccurs="0" maxOccurs="unbounded">
    <element ref="xn:VsDataContainer"/>
</choice>
</sequence>
</extension>
</complexContent>
</complexType>
</element>

<element
  name="ImsMgwFunction"
  substitutionGroup="xn:ManagedElementOptionallyContainedNrmClass"
>
  <complexType>
    <complexContent>
      <extension base="xn:NrmClass">
        <sequence>
          <element name="attributes" minOccurs="0">
            <complexType>
              <all>
                <element name="userLabel" minOccurs="0"/>
              </all>
            </complexType>
          </element>
          <choice minOccurs="0" maxOccurs="unbounded">
            <element ref="xn:VsDataContainer"/>
          </choice>
        </sequence>
      </extension>
    </complexContent>
  </complexType>
</element>

<element
  name="GmscServerFunction"
  substitutionGroup="xn:ManagedElementOptionallyContainedNrmClass"
>
  <complexType>
    <complexContent>
      <extension base="xn:NrmClass">
        <sequence>
          <element name="attributes" minOccurs="0">
            <complexType>
              <all>
                <element name="userLabel" minOccurs="0"/>
              </all>
            </complexType>
          </element>
          <choice minOccurs="0" maxOccurs="unbounded">
            <element ref="xn:VsDataContainer"/>
          </choice>
        </sequence>
      </extension>
    </complexContent>
  </complexType>
</element>

<element
  name="IwfFunction"

```

```

substitutionGroup="xn:ManagedElementOptionallyContainedNrmClass"
>
<complexType>
  <complexContent>
    <extension base="xn:NrmClass">
      <sequence>
        <element name="attributes" minOccurs="0">
          <complexType>
            <all>
              <element name="userLabel" minOccurs="0"/>
            </all>
          </complexType>
        </element>
        <choice minOccurs="0" maxOccurs="unbounded">
          <element ref="xn:VsDataContainer"/>
        </choice>
      </sequence>
    </extension>
  </complexContent>
</complexType>
</element>

<element
  name="MnpSrfFunction"
  substitutionGroup="xn:ManagedElementOptionallyContainedNrmClass"
>
  <complexType>
    <complexContent>
      <extension base="xn:NrmClass">
        <sequence>
          <element name="attributes" minOccurs="0">
            <complexType>
              <all>
                <element name="userLabel" minOccurs="0"/>
              </all>
            </complexType>
          </element>
          <choice minOccurs="0" maxOccurs="unbounded">
            <element ref="xn:VsDataContainer"/>
          </choice>
        </sequence>
      </extension>
    </complexContent>
  </complexType>
</element>

<element
  name="NpdbFunction"
  substitutionGroup="xn:ManagedElementOptionallyContainedNrmClass"
>
  <complexType>
    <complexContent>
      <extension base="xn:NrmClass">
        <sequence>
          <element name="attributes" minOccurs="0">
            <complexType>
              <all>
                <element name="userLabel" minOccurs="0"/>
              </all>
            </complexType>
          </element>
          <choice minOccurs="0" maxOccurs="unbounded">
            <element ref="xn:VsDataContainer"/>
          </choice>
        </sequence>
      </extension>
    </complexContent>
  </complexType>
</element>

```



```

        </choice>
    </sequence>
</extension>
</complexContent>
</complexType>
</element>

<element
  name="SgwFunction"
  substitutionGroup="xn:ManagedElementOptionallyContainedNrmClass"
>
  <complexType>
    <complexContent>
      <extension base="xn:NrmClass">
        <sequence>
          <element name="attributes" minOccurs="0">
            <complexType>
              <all>
                <element name="userLabel" minOccurs="0"/>
              </all>
            </complexType>
          </element>
          <choice minOccurs="0" maxOccurs="unbounded">
            <element ref="xn:VsDataContainer"/>
          </choice>
        </sequence>
      </extension>
    </complexContent>
  </complexType>
</element>

<element
  name="SsfFunction"
  substitutionGroup="xn:ManagedElementOptionallyContainedNrmClass"
>
  <complexType>
    <complexContent>
      <extension base="xn:NrmClass">
        <sequence>
          <element name="attributes" minOccurs="0">
            <complexType>
              <all>
                <element name="userLabel" minOccurs="0"/>
              </all>
            </complexType>
          </element>
          <choice minOccurs="0" maxOccurs="unbounded">
            <element ref="xn:VsDataContainer"/>
          </choice>
        </sequence>
      </extension>
    </complexContent>
  </complexType>
</element>

<element
  name="BsFunction"
  substitutionGroup="xn:ManagedElementOptionallyContainedNrmClass"
>
  <complexType>
    <complexContent>
      <extension base="xn:NrmClass">
        <sequence>

```

```

    <element name="attributes" minOccurs="0">
      <complexType>
        <all>
          <element name="userLabel" minOccurs="0"/>
        </all>
      </complexType>
    </element>
    <choice minOccurs="0" maxOccurs="unbounded">
      <element ref="xn:VsDataContainer"/>
    </choice>
  </sequence>
</extension>
</complexContent>
</complexType>
</element>

```

```

<element
  name="CsMgwFunction"
  substitutionGroup="xn:ManagedElementOptionallyContainedNrmClass"
>
  <complexType>
    <complexContent>
      <extension base="xn:NrmClass">
        <sequence>
          <element name="attributes" minOccurs="0">
            <complexType>
              <all>
                <element name="userLabel" minOccurs="0"/>
                <element name="csMgwFunctionMscServerFunction" minOccurs="0"/>
                <element name="csMgwFunctionIucsLink" minOccurs="0"/>
                <element name="csMgwFunctionALink" minOccurs="0"/>
              </all>
            </complexType>
          </element>
          <choice minOccurs="0" maxOccurs="unbounded">
            <element ref="xn:VsDataContainer"/>
          </choice>
        </sequence>
      </extension>
    </complexContent>
  </complexType>
</element>

```

```

<element
  name="ScscfFunction"
  substitutionGroup="xn:ManagedElementOptionallyContainedNrmClass"
>
  <complexType>
    <complexContent>
      <extension base="xn:NrmClass">
        <sequence>
          <element name="attributes" minOccurs="0">
            <complexType>
              <all>
                <element name="userLabel" minOccurs="0"/>
              </all>
            </complexType>
          </element>
          <choice minOccurs="0" maxOccurs="unbounded">
            <element ref="xn:VsDataContainer"/>
          </choice>
        </sequence>
      </extension>
    </complexContent>
  </complexType>
</element>

```

```

        </choice>
    </sequence>
</extension>
</complexContent>
</complexType>
</element>

<element
  name="PcscfFunction"
  substitutionGroup="xn:ManagedElementOptionallyContainedNrmClass"
  >
  <complexType>
    <complexContent>
      <extension base="xn:NrmClass">
        <sequence>
          <element name="attributes" minOccurs="0">
            <complexType>
              <all>
                <element name="userLabel" minOccurs="0"/>
              </all>
            </complexType>
          </element>
          <choice minOccurs="0" maxOccurs="unbounded">
            <element ref="xn:VsDataContainer"/>
          </choice>
        </sequence>
      </extension>
    </complexContent>
  </complexType>
</element>

<element
  name="IcscfFunction"
  substitutionGroup="xn:ManagedElementOptionallyContainedNrmClass"
  >
  <complexType>
    <complexContent>
      <extension base="xn:NrmClass">
        <sequence>
          <element name="attributes" minOccurs="0">
            <complexType>
              <all>
                <element name="userLabel" minOccurs="0"/>
              </all>
            </complexType>
          </element>
          <choice minOccurs="0" maxOccurs="unbounded">
            <element ref="xn:VsDataContainer"/>
          </choice>
        </sequence>
      </extension>
    </complexContent>
  </complexType>
</element>

<element
  name="SlfFunction"
  substitutionGroup="xn:ManagedElementOptionallyContainedNrmClass"
  >
  <complexType>
    <complexContent>
      <extension base="xn:NrmClass">
        <sequence>

```

```

    <element name="attributes" minOccurs="0">
      <complexType>
        <all>
          <element name="userLabel" minOccurs="0"/>
        </all>
      </complexType>
    </element>
    <choice minOccurs="0" maxOccurs="unbounded">
      <element ref="xn:VsDataContainer"/>
    </choice>
  </sequence>
</extension>
</complexContent>
</complexType>
</element>

```

```

<element
  name="BgcFunction"
  substitutionGroup="xn:ManagedElementOptionallyContainedNrmClass"
  >
  <complexType>
    <complexContent>
      <extension base="xn:NrmClass">
        <sequence>
          <element name="attributes" minOccurs="0">
            <complexType>
              <all>
                <element name="userLabel" minOccurs="0"/>
              </all>
            </complexType>
          </element>
          <choice minOccurs="0" maxOccurs="unbounded">
            <element ref="xn:VsDataContainer"/>
          </choice>
        </sequence>
      </extension>
    </complexContent>
  </complexType>
</element>

```

```

<element
  name="MrfcFunction"
  substitutionGroup="xn:ManagedElementOptionallyContainedNrmClass"
  >
  <complexType>
    <complexContent>
      <extension base="xn:NrmClass">
        <sequence>
          <element name="attributes" minOccurs="0">
            <complexType>
              <all>
                <element name="userLabel" minOccurs="0"/>
              </all>
            </complexType>
          </element>
          <choice minOccurs="0" maxOccurs="unbounded">
            <element ref="xn:VsDataContainer"/>
          </choice>
        </sequence>
      </extension>
    </complexContent>
  </complexType>
</element>

```

```

<element
  name="MrfpFunction"
  substitutionGroup="xn:ManagedElementOptionallyContainedNrmClass"
>
  <complexType>
    <complexContent>
      <extension base="xn:NrmClass">
        <sequence>
          <element name="attributes" minOccurs="0">
            <complexType>
              <all>
                <element name="userLabel" minOccurs="0"/>
              </all>
            </complexType>
          </element>
          <choice minOccurs="0" maxOccurs="unbounded">
            <element ref="xn:VsDataContainer"/>
          </choice>
        </sequence>
      </extension>
    </complexContent>
  </complexType>
</element>

```

```

<element
  name="AsFunction"
  substitutionGroup="xn:ManagedElementOptionallyContainedNrmClass"
>
  <complexType>
    <complexContent>
      <extension base="xn:NrmClass">
        <sequence>
          <element name="attributes" minOccurs="0">
            <complexType>
              <all>
                <element name="userLabel" minOccurs="0"/>
              </all>
            </complexType>
          </element>
          <choice minOccurs="0" maxOccurs="unbounded">
            <element ref="xn:VsDataContainer"/>
          </choice>
        </sequence>
      </extension>
    </complexContent>
  </complexType>
</element>

```

```

<element
  name="MgcfFunction"
  substitutionGroup="xn:ManagedElementOptionallyContainedNrmClass"
>
  <complexType>
    <complexContent>
      <extension base="xn:NrmClass">
        <sequence>
          <element name="attributes" minOccurs="0">
            <complexType>
              <all>
                <element name="userLabel" minOccurs="0"/>
              </all>
            </complexType>
          </element>
          <choice minOccurs="0" maxOccurs="unbounded">
            <element ref="xn:VsDataContainer"/>
          </choice>
        </sequence>
      </extension>
    </complexContent>
  </complexType>
</element>

```

```

        </complexType>
    </element>
    <choice minOccurs="0" maxOccurs="unbounded">
        <element ref="xn:VsDataContainer"/>
    </choice>
</sequence>
</extension>
</complexContent>
</complexType>
</element>

```

</schema>

End of Change in Clause Annex A

Change in Clause Annex B

Annex B (informative): XML schema electronic files

The electronic files corresponding to the normative XML schemas defined in the present document are available in native form in the following archive:

http://www.3gpp.org/ftp/specs/archive/32_series/32.635/schema/32635-6+20-XMLSchema.zip

**Change in Clause Annex B
End of Document**

Annex C (informative): Change history

Change history							
Date	TSG #	TSG Doc.	CR	Rev	Subject/Comment	Old	New
Jun 2002	S_16	SP-020298	--	--	Submitted to TSG SA #16 for Information	1.0.0	
Sep 2002	S_17	SP-020461	--	--	Submitted to TSG SA #17 for Approval	2.0.0	5.0.0
Jun 2003	S_20	SP-030287	001	--	Correction of Core NRM XML schema namespace URIs	5.0.0	5.1.0
Jun 2003	S_20	SP-030288	002	--	Generic NRM XML schema dependencies removal	5.0.0	5.1.0
Oct 2003	--	--	--	--	Attached to this TS the normative XML schema electronic files corresponding to June 2003 TS 32.635	5.1.0	5.1.1
Mar 2004	S_23	SP-040131	003	--	Add the capability to contain instances of VsDataContainer to some MOs - Align with the IS 32.632	5.1.1	5.2.0
Jun 2004	S_24	SP-040259	004	--	Removal of XML schema URI dependencies	5.2.0	5.3.0
Jun 2004	S_24	SP-040258	005	--	Correction of the annex related to XML schema electronic files publication	5.2.0	5.3.0
Sep 2004	S_25	SP-040583	006	--	Add missing elements in the Core Network XML file format definition	5.3.0	5.4.0
Sep 2004	S_25	SP-040582	007	--	Correction of modelling of Media GateWay (MGW)	5.3.0	5.4.0
Sep 2004	S_25	SP-040541	--	--	Automatic upgrade to Rel- 6 (no CR) as per request in SP-040541 SA5_presentation_SA_25.ppt (slide 17)	5.4.0	6.0.0
Dec 2004	S_26	SP-040809	008	--	Add new IMS Entities	6.0.0	6.1.0

CHANGE REQUEST

⌘ **32.635 CR 012** ⌘ rev **-** ⌘ Current version: **5.4.0** ⌘

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

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

Title:	⌘ Correction to SgsnFunction XML and correct IS reference		
Source:	⌘ SA5 (Ericsson john.power@ericsson.com)		
Work item code:	⌘ OAM-NIM	Date:	⌘ 28/01/2005
Category:	⌘ F	Release:	⌘ Rel-5
	Use <u>one</u> of the following categories: F (correction) A (corresponds to a correction in an earlier release) B (addition of feature), C (functional modification of feature) D (editorial modification) Detailed explanations of the above categories can be found in 3GPP TR 21.900 .		Use <u>one</u> of the following releases: 2 (GSM Phase 2) R96 (Release 1996) R97 (Release 1997) R98 (Release 1998) R99 (Release 1999) Rel-4 (Release 4) Rel-5 (Release 5) Rel-6 (Release 6)

Reason for change:	⌘ Error in XML for SGSNFunction. Scope refers to incorrect NRM version.
Summary of change:	⌘ Remove the "cn:" before "sgsnFunctionExternalGSMcell. Update the NRM reference.
Consequences if not approved:	⌘ Core NRM XML is not usable. Wrong NRM is referenced.

Clauses affected:	⌘ Scope, Annex A						
Other specs affected:	<table border="1" style="display: inline-table; border-collapse: collapse;"> <tr> <td style="width: 20px; text-align: center;">Y</td> <td style="width: 20px; text-align: center;">N</td> </tr> <tr> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> </tr> </table> Other core specifications	Y	N	<input type="checkbox"/>	<input checked="" type="checkbox"/>	⌘	
Y	N						
<input type="checkbox"/>	<input checked="" type="checkbox"/>						
	<table border="1" style="display: inline-table; border-collapse: collapse;"> <tr> <td style="width: 20px; text-align: center;">Y</td> <td style="width: 20px; text-align: center;">N</td> </tr> <tr> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> </tr> </table> Test specifications	Y	N	<input type="checkbox"/>	<input checked="" type="checkbox"/>	⌘	
Y	N						
<input type="checkbox"/>	<input checked="" type="checkbox"/>						
	<table border="1" style="display: inline-table; border-collapse: collapse;"> <tr> <td style="width: 20px; text-align: center;">Y</td> <td style="width: 20px; text-align: center;">N</td> </tr> <tr> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> </tr> </table> O&M Specifications	Y	N	<input type="checkbox"/>	<input checked="" type="checkbox"/>	⌘	
Y	N						
<input type="checkbox"/>	<input checked="" type="checkbox"/>						
Other comments:	⌘ There is a Rel-6 Mirror in a corresponding CR.						

Change in Clause Scope

1 Scope

The present document provides the NRM-specific part related to the Core Network Resources IRP NRM [1] of the XML file format definition for the Bulk Configuration Management IRP IS [2].

The main part of this XML file format definition is provided by 3GPP TS 32.615 [3].

Bulk CM XML file formats are based on XML [4], XML Schema [5] [6] [7] and XML Namespace [8] standards.

This File Format Definition specification is related to 3GPP TS 32.632 (V5.56.X).

End of Change in Clause Scope

Change in Clause Annex A

Annex A (normative): Configuration data file NRM-specific XML schema (file name "coreNrm.xsd")

The following XML schema `coreNrm.xsd` is the NRM-specific schema for the Core Network Resources IRP NRM defined in 3GPP TS 32.632 [1]:

```
<?xml version="1.0" encoding="UTF-8"?>

<!--
  3GPP TS 32.635 Core Network Resources IRP
  Bulk CM Configuration data file NRM-specific XML schema
  coreNrm.xsd
-->

<schema
  targetNamespace=
"http://www.3gpp.org/ftp/specs/archive/32_series/32.635#coreNrm"
  elementFormDefault="qualified"
  xmlns="http://www.w3.org/2001/XMLSchema"
  xmlns:xn=
"http://www.3gpp.org/ftp/specs/archive/32_series/32.625#genericNrm"
  xmlns:cn=
"http://www.3gpp.org/ftp/specs/archive/32_series/32.635#coreNrm"
>

  <import
    namespace=
"http://www.3gpp.org/ftp/specs/archive/32_series/32.625#genericNrm"
  />

  <!-- Core Network Resources IRP NRM class associated XML elements -->

  <element
    name="MscServerFunction"
    substitutionGroup="xn:ManagedElementOptionallyContainedNrmClass"
  >
    <complexType>
```



```

<complexContent>
  <extension base="xn:NrmClass">
    <sequence>
      <element name="attributes" minOccurs="0">
        <complexType>
          <all>
            <element name="userLabel" minOccurs="0"/>
            <element name="mccList" minOccurs="0"/>
            <element name="mncList" minOccurs="0"/>
            <element name="lacList" minOccurs="0"/>
            <element name="sacList" minOccurs="0"/>
            <element name="gcaList" minOccurs="0"/>
            <element name="mscId" minOccurs="0"/>
          </all>
        </complexType>
      </element>
      <choice minOccurs="0" maxOccurs="unbounded">
        <element name="mscServerFunctionGSMcell"/>
        <element name="mscServerFunctionExternalGSMcell"/>
        <element name="mscServerFunctionCsMgwFunction"/>
        <element ref="xn:VsDataContainer"/>
      </choice>
    </sequence>
  </extension>
</complexContent>
</complexType>
</element>

<element
  name="HlrFunction"
  substitutionGroup="xn:ManagedElementOptionallyContainedNrmClass"
>
  <complexType>
    <complexContent>
      <extension base="xn:NrmClass">
        <sequence>
          <element name="attributes" minOccurs="0">
            <complexType>
              <all>
                <element name="userLabel" minOccurs="0"/>
              </all>
            </complexType>
          </element>
          <choice minOccurs="0" maxOccurs="unbounded">
            <element ref="xn:VsDataContainer"/>
          </choice>
        </sequence>
      </extension>
    </complexContent>
  </complexType>
</element>

<element
  name="VlrFunction"
  substitutionGroup="xn:ManagedElementOptionallyContainedNrmClass"
>
  <complexType>
    <complexContent>
      <extension base="xn:NrmClass">
        <sequence>
          <element name="attributes" minOccurs="0">
            <complexType>
              <all>

```

```

                <element name="userLabel" minOccurs="0"/>
            </all>
        </complexType>
    </element>
    <choice minOccurs="0" maxOccurs="unbounded">
        <element ref="xn:VsDataContainer"/>
    </choice>
</sequence>
</extension>
</complexContent>
</complexType>
</element>

<element
  name="AucFunction"
  substitutionGroup="xn:ManagedElementOptionallyContainedNrmClass"
>
  <complexType>
    <complexContent>
      <extension base="xn:NrmClass">
        <sequence>
          <element name="attributes" minOccurs="0">
            <complexType>
              <all>
                <element name="userLabel" minOccurs="0"/>
              </all>
            </complexType>
          </element>
          <choice minOccurs="0" maxOccurs="unbounded">
            <element ref="xn:VsDataContainer"/>
          </choice>
        </sequence>
      </extension>
    </complexContent>
  </complexType>
</element>

<element
  name="EirFunction"
  substitutionGroup="xn:ManagedElementOptionallyContainedNrmClass"
>
  <complexType>
    <complexContent>
      <extension base="xn:NrmClass">
        <sequence>
          <element name="attributes" minOccurs="0">
            <complexType>
              <all>
                <element name="userLabel" minOccurs="0"/>
              </all>
            </complexType>
          </element>
          <choice minOccurs="0" maxOccurs="unbounded">
            <element ref="xn:VsDataContainer"/>
          </choice>
        </sequence>
      </extension>
    </complexContent>
  </complexType>
</element>

<element
  name="SmsIwmscFunction"

```

```

substitutionGroup="xn:ManagedElementOptionallyContainedNrmClass"
>
<complexType>
  <complexContent>
    <extension base="xn:NrmClass">
      <sequence>
        <element name="attributes" minOccurs="0">
          <complexType>
            <all>
              <element name="userLabel" minOccurs="0"/>
            </all>
          </complexType>
        </element>
        <choice minOccurs="0" maxOccurs="unbounded">
          <element ref="xn:VsDataContainer"/>
        </choice>
      </sequence>
    </extension>
  </complexContent>
</complexType>
</element>

<element
  name="SmsGmscFunction"
  substitutionGroup="xn:ManagedElementOptionallyContainedNrmClass"
>
  <complexType>
    <complexContent>
      <extension base="xn:NrmClass">
        <sequence>
          <element name="attributes" minOccurs="0">
            <complexType>
              <all>
                <element name="userLabel" minOccurs="0"/>
              </all>
            </complexType>
          </element>
          <choice minOccurs="0" maxOccurs="unbounded">
            <element ref="xn:VsDataContainer"/>
          </choice>
        </sequence>
      </extension>
    </complexContent>
  </complexType>
</element>

<element
  name="GmscFunction"
  substitutionGroup="xn:ManagedElementOptionallyContainedNrmClass"
>
  <complexType>
    <complexContent>
      <extension base="xn:NrmClass">
        <sequence>
          <element name="attributes" minOccurs="0">
            <complexType>
              <all>
                <element name="userLabel" minOccurs="0"/>
              </all>
            </complexType>
          </element>
          <choice minOccurs="0" maxOccurs="unbounded">
            <element ref="xn:VsDataContainer"/>
          </choice>
        </sequence>
      </extension>
    </complexContent>
  </complexType>
</element>

```

```

        </choice>
    </sequence>
</extension>
</complexContent>
</complexType>
</element>

<element
  name="SgsnFunction"
  substitutionGroup="xn:ManagedElementOptionallyContainedNrmClass"
  >
  <complexType>
    <complexContent>
      <extension base="xn:NrmClass">
        <sequence>
          <element name="attributes" minOccurs="0">
            <complexType>
              <all>
                <element name="userLabel" minOccurs="0"/>
                <element name="mccList" minOccurs="0"/>
                <element name="mncList" minOccurs="0"/>
                <element name="lacList" minOccurs="0"/>
                <element name="racList" minOccurs="0"/>
                <element name="sacList" minOccurs="0"/>
                <element name="sgsnId" minOccurs="0"/>
              </all>
            </complexType>
          </element>
          <choice minOccurs="0" maxOccurs="unbounded">
            <element name="sgsnFunctionGSMcell"/>
            <element name="en-sgsnFunctionExternalGSMcell" />
            <element ref="xn:VsDataContainer" />
          </choice>
        </sequence>
      </extension>
    </complexContent>
  </complexType>
</element>

<element
  name="GgsnFunction"
  substitutionGroup="xn:ManagedElementOptionallyContainedNrmClass"
  >
  <complexType>
    <complexContent>
      <extension base="xn:NrmClass">
        <sequence>
          <element name="attributes" minOccurs="0">
            <complexType>
              <all>
                <element name="userLabel" minOccurs="0"/>
              </all>
            </complexType>
          </element>
          <choice minOccurs="0" maxOccurs="unbounded">
            <element ref="xn:VsDataContainer" />
          </choice>
        </sequence>
      </extension>
    </complexContent>
  </complexType>
</element>

```

```

<element
  name="BgFunction"
  substitutionGroup="xn:ManagedElementOptionallyContainedNrmClass"
>
  <complexType>
    <complexContent>
      <extension base="xn:NrmClass">
        <sequence>
          <element name="attributes" minOccurs="0">
            <complexType>
              <all>
                <element name="userLabel" minOccurs="0"/>
              </all>
            </complexType>
          </element>
          <choice minOccurs="0" maxOccurs="unbounded">
            <element ref="xn:VsDataContainer"/>
          </choice>
        </sequence>
      </extension>
    </complexContent>
  </complexType>
</element>

<element
  name="SmlcFunction"
  substitutionGroup="xn:ManagedElementOptionallyContainedNrmClass"
>
  <complexType>
    <complexContent>
      <extension base="xn:NrmClass">
        <sequence>
          <element name="attributes" minOccurs="0">
            <complexType>
              <all>
                <element name="userLabel" minOccurs="0"/>
              </all>
            </complexType>
          </element>
          <choice minOccurs="0" maxOccurs="unbounded">
            <element ref="xn:VsDataContainer"/>
          </choice>
        </sequence>
      </extension>
    </complexContent>
  </complexType>
</element>

<element
  name="GmlcFunction"
  substitutionGroup="xn:ManagedElementOptionallyContainedNrmClass"
>
  <complexType>
    <complexContent>
      <extension base="xn:NrmClass">
        <sequence>
          <element name="attributes" minOccurs="0">
            <complexType>
              <all>
                <element name="userLabel" minOccurs="0"/>
              </all>
            </complexType>
          </element>
        </sequence>
      </extension>
    </complexContent>
  </complexType>
</element>

```

```

        <choice minOccurs="0" maxOccurs="unbounded">
            <element ref="xn:VsDataContainer"/>
        </choice>
    </sequence>
</extension>
</complexContent>
</complexType>
</element>

<element
    name="ScfFunction"
    substitutionGroup="xn:ManagedElementOptionallyContainedNrmClass"
>
    <complexType>
        <complexContent>
            <extension base="xn:NrmClass">
                <sequence>
                    <element name="attributes" minOccurs="0">
                        <complexType>
                            <all>
                                <element name="userLabel" minOccurs="0"/>
                            </all>
                        </complexType>
                    </element>
                    <choice minOccurs="0" maxOccurs="unbounded">
                        <element ref="xn:VsDataContainer"/>
                    </choice>
                </sequence>
            </extension>
        </complexContent>
    </complexType>
</element>

<element name="IucsLink">
    <complexType>
        <complexContent>
            <extension base="xn:NrmClass">
                <sequence>
                    <element name="attributes" minOccurs="0">
                        <complexType>
                            <all>
                                <element name="userLabel" minOccurs="0"/>
                                <element name="connectedRnc" minOccurs="0"/>
                                <element name="connectedBss" minOccurs="0"/>
                            </all>
                        </complexType>
                    </element>
                    <choice minOccurs="0" maxOccurs="unbounded">
                        <element ref="xn:VsDataContainer"/>
                    </choice>
                </sequence>
            </extension>
        </complexContent>
    </complexType>
</element>

<element name="IupsLink">
    <complexType>
        <complexContent>
            <extension base="xn:NrmClass">
                <sequence>
                    <element name="attributes" minOccurs="0">

```

```

        <complexType>
          <all>
            <element name="userLabel" minOccurs="0"/>
            <element name="connectedRnc" minOccurs="0"/>
            <element name="connectedBss" minOccurs="0"/>
          </all>
        </complexType>
      </element>
      <choice minOccurs="0" maxOccurs="unbounded">
        <element ref="xn:VsDataContainer"/>
      </choice>
    </sequence>
  </extension>
</complexContent>
</complexType>
</element>

<element name="IubcLink">
  <complexType>
    <complexContent>
      <extension base="xn:NrmClass">
        <sequence>
          <element name="attributes" minOccurs="0">
            <complexType>
              <all>
                <element name="userLabel" minOccurs="0"/>
                <element name="connectedRnc" minOccurs="0"/>
              </all>
            </complexType>
          </element>
          <choice minOccurs="0" maxOccurs="unbounded">
            <element ref="xn:VsDataContainer"/>
          </choice>
        </sequence>
      </extension>
    </complexContent>
  </complexType>
</element>

<element name="ALink">
  <complexType>
    <complexContent>
      <extension base="xn:NrmClass">
        <sequence>
          <element name="attributes" minOccurs="0">
            <complexType>
              <all>
                <element name="userLabel" minOccurs="0"/>
                <element name="connectedBss" minOccurs="0"/>
              </all>
            </complexType>
          </element>
          <choice minOccurs="0" maxOccurs="unbounded">
            <element ref="xn:VsDataContainer"/>
          </choice>
        </sequence>
      </extension>
    </complexContent>
  </complexType>
</element>

<element name="GbLink">
  <complexType>

```

```

<complexContent>
  <extension base="xn:NrmClass">
    <sequence>
      <element name="attributes" minOccurs="0">
        <complexType>
          <all>
            <element name="userLabel" minOccurs="0"/>
            <element name="connectedBss" minOccurs="0"/>
          </all>
        </complexType>
      </element>
      <choice minOccurs="0" maxOccurs="unbounded">
        <element ref="xn:VsDataContainer"/>
      </choice>
    </sequence>
  </extension>
</complexContent>
</complexType>
</element>

<element
  name="SrfFunction"
  substitutionGroup="xn:ManagedElementOptionallyContainedNrmClass"
>
  <complexType>
    <complexContent>
      <extension base="xn:NrmClass">
        <sequence>
          <element name="attributes" minOccurs="0">
            <complexType>
              <all>
                <element name="userLabel" minOccurs="0"/>
              </all>
            </complexType>
          </element>
          <choice minOccurs="0" maxOccurs="unbounded">
            <element ref="xn:VsDataContainer"/>
          </choice>
        </sequence>
      </extension>
    </complexContent>
  </complexType>
</element>

<element
  name="CbcFunction"
  substitutionGroup="xn:ManagedElementOptionallyContainedNrmClass"
>
  <complexType>
    <complexContent>
      <extension base="xn:NrmClass">
        <sequence>
          <element name="attributes" minOccurs="0">
            <complexType>
              <all>
                <element name="userLabel" minOccurs="0"/>
              </all>
            </complexType>
          </element>
          <choice minOccurs="0" maxOccurs="unbounded">
            <element ref="xn:VsDataContainer"/>
          </choice>
        </sequence>
      </extension>
    </complexContent>
  </complexType>
</element>

```



```

        </sequence>
    </extension>
</complexContent>
</complexType>
</element>

<element
  name="CgfFunction"
  substitutionGroup="xn:ManagedElementOptionallyContainedNrmClass"
>
  <complexType>
    <complexContent>
      <extension base="xn:NrmClass">
        <sequence>
          <element name="attributes" minOccurs="0">
            <complexType>
              <all>
                <element name="userLabel" minOccurs="0"/>
              </all>
            </complexType>
          </element>
          <choice minOccurs="0" maxOccurs="unbounded">
            <element ref="xn:VsDataContainer"/>
          </choice>
        </sequence>
      </extension>
    </complexContent>
  </complexType>
</element>

<element
  name="ImsMgwFunction"
  substitutionGroup="xn:ManagedElementOptionallyContainedNrmClass"
>
  <complexType>
    <complexContent>
      <extension base="xn:NrmClass">
        <sequence>
          <element name="attributes" minOccurs="0">
            <complexType>
              <all>
                <element name="userLabel" minOccurs="0"/>
              </all>
            </complexType>
          </element>
          <choice minOccurs="0" maxOccurs="unbounded">
            <element ref="xn:VsDataContainer"/>
          </choice>
        </sequence>
      </extension>
    </complexContent>
  </complexType>
</element>

<element
  name="GmscServerFunction"
  substitutionGroup="xn:ManagedElementOptionallyContainedNrmClass"
>
  <complexType>
    <complexContent>
      <extension base="xn:NrmClass">
        <sequence>
          <element name="attributes" minOccurs="0">

```

```

        <complexType>
          <all>
            <element name="userLabel" minOccurs="0"/>
          </all>
        </complexType>
      </element>
      <choice minOccurs="0" maxOccurs="unbounded">
        <element ref="xn:VsDataContainer"/>
      </choice>
    </sequence>
  </extension>
</complexContent>
</complexType>
</element>

<element
  name="IwfFunction"
  substitutionGroup="xn:ManagedElementOptionallyContainedNrmClass"
>
  <complexType>
    <complexContent>
      <extension base="xn:NrmClass">
        <sequence>
          <element name="attributes" minOccurs="0">
            <complexType>
              <all>
                <element name="userLabel" minOccurs="0"/>
              </all>
            </complexType>
          </element>
          <choice minOccurs="0" maxOccurs="unbounded">
            <element ref="xn:VsDataContainer"/>
          </choice>
        </sequence>
      </extension>
    </complexContent>
  </complexType>
</element>

<element
  name="MnpSrfFunction"
  substitutionGroup="xn:ManagedElementOptionallyContainedNrmClass"
>
  <complexType>
    <complexContent>
      <extension base="xn:NrmClass">
        <sequence>
          <element name="attributes" minOccurs="0">
            <complexType>
              <all>
                <element name="userLabel" minOccurs="0"/>
              </all>
            </complexType>
          </element>
          <choice minOccurs="0" maxOccurs="unbounded">
            <element ref="xn:VsDataContainer"/>
          </choice>
        </sequence>
      </extension>
    </complexContent>
  </complexType>
</element>

```

```

<element
  name="NpdbFunction"
  substitutionGroup="xn:ManagedElementOptionallyContainedNrmClass"
>
  <complexType>
    <complexContent>
      <extension base="xn:NrmClass">
        <sequence>
          <element name="attributes" minOccurs="0">
            <complexType>
              <all>
                <element name="userLabel" minOccurs="0"/>
              </all>
            </complexType>
          </element>
          <choice minOccurs="0" maxOccurs="unbounded">
            <element ref="xn:VsDataContainer"/>
          </choice>
        </sequence>
      </extension>
    </complexContent>
  </complexType>
</element>

<element
  name="SgwFunction"
  substitutionGroup="xn:ManagedElementOptionallyContainedNrmClass"
>
  <complexType>
    <complexContent>
      <extension base="xn:NrmClass">
        <sequence>
          <element name="attributes" minOccurs="0">
            <complexType>
              <all>
                <element name="userLabel" minOccurs="0"/>
              </all>
            </complexType>
          </element>
          <choice minOccurs="0" maxOccurs="unbounded">
            <element ref="xn:VsDataContainer"/>
          </choice>
        </sequence>
      </extension>
    </complexContent>
  </complexType>
</element>

<element
  name="SsfFunction"
  substitutionGroup="xn:ManagedElementOptionallyContainedNrmClass"
>
  <complexType>
    <complexContent>
      <extension base="xn:NrmClass">
        <sequence>
          <element name="attributes" minOccurs="0">
            <complexType>
              <all>
                <element name="userLabel" minOccurs="0"/>
              </all>
            </complexType>
          </element>
        </sequence>
      </extension>
    </complexContent>
  </complexType>
</element>

```

```

        <choice minOccurs="0" maxOccurs="unbounded">
            <element ref="xn:VsDataContainer"/>
        </choice>
    </sequence>
</extension>
</complexContent>
</complexType>
</element>

```

```

<element
    name="BsFunction"
    substitutionGroup="xn:ManagedElementOptionallyContainedNrmClass"
>
    <complexType>
        <complexContent>
            <extension base="xn:NrmClass">
                <sequence>
                    <element name="attributes" minOccurs="0">
                        <complexType>
                            <all>
                                <element name="userLabel" minOccurs="0"/>
                            </all>
                        </complexType>
                    </element>
                    <choice minOccurs="0" maxOccurs="unbounded">
                        <element ref="xn:VsDataContainer"/>
                    </choice>
                </sequence>
            </extension>
        </complexContent>
    </complexType>
</element>

```

```

<element
    name="CsMgwFunction"
    substitutionGroup="xn:ManagedElementOptionallyContainedNrmClass"
>
    <complexType>
        <complexContent>
            <extension base="xn:NrmClass">
                <sequence>
                    <element name="attributes" minOccurs="0">
                        <complexType>
                            <all>
                                <element name="userLabel" minOccurs="0"/>
                                <element name="csMgwFunctionMscServerFunction" minOccurs="0"/>
                                <element name="csMgwFunctionIucsLink" minOccurs="0"/>
                                <element name="csMgwFunctionALink" minOccurs="0"/>
                            </all>
                        </complexType>
                    </element>
                    <choice minOccurs="0" maxOccurs="unbounded">
                        <element ref="xn:VsDataContainer"/>
                    </choice>
                </sequence>
            </extension>
        </complexContent>
    </complexType>
</element>

```

</schema>

**End of Change in Clause Annex A
End of Document**

**Annex C (informative):
Change history**

Change history							
Date	TSG #	TSG Doc.	CR	Rev	Subject/Comment	Old	New
Jun 2002	S_16	SP-020298	--	--	Submitted to TSG SA #16 for Information	1.0.0	
Sep 2002	S_17	SP-020461	--	--	Submitted to TSG SA #17 for Approval	2.0.0	5.0.0
Jun 2003	S_20	SP-030287	001	--	Correction of Core NRM XML schema namespace URIs	5.0.0	5.1.0
Jun 2003	S_20	SP-030288	002	--	Generic NRM XML schema dependencies removal	5.0.0	5.1.0
Oct 2003	--	--	--	--	Attached to this TS the normative XML schema electronic files corresponding to June 2003 TS 32.635	5.1.0	5.1.1
Mar 2004	S_23	SP-040131	003	--	Add the capability to contain instances of VsDataContainer to some MOs - Align with the IS 32.632	5.1.1	5.2.0
Jun 2004	S_24	SP-040259	004	--	Removal of XML schema URI dependencies	5.2.0	5.3.0
Jun 2004	S_24	SP-040258	005	--	Correction of the annex related to XML schema electronic files publication	5.2.0	5.3.0
Sep 2004	S_25	SP-040583	006	--	Add missing elements in the Core Network XML file format definition	5.3.0	5.4.0
Sep 2004	S_25	SP-040582	007	--	Correction of modelling of Media GateWay (MGW)	5.3.0	5.4.0
Sep 2004	S_25	SP-040541	--	--	Automatic upgrade to Rel- 6 (no CR) as per request in SP-040541 SA5_presentation_SA_25.ppt (slide 17)	5.4.0	6.0.0

**3GPP TSG-SA5 (Telecom Management)
Meeting #41, Lisbon, PORTUGAL, 24-28 January 2005**

S5-058117

CR-Form-v7
<h2 style="margin: 0;">CHANGE REQUEST</h2>
⌘ 32.633 CR 011 ⌘ rev - ⌘ Current version: 5.2.0 ⌘

For [HELP](#) on using this form, see bottom of this page or look at the pop-up text over the ⌘ symbols.

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

Title:	⌘ Correct List of Long Attributes		
Source:	⌘ SA5 (Motorola, trevor.pirt@motorola.com)		
Work item code:	⌘ OAM-NIM	Date:	⌘ 28/1/2005
Category:	⌘ F	Release:	⌘ Rel-5
	Use <u>one</u> of the following categories:		Use <u>one</u> of the following releases:
	F (correction)		2 (GSM Phase 2)
	A (corresponds to a correction in an earlier release)		R96 (Release 1996)
	B (addition of feature),		R97 (Release 1997)
	C (functional modification of feature)		R98 (Release 1998)
	D (editorial modification)		R99 (Release 1999)
	Detailed explanations of the above categories can be found in 3GPP TR 21.900 .		Rel-4 (Release 4)
			Rel-5 (Release 5)
			Rel-6 (Release 6)

Reason for change:	⌘ NRM list attributes are mapped to incorrect CORBA SS types.
Summary of change:	⌘ For MscServerFunction and SgsnFunction change NRM list attributes SS mapping from Long to LongSet type.
Consequences if not approved:	⌘ CORBA Solution Set is not aligned with NRM. It will not be possible to support list with more than one entry.

Clauses affected:	⌘ 5.2.1, 5.2.8										
Other specs affected:	<table border="1" style="font-size: x-small;"> <tr> <td style="width: 20px;">Y</td> <td style="width: 20px;">N</td> </tr> <tr> <td style="text-align: center;">X</td> <td style="text-align: center;">X</td> </tr> <tr> <td style="text-align: center;">X</td> <td style="text-align: center;">X</td> </tr> <tr> <td style="text-align: center;">X</td> <td style="text-align: center;">X</td> </tr> </table>	Y	N	X	X	X	X	X	X	Other core specifications	⌘
	Y	N									
	X	X									
	X	X									
X	X										
Test specifications											
O&M Specifications											
Other comments:	⌘										

Change in Clause 5.2.1

5.2.1 MOC MscServerFunction

Table 1: Mapping from NRM MOC MscServerFunction attributes to SS equivalent MOC MscServerFunction attributes

NRM Attributes of MOC MscFunction in TS 32.632 [3]	SS Attributes	SS Type	Qualifier
mscServerFunctionId	mscServerFunctionId	string	Read-Only, M
userLabel	userLabel	string	Read- Write, M
mccList	mccList	GenericNetworkResourcesIRPSystem::AttributeTypes::LongSet long	Read-Write, M
mnclList	mnclList	GenericNetworkResourcesIRPSystem::AttributeTypes::LongSet long	Read-Write, M
lacList	lacList	GenericNetworkResourcesIRPSystem::AttributeTypes::LongSet long	Read-Write, M
sacList	sacList	GenericNetworkResourcesIRPSystem::AttributeTypes::LongSet long	Read-Write, M
gcaList	gcaList	GenericNetworkResourcesIRPSystem::AttributeTypes::LongSet long	Read-Write, M
mscId	mscId	long	Read-Write, M
Associated With/ mscServerFunction-GSMcell	mscServerFunction-GSMcell	GenericNRIRPSystem::AttributeTypes::MOReference	Read-Only, M
Associated With/ mscServerFunction-ExternalGSMcell	mscServerFunction-ExternalGSMcell	GenericNRIRPSystem::AttributeTypes::MOReference	Read-Only, M
Associated With/ mscServerFunction-CsMgwFunction	mscServerFunction-CsMgwFunction	GenericNRIRPSystem::AttributeTypes::MOReferenceSet	Read-Only, M

End of Change in Clause 5.2.1

Change in Clause 5.2.8

5.2.8 MOC SgsnFunction

Table 8: Mapping from NRM MOC SgsnFunction attributes to SS equivalent MOC SgsnFunction attributes

NRM Attributes of MOC SgsnFunction in TS 32.632 [3]	SS Attributes	SS Type	Qualifier
SgsnFunctionId	sgsnFunctionId	string	Read-Only, M
UserLabel	userLabel	string	Read-Write, M
mcclList	mcclList	GenericNetworkResources IRPSystem::AttributeTypes :: LongSet long	Read-Write, M
mnclList	mnclList	GenericNetworkResources IRPSystem::AttributeTypes :: LongSet long	Read-Write, M
laclList	laclList	GenericNetworkResources IRPSystem::AttributeTypes :: LongSet long	Read-Write, M
racList	racList	GenericNetworkResources IRPSystem::AttributeTypes :: LongSet long	Read-Write, M
sacList	sacList	GenericNetworkResources IRPSystem::AttributeTypes :: LongSet long	Read-Write, M
sgsnId	sgsnId	long	Read-Write, M
Associated With/ sgsnFunction-GSMCell	sgsnFunction-GSMCell	GenericNRIRPSystem::AttributeTypes::MOReference	Read-Only, M
Associated With/ sgsnFunction-ExternalGSMCell	sgsnFunction-ExternalGSMCell	GenericNRIRPSystem::AttributeTypes::MOReference	Read-Only, M

End of Change in Clause 5.2.8
End of document

Annex B (informative): Change history

Change history							
Date	TSG #	TSG Doc.	CR	Rev	Subject/Comment	Old	New
Jun 2001	S_12	SP-010283	--	--	Approved at TSG SA #12 and placed under Change Control	2.0.0	4.0.0
Jun 2002	S_16	SP-020302	001	--	Align with Rel-4 Network Architecture (23.002) by changing Roaming Signalling Gateway (R-SGW) to Signalling Gateway (SGW)	4.0.0	4.1.0
Sep 2002	S_17	SP-020489	002	--	Upgrade to Rel-5 the CORBA SS for Core Network NRM (add Managed Object Classes (MOCs))	4.1.0	5.0.0
Dec 2002	S_18	SP-020747	003	--	Removal of faulty attribute uraList (alignment with Rel-5 32.632 Network Resource Model)	5.0.0	5.1.0
Sep 2004	S_25	SP-040567	004	--	Correction in Rules for NRM extensions - Align with 32.622 (Generic NRM IS)	5.1.0	5.2.0
Sep 2004	S_25	SP-040582	005	--	Correction of modelling of Media GateWay (MGW)	5.1.0	5.2.0

CHANGE REQUEST

⌘ **32.632 CR 014** ⌘ rev **-** ⌘ Current version: **5.6.0** ⌘

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

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

Title:	⌘ Align with 32.642, with regards to ExternalRncFunction		
Source:	⌘ SA5 (robert.petersen@ericsson.com)		
Work item code:	⌘ OAM-NIM	Date:	⌘ 28/01/2005
Category:	⌘ F	Release:	⌘ Rel-5
	Use <u>one</u> of the following categories: F (correction) A (corresponds to a correction in an earlier release) B (addition of feature), C (functional modification of feature) D (editorial modification) Detailed explanations of the above categories can be found in 3GPP TR 21.900 .		Use <u>one</u> of the following releases: 2 (GSM Phase 2) R96 (Release 1996) R97 (Release 1997) R98 (Release 1998) R99 (Release 1999) Rel-4 (Release 4) Rel-5 (Release 5) Rel-6 (Release 6)

Reason for change:	⌘ The IOC ExternalRNCFUNCTION (which is supposed to be defined in 32.642) does not exist in 32.642.
Summary of change:	⌘ The IOC ExternalRNCFUNCTION and all relations to it are removed.
Consequences if not approved:	⌘ It would not be possible to fully comply to this specification.

Clauses affected:	⌘ 6.2.1, 6.4.7, 6.4.10 and 6.4.12.										
Other specs affected:	<table border="1" style="display: inline-table; border-collapse: collapse;"> <tr> <td style="width: 20px; text-align: center;">Y</td> <td style="width: 20px; text-align: center;">N</td> </tr> <tr> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> </tr> <tr> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> </tr> <tr> <td style="text-align: center;"><input checked="" type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> </tr> </table>	Y	N	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Other core specifications Test specifications O&M Specifications	⌘ 32.634 and 32.635
Y	N										
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<input type="checkbox"/>	<input checked="" type="checkbox"/>										
<input checked="" type="checkbox"/>	<input type="checkbox"/>										
Other comments:	⌘										

Change in Clause 6.2.1

6.2.1 Attributes and relationships

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

Figures 6.2.1.1 to 6.2.1.4 show the name-containment relation and other types of relations of the CN NRM.

NOTE 1: The name-containment relations between IOCs are indicated by UML "unidirectional aggregation by reference" ("hollow diamonds").

NOTE 2: The listed cardinality numbers represent transient as well as steady-state numbers, and reflect all managed object creation and deletion scenarios.

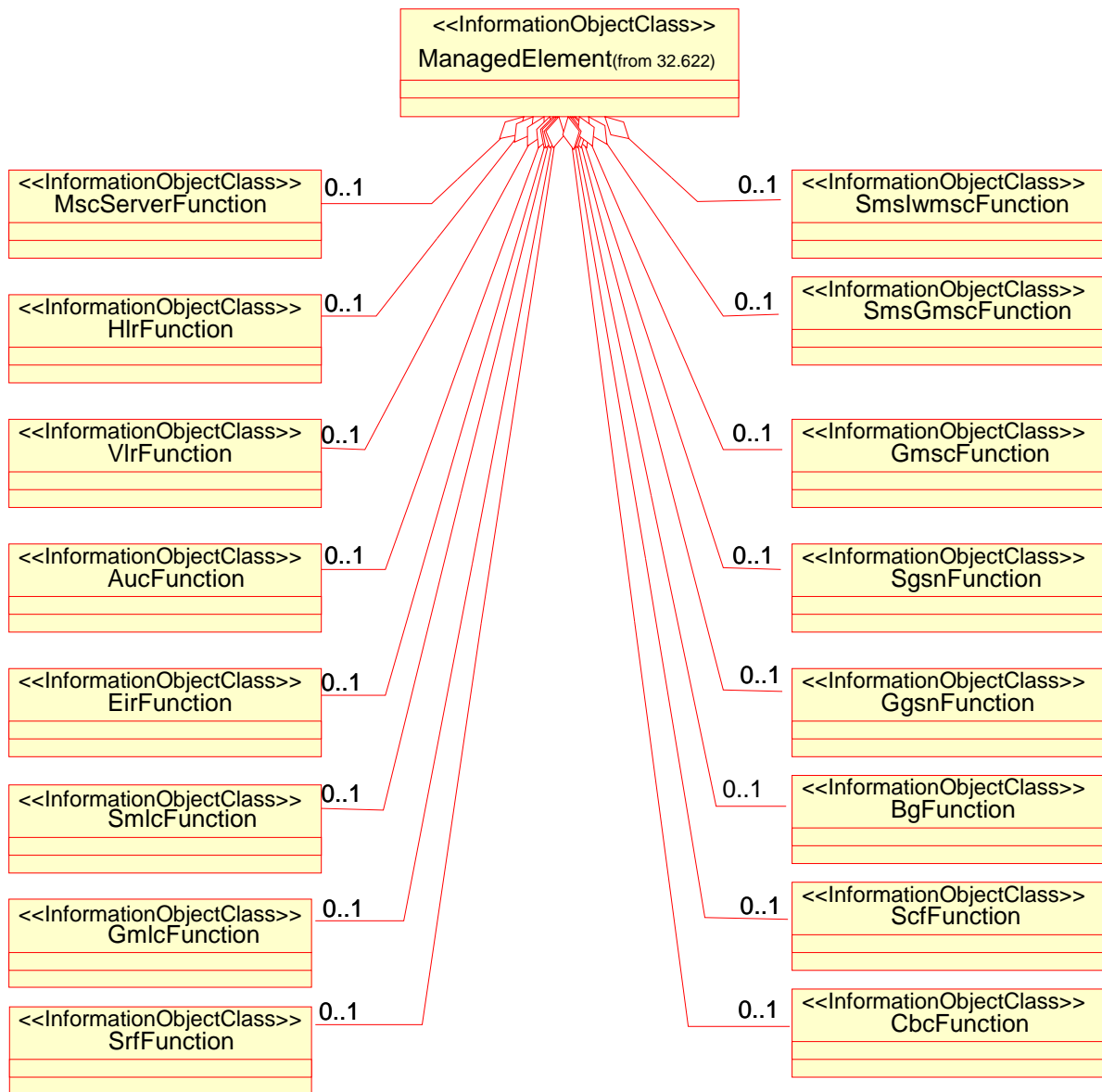


Figure 6.2.1.1: CN NRM Containment/Naming and Association (diagram 1)

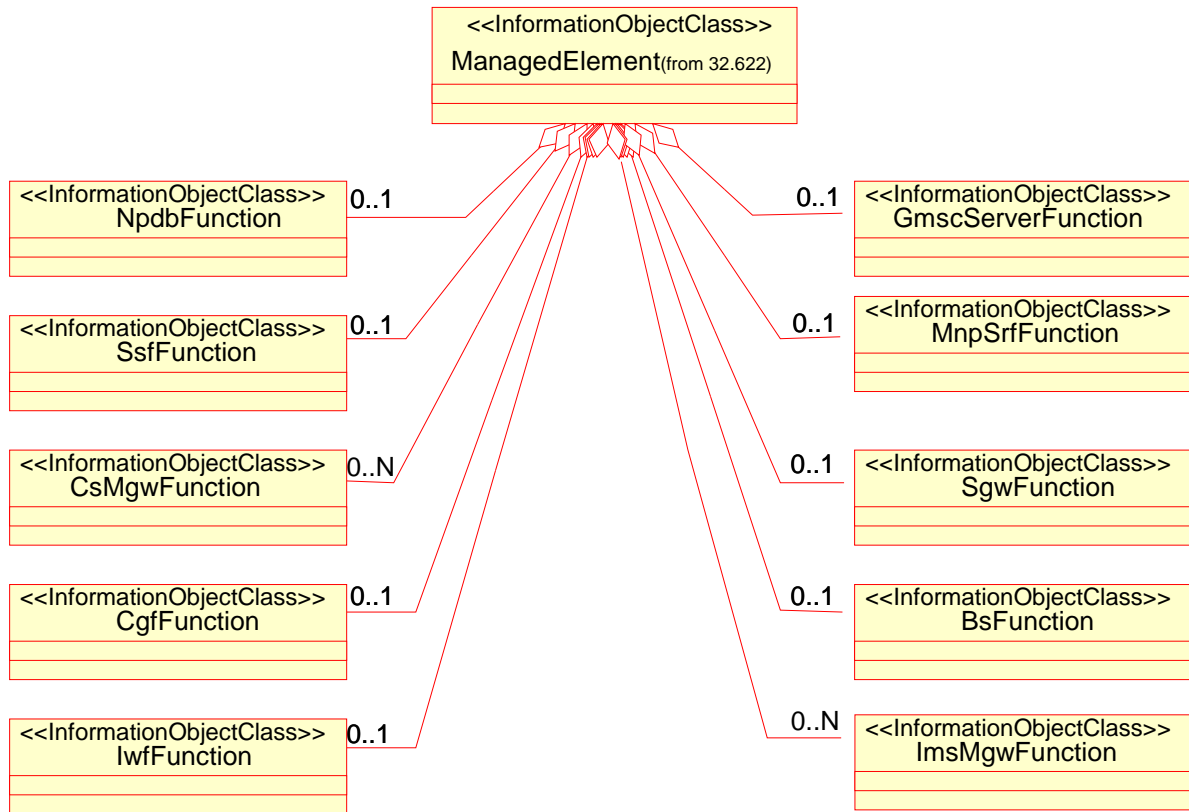


Figure 6.2.1.2: CN NRM Containment/Naming and Association (diagram 2)

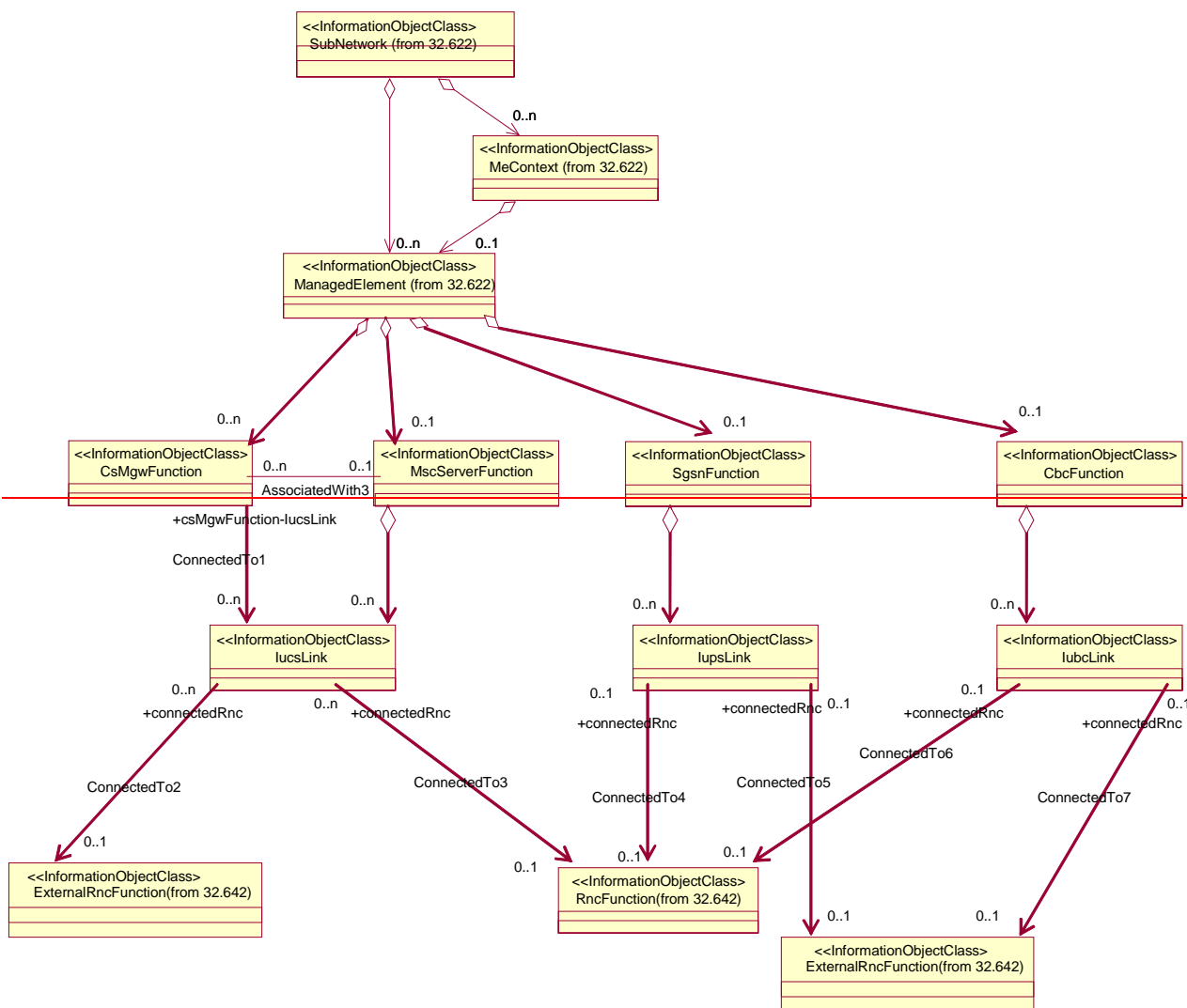
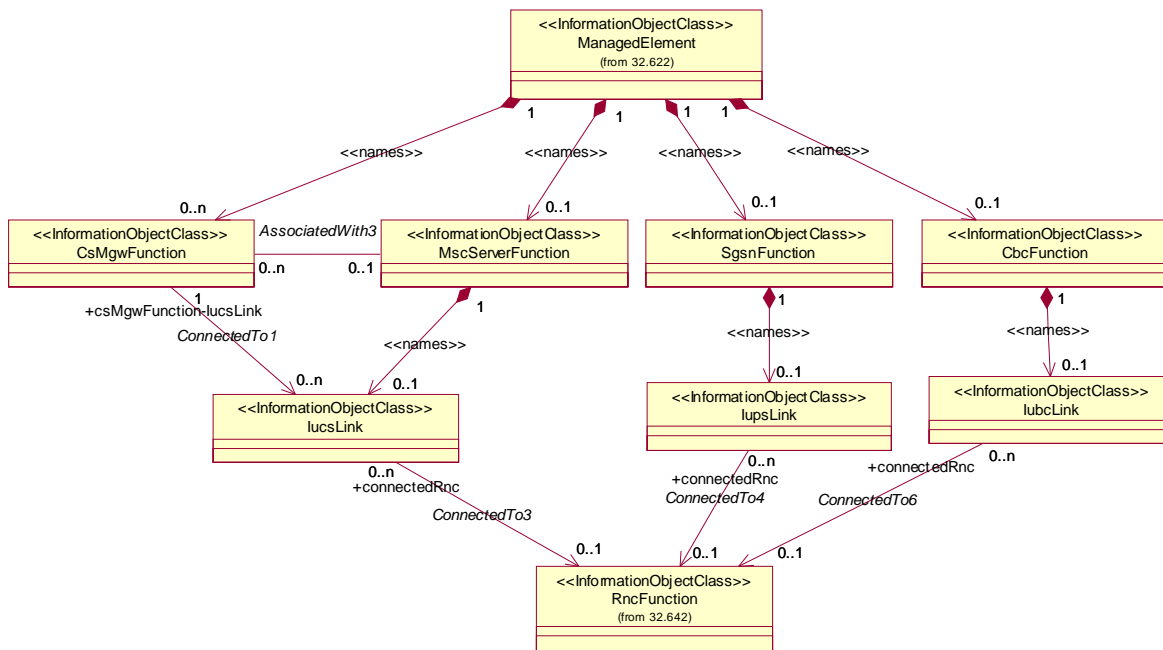
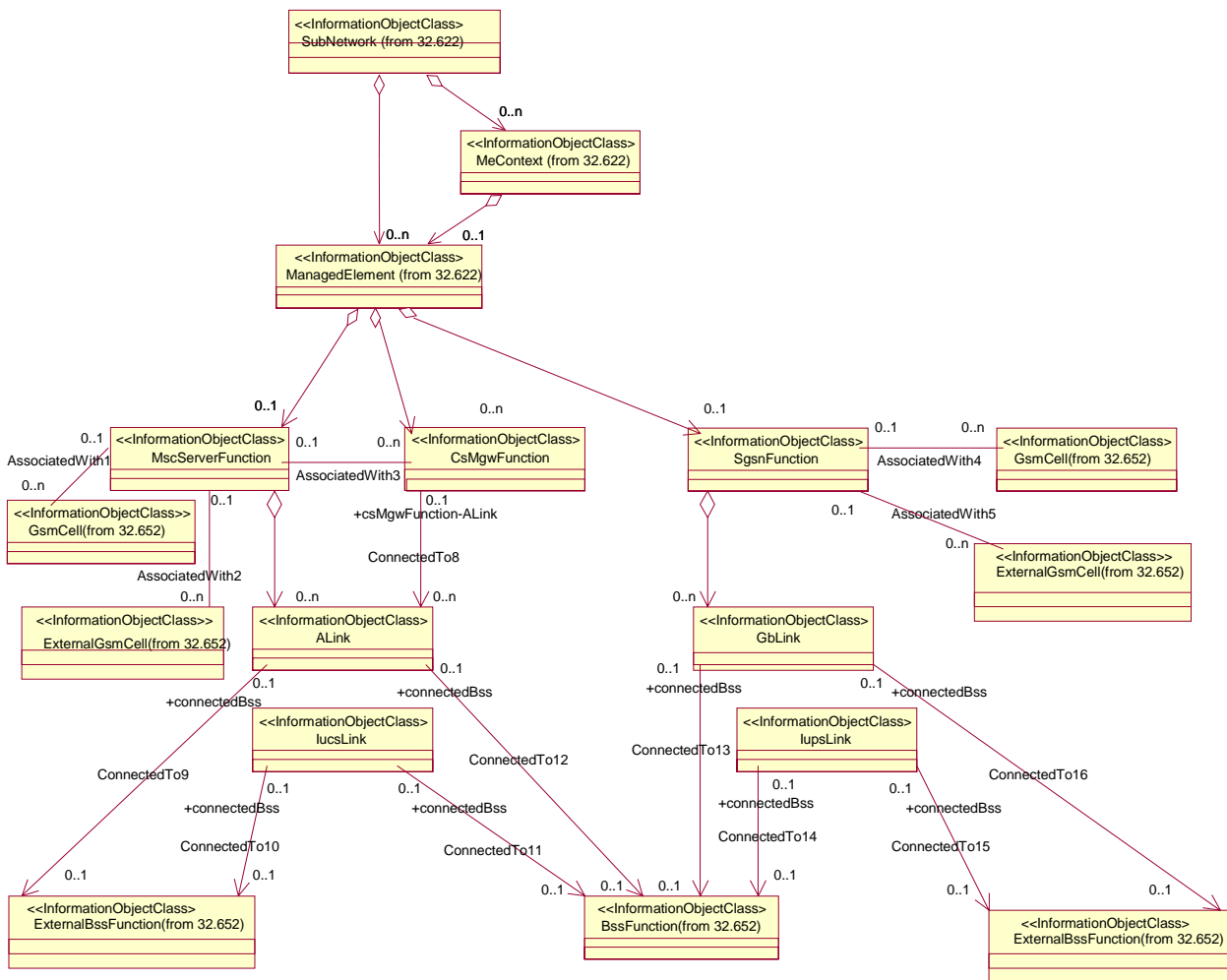


Figure 6.2.1.3: CN UTRAN NRM Containment/Naming and Association (diagram 3)



- NOTE 1: The association between MscServerFunction and GsmCell, and SgsnFunction and GsmCell is optional. It may be valid if both the MscServerFunction and GsmCell, or SgsnFunction and GsmCell are managed by the same management node.
- NOTE 2: The association between MscServerFunction 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.

End of Change in Clause 6.2.1

Change in Clause 6.4.7

6.4.7 ~~Void~~ConnectedTo2 (M)

6.4.7.1 ~~Definition~~

~~This represents a uni-directional relation between the lucsLink and ExternalRncFunction.~~

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

6.4.7.2 Roles

Table 6.4.7: Roles of the relation ConnectedTo2

Name	Definition
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

None.

End of Change in Clause 6.4.7

Change in Clause 6.4.10

6.4.10 VoidConnectedTo5 (M)

6.4.10.1 Definition

This represents a uni-directional relation between the lupsLink and ExternalRncFunction.

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

6.4.10.2 Roles

Table 6.4.10: Roles of the relation ConnectedTo5

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

6.4.10.3 Constraints

None.

End of Change in Clause 6.4.10

Change in Clause 6.4.12

6.4.12 VoidConnectedTo7 (M)

6.4.12.1 Definition

This represents a uni-directional relation between the lubeLink and ExternalRncFunction.

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

6.4.12.2 Roles

Table 6.4.12: Roles of the relation ConnectedTo7

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

6.4.12.3 Constraints

~~None.~~

End of Change in Clause 6.4.12

Annex A (informative): Change history

Change history							
Date	TSG #	TSG Doc.	CR	Rev	Subject/Comment	Old	New
Jun 2001	S_12	SP-010283	--	--	Approved at TSG SA #12 and placed under Change Control	2.0.0	4.0.0
Dec 2001	S_14	SP-010649	001	--	Removal of MOC FnrFunction from the diagrams	4.0.0	4.1.0
Jun 2002	S_16	SP-020302	002	--	Align with Rel-4 Network Architecture (23.002) by changing Roaming Signalling Gateway (R-SGW) to Signalling Gateway (SGW)	4.1.0	4.2.0
Sep 2002	S_17	SP-020489	003	--	Upgrade to Rel-5 the Network Resource Model for Core Network Management (add Managed Object Classes (MOCs)) [NOTE: Align with Rel-5 Network Architecture]	4.2.0	5.0.0
Dec 2002	S_18	SP-020747	004	--	Removal of faulty attribute uraList	5.0.0	5.1.0
Mar 2003	S_19	SP-030142	006	--	CN Network Resource Model changed to the New Methodology - alignment with 32.102 (Telecommunication management; Architecture)	5.1.0	5.2.0
Jun 2003	S_20	SP-030281	007	--	CN Network Resource Model changed to the New Methodology - alignment with 32.102	5.2.0	5.3.0
Sep 2003	S_21	SP-030419	009	--	Correction of Information Object Classes (IOCs) Notifications - Alignment with 32.102	5.3.0	5.4.0
Dec 2003	S_22	SP-030643	010	--	Remove redundant VsDataContainer Containment UML - Now Covered by 32.622	5.4.0	5.5.0
Sep 2004	S_25	SP-040582	011	--	Correction of modelling of Media GateWay (MGW) and of Class diagrams with respect to MSC and MGW functions	5.5.0	5.6.0

CHANGE REQUEST

⌘ **32.632 CR 015** ⌘ rev **-** ⌘ Current version: **5.6.0** ⌘

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

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

Title:	⌘ Align with 32.102, regarding the IS template and UML repertoire		
Source:	⌘ SA5 (robert.petersen@ericsson.com)		
Work item code:	⌘ OAM-NIM	Date:	⌘ 28/01/2005
Category:	⌘ F	Release:	⌘ Rel-5
	Use <u>one</u> of the following categories: F (correction) A (corresponds to a correction in an earlier release) B (addition of feature), C (functional modification of feature) D (editorial modification) Detailed explanations of the above categories can be found in 3GPP TR 21.900 .		Use <u>one</u> of the following releases: 2 (GSM Phase 2) R96 (Release 1996) R97 (Release 1997) R98 (Release 1998) R99 (Release 1999) Rel-4 (Release 4) Rel-5 (Release 5) Rel-6 (Release 6)

Reason for change:	⌘ The specification is not aligned with the IRP IS template in 32.102. ISes shall contain IOCs not MOCs. The specification should not contain information about Interface IRPs. The information about imported entities is missing.
Summary of change:	⌘ The title of clause 6 has been changed according to the IS template. The UML diagrams have been updated according to the UML repertoire. Managed object classes are changed to information object classes. Release dependant information is made general for all releases. Information valid for interface IRPs is removed. The information about the imported entities is added.
Consequences if not approved:	⌘ The specification would not be complete and it would be ambiguous.

Clauses affected:	⌘ 1, 3.1, 4, 6, 6.1, 6.2.1, 6.3.9.2, 6.3.31.2, 6.4 and 6.5.1.										
Other specs affected:	<table border="1" style="display: inline-table; border-collapse: collapse;"> <tr> <td style="width: 20px; text-align: center;">Y</td> <td style="width: 20px; text-align: center;">N</td> </tr> <tr> <td style="text-align: center;"> </td> <td style="text-align: center;">X</td> </tr> <tr> <td style="text-align: center;"> </td> <td style="text-align: center;">X</td> </tr> <tr> <td style="text-align: center;">X</td> <td style="text-align: center;"> </td> </tr> </table>	Y	N		X		X	X		Other core specifications Test specifications O&M Specifications	⌘ 32.633, 32.634 and 32.635
Y	N										
	X										
	X										
X											
Other comments:	⌘										

Change in Clause 1

1 Scope

The present document is part of an Integration Reference Point (IRP) named "Core Network Resources IRP", through which an 'IRPAgent' (typically an Element Manager or Network Element) can communicate Configuration Management information to one or several 'IRPManagers' (typically Network Managers) concerning CN resources. This version of the IRP is mainly intended for "passive management" of high-level network configuration and status information as required by a Network Manager. The "Core Network Resources IRP" comprises a set of specifications defining Requirements, a protocol neutral Network Resource Model (NRM) and corresponding Solution Set(s).

The present document specifies the protocol neutral Core Network Resources IRP: Network Resource Model. It reuses relevant parts of the generic NRM in 3GPP TS 32.622 [16], either by direct reuse or sub-classing, and in addition to that defines CN specific ~~Managed-Information~~ Object Classes.

The Configuration Management (CM) area is very large. The intention is to split the specification of the related interfaces in several IRPs - as described in the Introduction clause above. An important aspect of such a split is that the Network Resource Models (NRMs) defined in different IRPs containing NRMs are consistent, and that NRMs supported by an IRPAgent implementation can be accessed as one coherent model through one IRP Information Service (IS).

To summarize, the present document has the following main purpose: to define the applied CN specific Network Resource Model, based on the generic NRM in 3GPP TS 32.622 [16].

Finally, in order to access the information defined by this NRM, an IRP Information Service (IS) is needed, such as the Basic CM IRP: IS 3GPP TS 32.602 [17]. However, which Information Service that is applicable is outside the scope of the present document.

End of Change in Clause 1

Change in Clause 3.1

3.1 Definitions

For the purposes of the present document, the terms and definitions given in 3GPP TS 32.101 [1], 3GPP TS 32.102 [2], 3GPP TS 32.600 [14] and the following apply:

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

- (1) name bindings;
- (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).

Managed Element (ME): an instance of the ~~Managed-Information~~ Object Class Managed Element defined in 3GPP TS 32.622 [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. 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, 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). The

IOC may support the emission of *notifications* that provide information about an event occurrence within a network resource.

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

Network Resource Model (NRM): a model representing the actual managed telecommunications network resources that a System is providing through the subject IRP

An NRM identifies and describes IOCs, 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.

End of Change in Clause 3.1

Change in Clause 4

4 System overview

4.1 ~~Void~~System context

Figure 4.1 and figure 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 3GPP TS 32.102 [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.

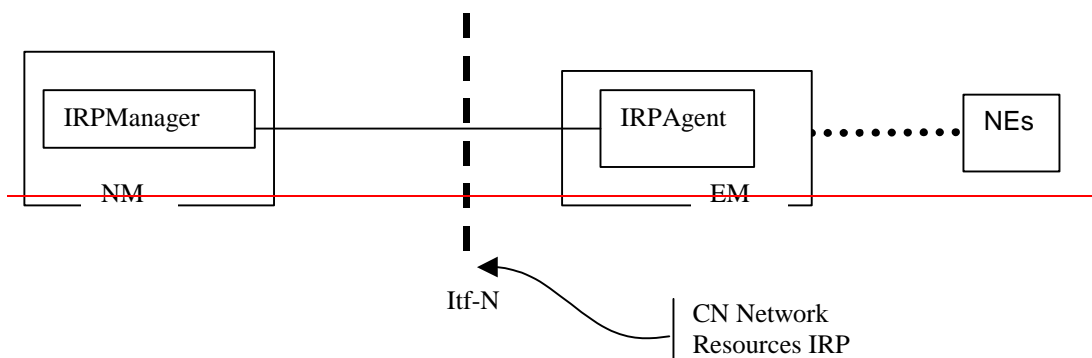


Figure 4.1: System Context A

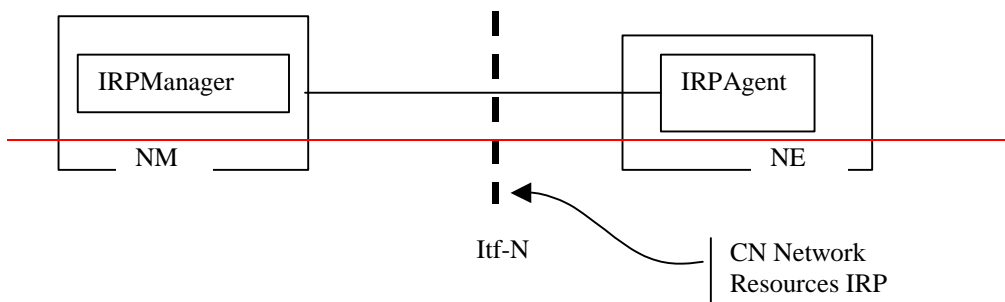


Figure 4.2: System Context B

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:

- 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 information object classes, attributes, ~~and associations, operations, parameters and notifications~~ and 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 recognized 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.

End of Change in Clause 4

Change in Clause 6

6 Information Object Classes (IOCs) ~~IRP Information Model~~

End of Change in Clause 6

Change in Clause 6.1

6.1 Information entities imported and local labels

<u>Label reference</u>	<u>Local label</u>
32.622 [3], information object class, ManagedElement	ManagedElement
32.642 [3], information object class, RncFunction	RncFunction
32.652 [3], information object class, GsmCell	GsmCell
32.652 [3], information object class, ExternalGsmCell	ExternalGsmCell
32.652 [3], information object class, ExternalBssFunction	ExternalBssFunction
32.652 [3], information object class, BssFunction	BssFunction

~~None.~~

End of Change in Clause 6.1

Change in Clause 6.2.1

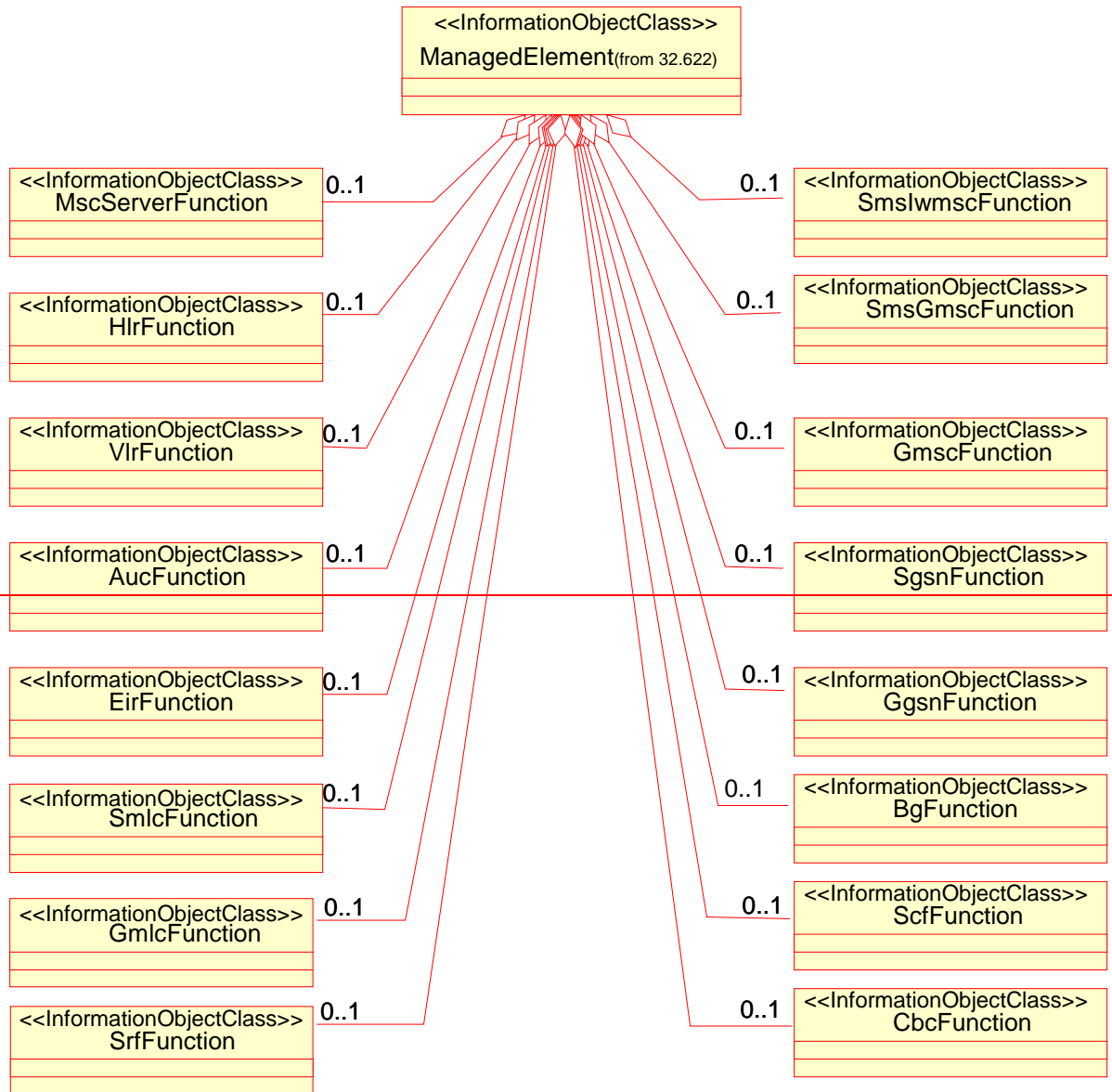
6.2.1 Attributes and relationships

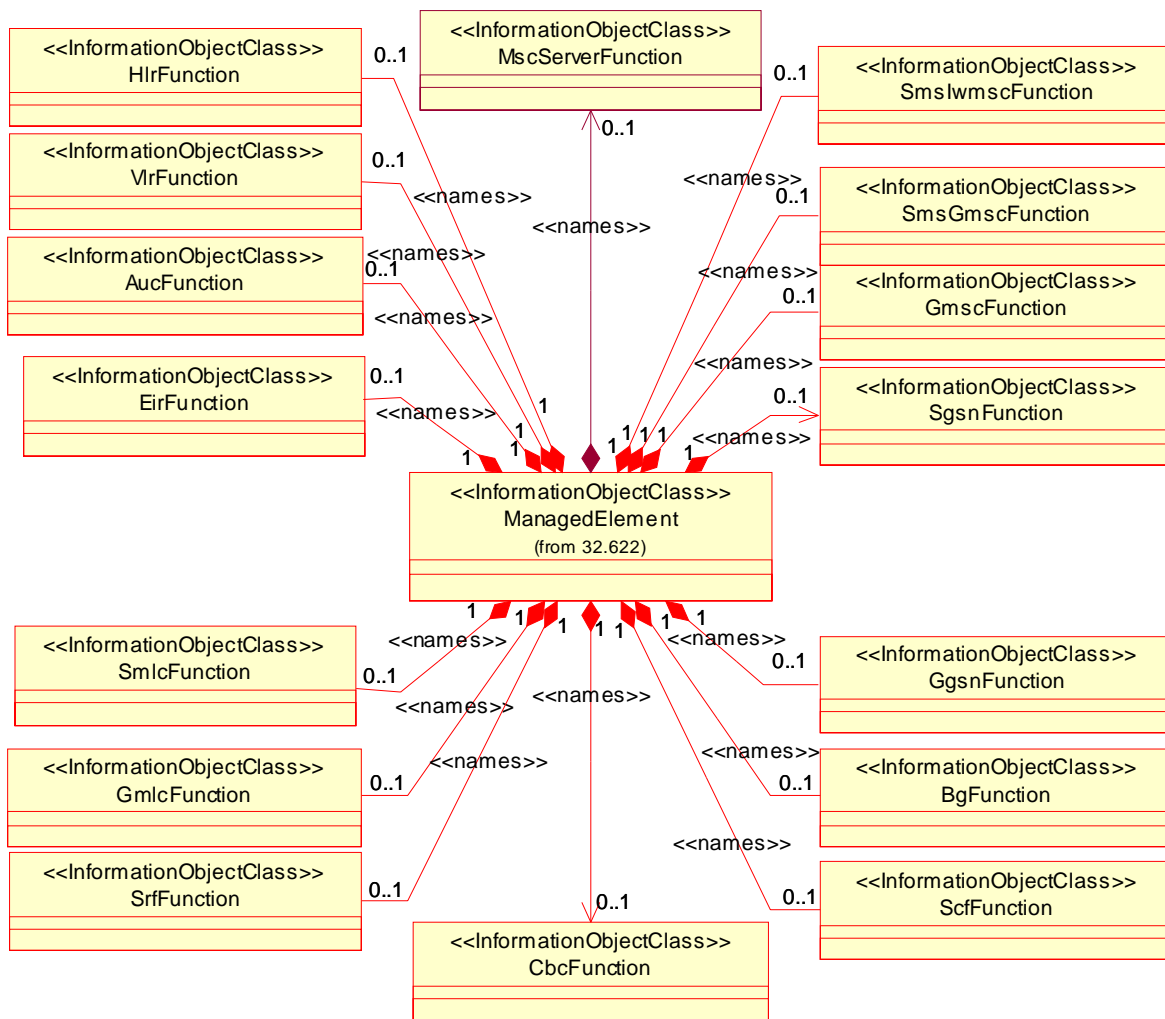
This clause depicts the set of IOCs that encapsulate information relevant for this service. This clause provides the overview of all information object classes in UML. Subsequent clauses provide more detailed specification of various aspects of these information object classes.

Figures 6.2.1.1 to 6.2.1.4 shows the ~~name~~ [containment/naming hierarchy and the associations of the information object classes defined in the present document](#) ~~relation and other types of relations of the CN-NRM.~~

~~NOTE 1: The name containment relations between IOCs are indicated by UML "unidirectional aggregation by reference" ("hollow diamonds").~~

NOTE ~~2~~1: The listed cardinality numbers represent transient as well as steady-state numbers, and reflect all managed object creation and deletion scenarios.





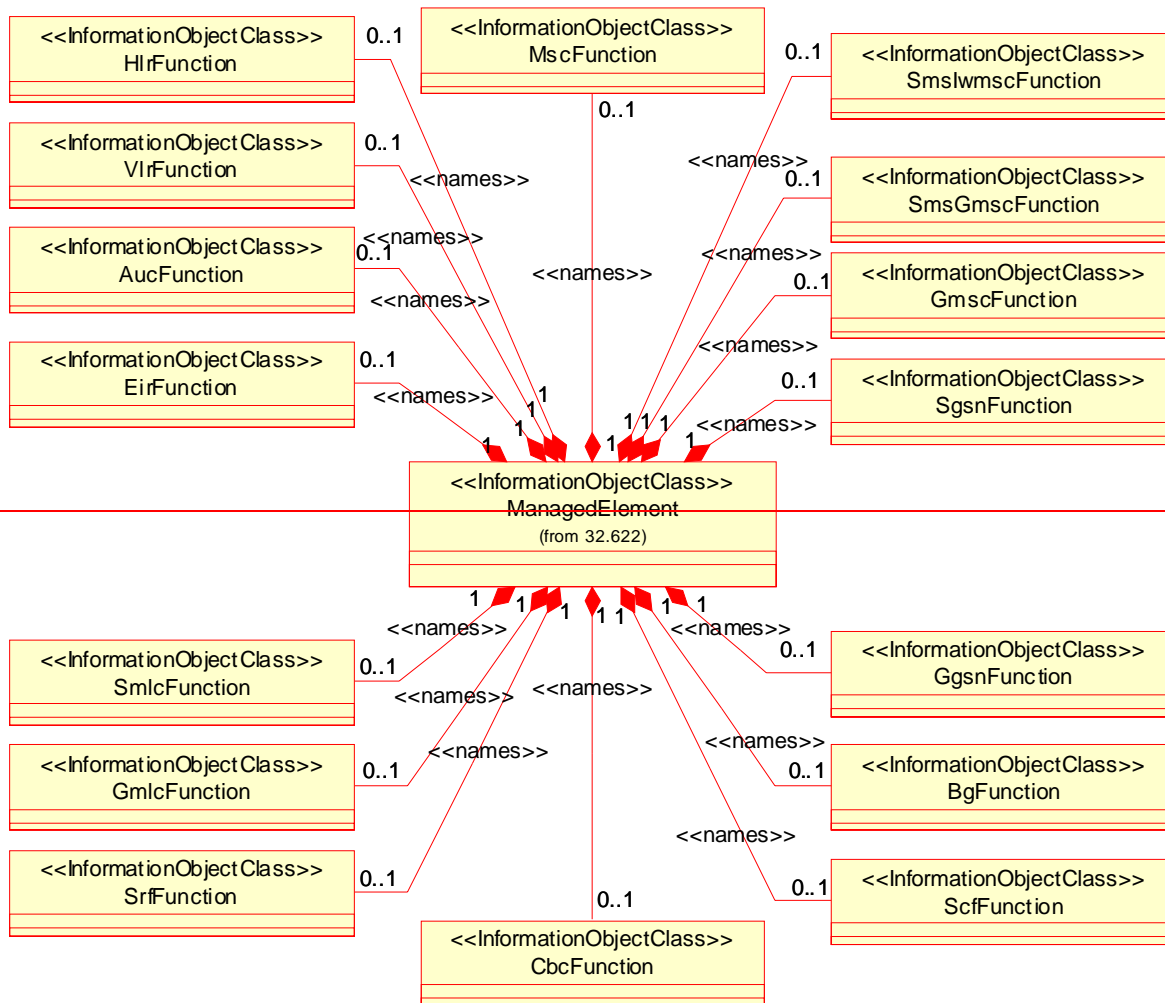
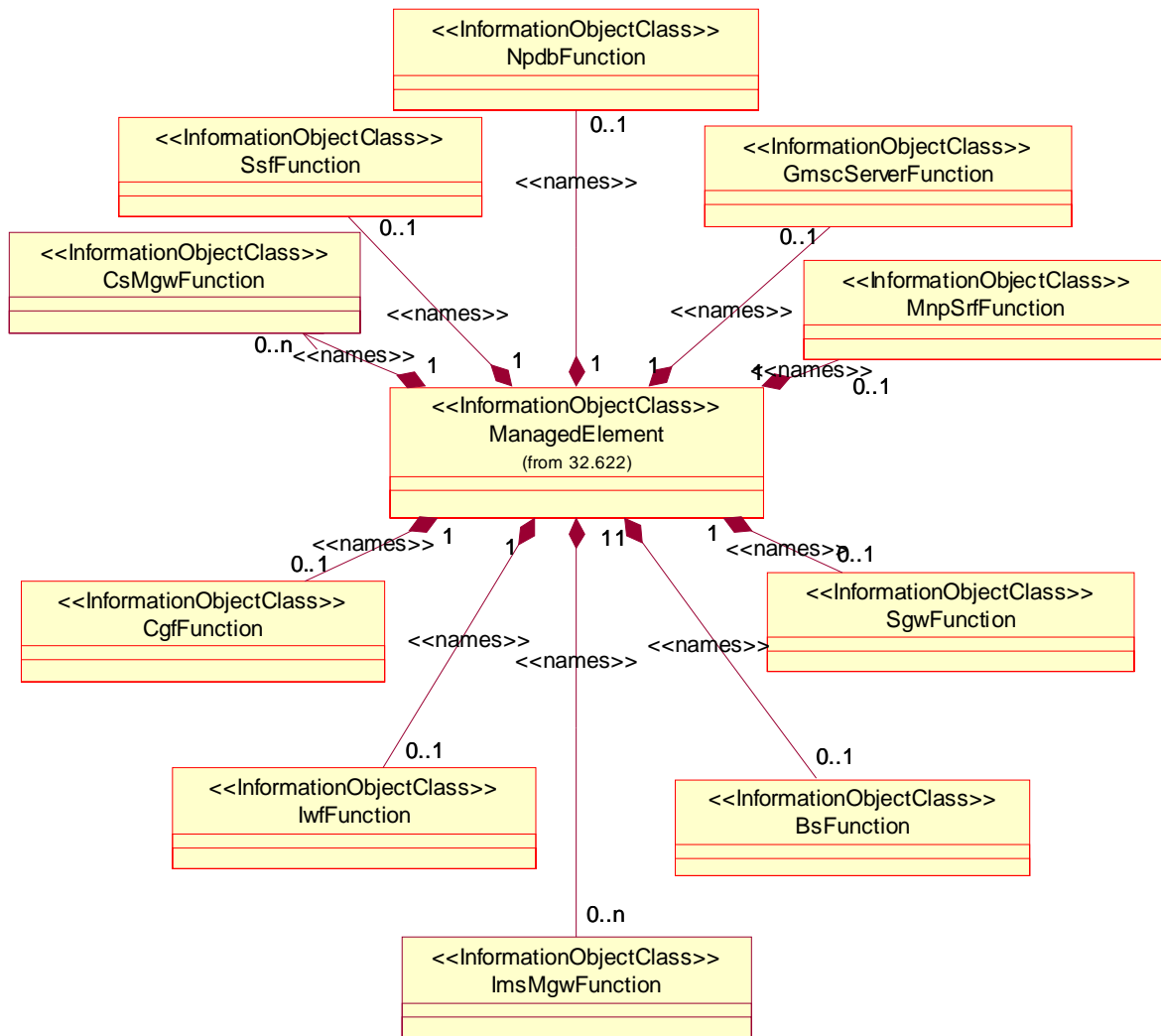


Figure 6.2.1.1: CN NRM Containment/Naming and Association (diagram 1)



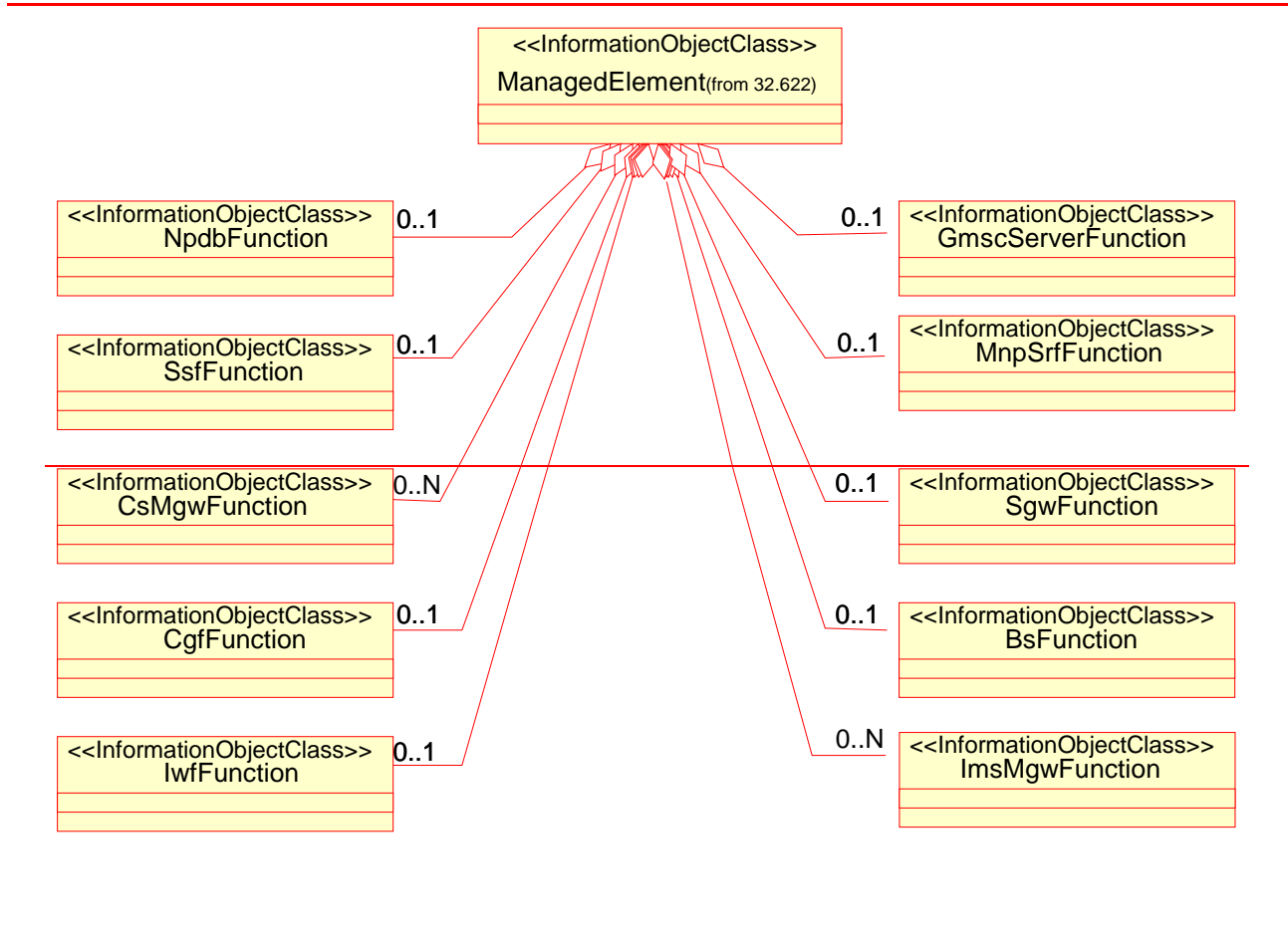
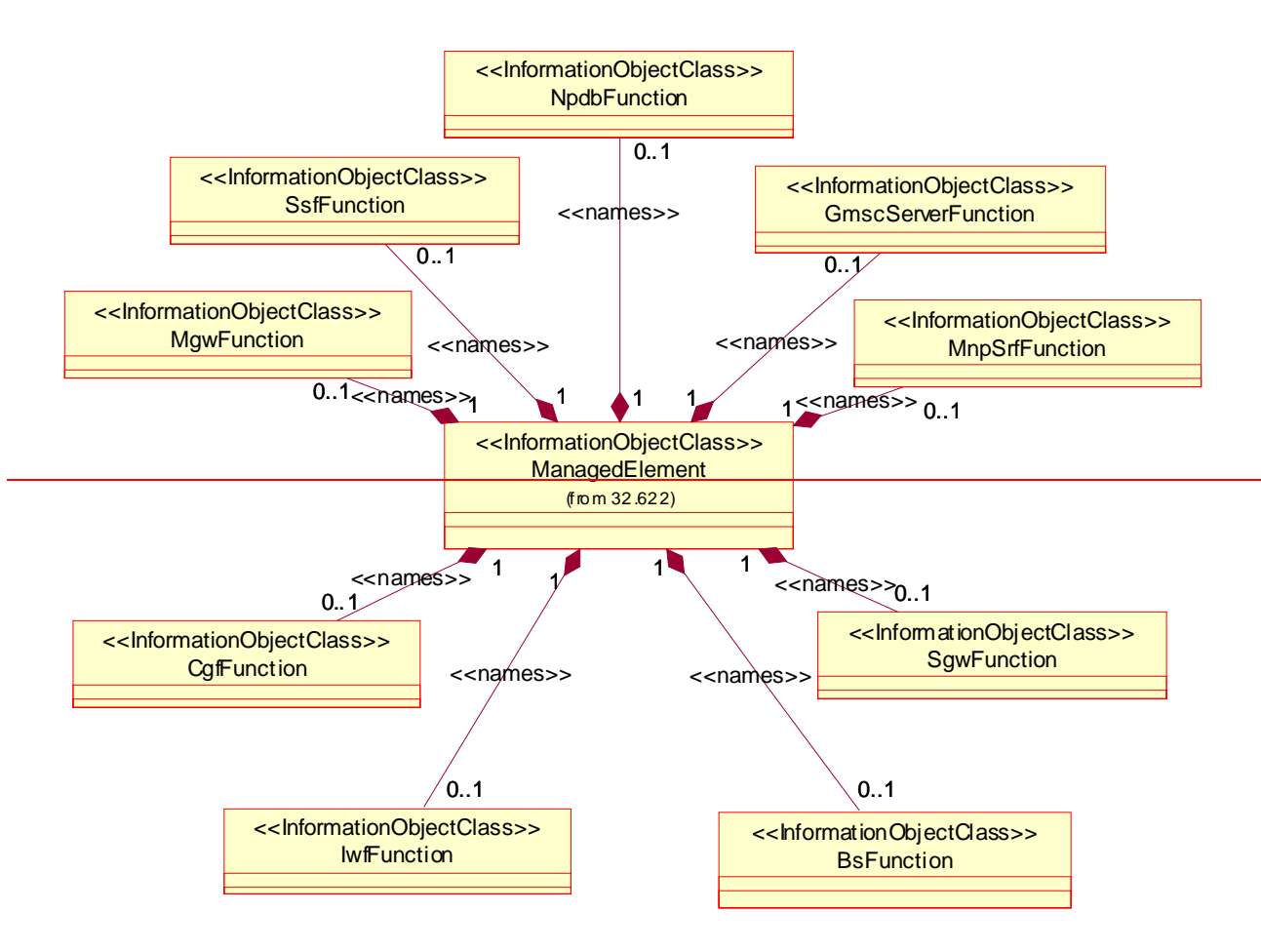
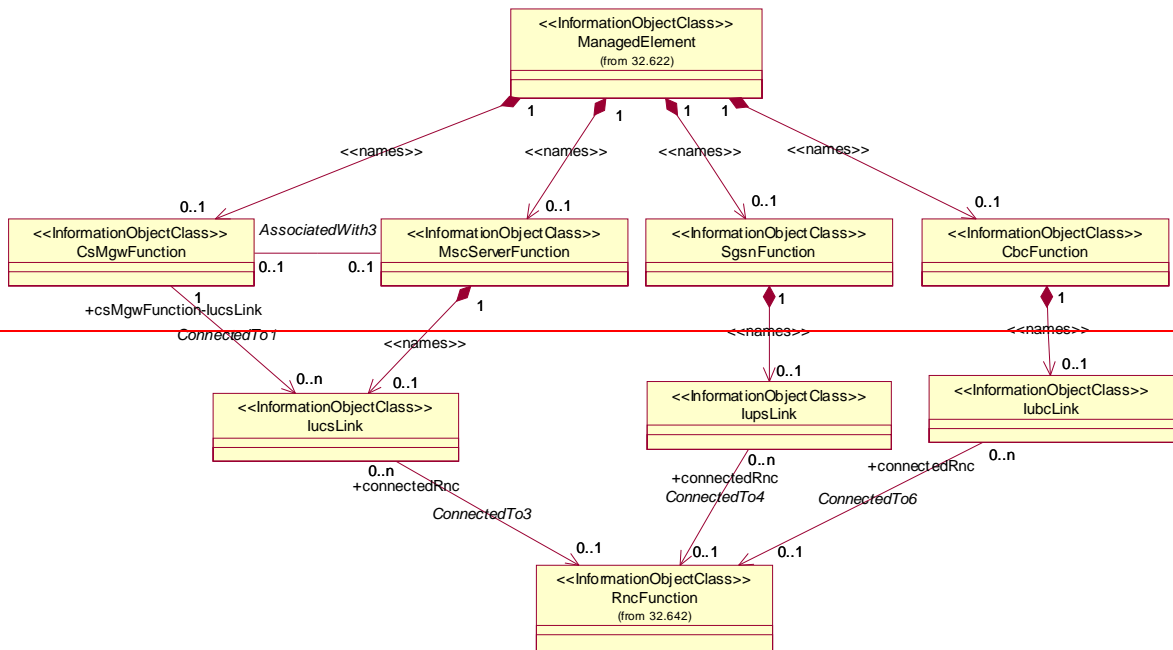
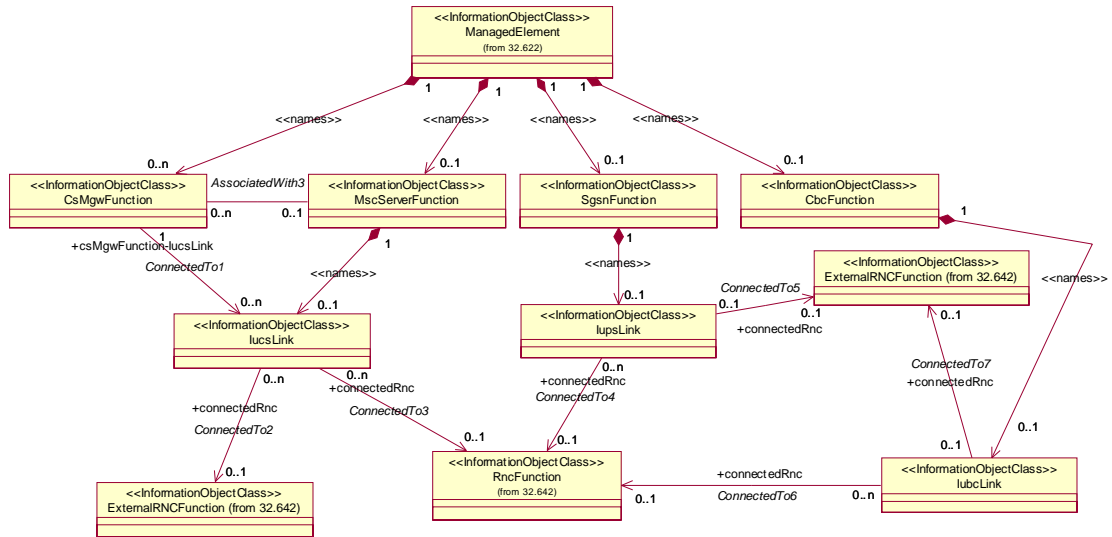


Figure 6.2.1.2: CN NRM Containment/Naming and Association (diagram 2)



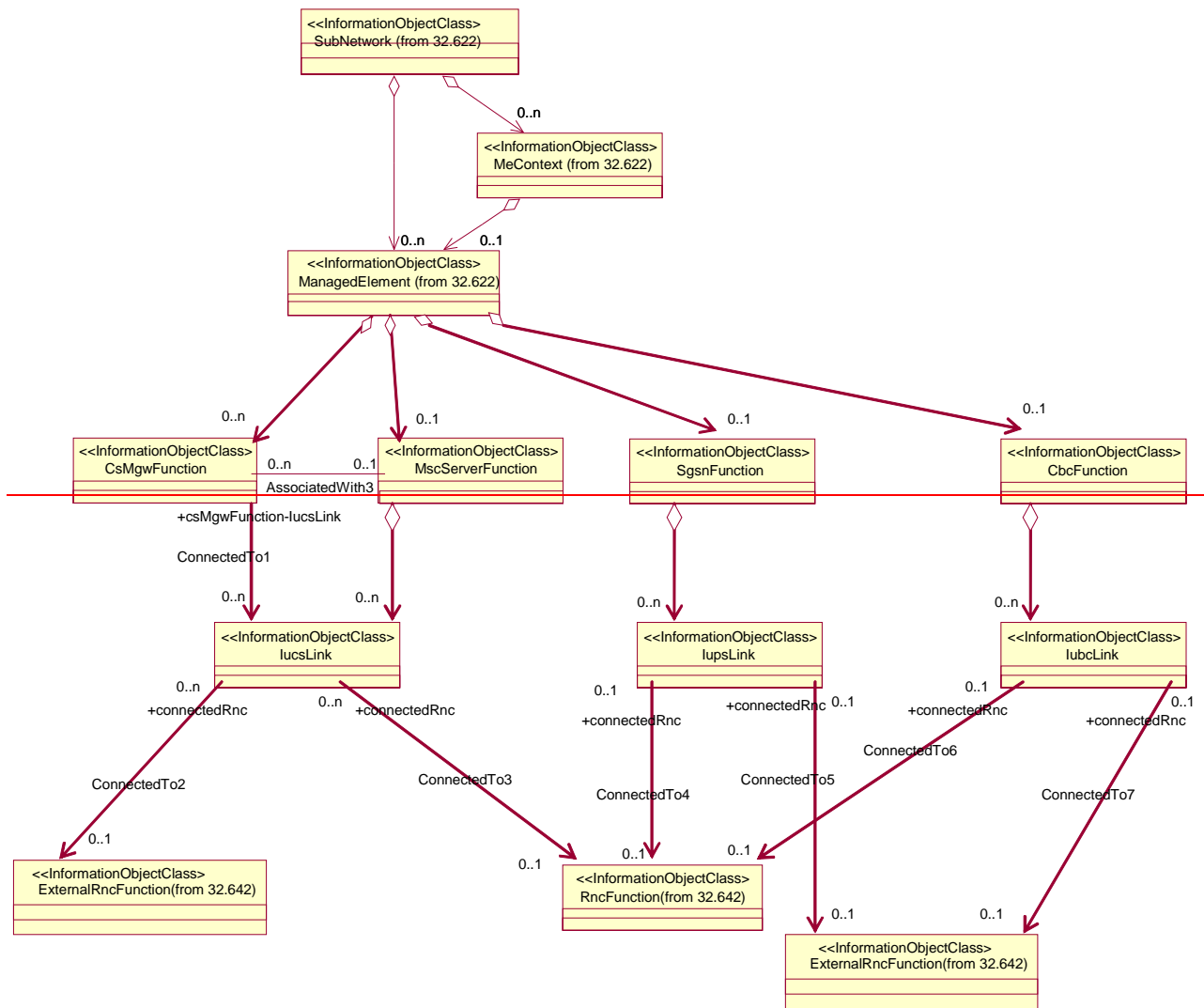
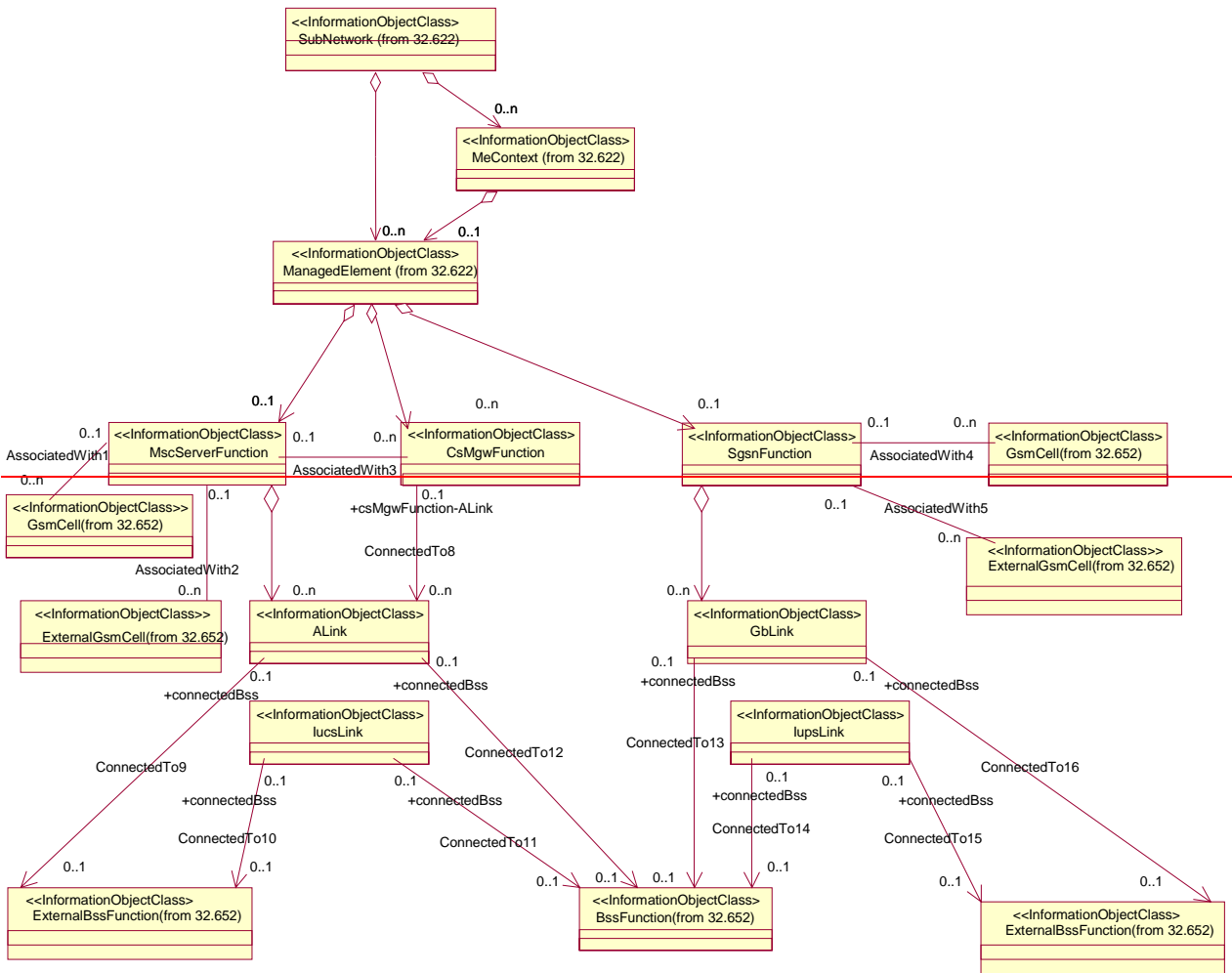


Figure 6.2.1.3: CN UTRAN NRM Containment/Naming and Association (diagram 3)



- NOTE 1: The association between MscServerFunction and GsmCell, and SgsnFunction and GsmCell is optional. It may be valid if both the MscServerFunction and GsmCell, or SgsnFunction and GsmCell are managed by the same management node.
- NOTE 2: The association between MscServerFunction 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 IOC** 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 IOC** representing a cell could have a format like:

SubNetwork=Sweden,MeContext=MEC-Gbg-1,ManagedElement=MSC-Gbg-1,MscServerFunction=MSC-1.

End of Change in Clause 6.2.1

Change in Clause 6.3.9.2

6.3.9.2 Attributes

Table 6.3.9.1: Attributes of SgsnFunction

Attribute name	Visibility	Support Qualifier	Read Qualifier	Write Qualifier
sgsnFunctionId	+	M	M	-
userLabel	+	M	M	M
mccList	+	M	M	M
mncList	+	M	M	M
lacList	+	M	M	M
racList	+	M	M	M
sacList	+	M	M	M
sgsnId	+	M	M	M
sgsnFunction- GSMCell GsmCell	+	M	M	-
sgsnFunction- ExternalGSMCell ExternalGsmCell	+	M	M	-

Table 6.3.9.2: Notifications of SgsnFunction

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

End of Change in Clause 6.3.9.2

Change in Clause 6.3.31.2

6.3.31.2 Attributes

Table 6.3.31.1: Attributes of CsMgwFunction

Attribute name	Visibility	Support Qualifier	Read Qualifier	Write Qualifier
csMgwFunctionId	+	M	M	-
userLabel	+	M	M	M
csMgwFunction- MscServerFunction	+	M	M	-
csMgwFunction- IucsLink	+	M	M	-
csMgwFunction- ALink	+	M	M	-

Table 6.3.31.2: Notifications of CsMgwFunction

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

End of Change in Clause 6.3.31.2

Change in Clause 6.4

6.4 Information relationships definition

6.4.1 AssociatedWith1 (M)

6.4.1.1 Definition

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

6.4.1.2 Roles

Table 6.4.1: Roles of the relation AssociatedWith1

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

6.4.1.3 Constraints

None.

6.4.2 AssociatedWith2 (M)

6.4.2.1 Definition

This represents a bi-directional relation between the MscServerFunction and ~~ExternalGSMCell~~ExternalGsmCell.

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.

6.4.2.2 Roles

Table 6.4.2: Roles of the relation AssociatedWith2

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

6.4.2.3 Constraints

None.

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 6.4.3: Roles of the relation AssociatedWith3

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

6.4.3.3 Constraints

None.

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 6.4.4: Roles of the relation AssociatedWith4

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

6.4.4.3 Constraints

None.

6.4.5 AssociatedWith5 (M)

6.4.5.1 Definition

This represents a bi-directional relation between the SgsnFunction and ExternalGsmCell.

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.

6.4.5.2 Roles

Table 6.4.5: Roles of the relation AssociatedWith5

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

6.4.5.3 Constraints

None.

6.4.6 ConnectedTo1 (M)

6.4.6.1 Definition

This represents a uni-directional relation between the CsMgwFunction and IucsLink.

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

6.4.6.2 Roles

Table 6.4.6: Roles of the relation ConnectedTo1

Name	Definition
csMgwFunction-lucsLink	This role (when present) represents CsMgwFunction 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

None.

6.4.7 ConnectedTo2 (M)

6.4.7.1 Definition

This represents a uni-directional relation between the lucsLink and ExternalRncFunction.

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

6.4.7.2 Roles

Table 6.4.7: Roles of the relation ConnectedTo2

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

6.4.7.3 Constraints

None.

6.4.8 ConnectedTo3 (M)

6.4.8.1 Definition

This represents a uni-directional relation between the lucsLink and RncFunction.

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

6.4.8.2 Roles

Table 6.4.8: Roles of the relation ConnectedTo3

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

6.4.8.3 Constraints

None.

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 6.4.9: Roles of the relation ConnectedTo4

Name	Definition
connectedRnc	This role (when present) represents IOC IupsLink capability to identify one connected RncFunction. When present, it shall contain one RNC RncFunction DN.

6.4.9.3 Constraints

None.

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 6.4.10: Roles of the relation ConnectedTo5

Name	Definition
connectedRnc	This role (when present) represents IOC IupsLink capability to identify one connected ExternalRncFunction. When present, it shall contain one External RNC RncFunction DN.

6.4.10.3 Constraints

None.

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 6.4.11: Roles of the relation ConnectedTo6

Name	Definition
connectedRnc	This role (when present) represents IOC IubcLink capability to identify one connected RncFunction. When present, it shall contain one RNC RncFunction DN.

6.4.11.3 Constraints

None.

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 6.4.12: Roles of the relation ConnectedTo7

Name	Definition
connectedRnc	This role (when present) represents IOC IubcLink capability to identify one connected ExternalRncFunction . When present, it shall contain one ExternalRncFunction DN.

6.4.12.3 Constraints

None.

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 6.4.13: Roles of the relation ConnectedTo8

Name	Definition
csMgwFunction-ALink	This role (when present) represents CsMgwFunction esMgwFunction capability to identify the set of connected ALinks. When the role is present, the csMgwFunction-ALink shall carry the set of ALink's DN(s).

6.4.13.3 Constraints

None.

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 6.4.14: Roles of the relation ConnectedTo9

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

6.4.14.3 Constraints

None.

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

Table 6.4.15: Roles of the relation ConnectedTo10

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

6.4.15.3 Constraints

None.

6.4.16 ConnectedTo11 (M)

6.4.16.1 Definition

This represents a uni-directional relation between the [IucsLink](#) ~~Iucslink~~ and BssFunction.

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

6.4.16.2 Roles

Table 6.4.16: Roles of the relation ConnectedTo11

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

6.4.16.3 Constraints

None.

6.4.17 ConnectedTo12 (M)

6.4.17.1 Definition

This represents a uni-directional relation between the [ALink](#) ~~Alink~~ and BssFunction.

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

6.4.17.2 Roles

Table 6.4.17: Roles of the relation ConnectedTo12

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

6.4.17.3 Constraints

None.

6.4.18 ConnectedTo13 (M)

6.4.18.1 Definition

This represents a uni-directional relation between the [GbLink](#) ~~Gblink~~ and BssFunction.

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

6.4.18.2 Roles

Table 6.4.18: Roles of the relation ConnectedTo13

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

6.4.18.3 Constraints

None.

6.4.19 ConnectedTo14 (M)

6.4.19.1 Definition

This represents a uni-directional relation between the [IupsLink](#) ~~Iupslink~~ and BssFunction.

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

6.4.19.2 Roles

Table 6.4.19: Roles of the relation ConnectedTo14

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

6.4.19.3 Constraints

None.

6.4.20 ConnectedTo15 (M)

6.4.20.1 Definition

This represents a uni-directional relation between the [lupsLink](#) ~~lupslink~~ and ExternalBssFunction.

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

6.4.20.2 Roles

Table 6.4.20: Roles of the relation ConnectedTo15

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

6.4.20.3 Constraints

None.

6.4.21 ConnectedTo16 (M)

6.4.21.1 Definition

This represents a uni-directional relation between the [GbLink](#) ~~Gblink~~ and ExternalBssFunction.

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

6.4.21.2 Roles

Table 6.4.21: Roles of the relation ConnectedTo16

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

6.4.21.3 Constraints

None.

End of Change in Clause 6.4

Change in Clause 6.5.1

6.5.1 Definition and legal values

Table 6.5.1 defines the attributes that are present in several information object classes of the present document.

Table 6.5.1: Attributes

Attribute Name	Definition	Legal Values
lacList	List of Location Area Codes covered by MSC (Ref. 3GPP TS 23.003 [19]).	
sacList	List of Service Area Codes covered by MSC (Ref. 3GPP TS 23.003 [19]).	
gcaList	List of Group Call Area (Ref. 3GPP TS 23.003 [19]).	
mscId	Unique MSC ID (Ref. 3GPP TS 23.002 [15]).	
mccList	List of Mobile Country Codes, MCC (part of the PLMN Id, Ref. 3GPP TS 23.003 [19]).	
mncList	List of Mobile Network Codes, MNC (part of the PLMN Id, Ref. 3GPP TS 23.003 [19]).	
mscServerFunctionId	An attribute whose 'name+value' can be used as an RDN when naming an instance of the IOCobject 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 IOCobject 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 IOCobject 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 IOCobject 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 IOCobject class . This RDN uniquely identifies the object instance within the scope of its containing (parent) object instance.	
smsIwmscFunctionId	An attribute whose 'name+value' can be used as an RDN when naming an instance of the IOCobject class . This RDN 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 IOCobject 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 RDN when naming an instance of the IOCobject 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 IOCobject 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 [15]).	
ggsnFunctionId	An attribute whose 'name+value' can be used as an RDN when naming an instance of the IOCobject 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 RDN when naming an instance of the IOCobject class . This RDN uniquely identifies the object instance within the scope of its containing (parent) object instance.	
smlcFunctionId	An attribute whose 'name+value' can be used as an RDN when naming an instance of the IOCobject class . This RDN uniquely identifies the object instance within the scope of its containing (parent) object instance.	
gmlcFunctionId	An attribute whose 'name+value' can be used as an RDN when naming an instance of the IOCobject 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 IOCobject class . This RDN uniquely identifies the object instance within the scope of its containing (parent) object instance.	
srfFunctionId	An attribute whose 'name+value' can be used as an RDN when naming an instance of the IOCobject class . This RDN uniquely identifies the object instance within the scope of its containing (parent) object instance.	
cbcFunctionId	An attribute whose 'name+value' can be used as an RDN when naming an instance of the IOCobject class . This RDN uniquely identifies the object instance within the scope of its containing (parent) object instance.	
cgfFunctionId	An attribute whose 'name+value' can be used as an RDN when naming an instance of the IOCobject class . This RDN uniquely identifies the object instance within the scope of its containing (parent) object instance.	
imsMgwFunctionId	An attribute whose 'name+value' can be used as an RDN when naming an instance of the IOCobject 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 naming an instance of the IOCobject class . This RDN uniquely identifies the object instance within the scope of its containing (parent) object instance.	
mnpSrfFunctionId	An attribute whose 'name+value' can be used as an RDN when naming an instance of the IOCobject 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 IOCobject 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 IOCobject class . This RDN uniquely identifies the object instance within the scope of its containing (parent) object instance.	
ssfFunctionId	An attribute whose 'name+value' can be used as an RDN when naming an instance of the IOCobject 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 IOCobject class . This RDN uniquely identifies the object instance within the scope of its containing (parent) object instance.	
iucsLinkId iucslinkId	An attribute whose 'name+value' can be used as an RDN when naming an instance of the IOCobject class . This RDN uniquely identifies the object instance within the scope of its containing (parent) object instance.	
iupsLinkId iupslinkId	An attribute whose 'name+value' can be used as an RDN when naming an instance of the IOCobject class . This RDN uniquely identifies the object instance within the scope of its containing (parent) object instance.	
iubcLinkId iubclinkId	An attribute whose 'name+value' can be used as an RDN when naming an instance of the IOCobject 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 IOCobject 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 IOCobject 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 IOCobject 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.	
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.	
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.	
userLabel	A user-friendly (and user assigned) name of the associated IOCobject . Inherited from ManagedFunction.	

End of Change in Clause 6.5.1
End of Document

Annex A (informative): Change history

Change history							
Date	TSG #	TSG Doc.	CR	Rev	Subject/Comment	Old	New
Jun 2001	S_12	SP-010283	--	--	Approved at TSG SA #12 and placed under Change Control	2.0.0	4.0.0
Dec 2001	S_14	SP-010649	001	--	Removal of MOC FnrFunction from the diagrams	4.0.0	4.1.0
Jun 2002	S_16	SP-020302	002	--	Align with Rel-4 Network Architecture (23.002) by changing Roaming Signalling Gateway (R-SGW) to Signalling Gateway (SGW)	4.1.0	4.2.0
Sep 2002	S_17	SP-020489	003	--	Upgrade to Rel-5 the Network Resource Model for Core Network Management (add Managed Object Classes (MOCs)) [NOTE: Align with Rel-5 Network Architecture]	4.2.0	5.0.0
Dec 2002	S_18	SP-020747	004	--	Removal of faulty attribute uraList	5.0.0	5.1.0
Mar 2003	S_19	SP-030142	006	--	CN Network Resource Model changed to the New Methodology - alignment with 32.102 (Telecommunication management; Architecture)	5.1.0	5.2.0
Jun 2003	S_20	SP-030281	007	--	CN Network Resource Model changed to the New Methodology - alignment with 32.102	5.2.0	5.3.0
Sep 2003	S_21	SP-030419	009	--	Correction of Information Object Classes (IOCs) Notifications - Alignment with 32.102	5.3.0	5.4.0
Dec 2003	S_22	SP-030643	010	--	Remove redundant VsDataContainer Containment UML - Now Covered by 32.622	5.4.0	5.5.0
Sep 2004	S_25	SP-040582	011	--	Correction of modelling of Media GateWay (MGW) and of Class diagrams with respect to MSC and MGW functions	5.5.0	5.6.0

CHANGE REQUEST

⌘ **32.633 CR 009** ⌘ rev **-** ⌘ Current version: **5.2.0** ⌘

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

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

Title:	⌘ Align with 32.632, regarding the IS template and UML repertoire		
Source:	⌘ SA5 (robert.petersen@ericsson.com)		
Work item code:	⌘ OAM-NIM	Date:	⌘ 28/01/2005
Category:	⌘ F	Release:	⌘ Rel-5
	Use <u>one</u> of the following categories: F (correction) A (corresponds to a correction in an earlier release) B (addition of feature), C (functional modification of feature) D (editorial modification) Detailed explanations of the above categories can be found in 3GPP TR 21.900 .		Use <u>one</u> of the following releases: 2 (GSM Phase 2) R96 (Release 1996) R97 (Release 1997) R98 (Release 1998) R99 (Release 1999) Rel-4 (Release 4) Rel-5 (Release 5) Rel-6 (Release 6)

Reason for change:	⌘ The specification would not be aligned with the latest version of IS.		
Summary of change:	⌘ The link to the IS is changed. The abbreviation IOC is added. IOC is replacing MOC for objects in the IS. Faulty IOC attribute names are corrected. GenericNRIRPSsystem::AttributeTypes::MOReference is changed to GenericNetworkResourcesIRPSsystem::AttributeTypes::MOReference or GenericNetworkResourcesIRPSsystem::AttributeTypes::MOReferenceSet		
Consequences if not approved:	⌘ The specification would refer to an old version of the IS. There would be a risk for interoperability problems as each designer will have to guess what data type should be used for relation attributes.		

Clauses affected:	⌘ 1, 3.2, 5.2 and Annex A.										
Other specs affected:	<table border="1" style="display: inline-table; border-collapse: collapse;"> <tr> <td style="padding: 2px;">Y</td> <td style="padding: 2px;">N</td> </tr> <tr> <td style="padding: 2px;"><input type="checkbox"/></td> <td style="padding: 2px;"><input checked="" type="checkbox"/></td> </tr> <tr> <td style="padding: 2px;"><input type="checkbox"/></td> <td style="padding: 2px;"><input checked="" type="checkbox"/></td> </tr> <tr> <td style="padding: 2px;"><input type="checkbox"/></td> <td style="padding: 2px;"><input checked="" type="checkbox"/></td> </tr> </table>	Y	N	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Other core specifications Test specifications O&M Specifications	⌘
Y	N										
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Other comments:	⌘										

Change in Clause 1

1 Scope

The purpose of this *Core Network Resources IRP: CORBA Solution Set* is to define the mapping of the IRP information model (see TS 32.632 [3]) to the protocol specific details necessary for implementation of this IRP in a CORBA/IDL environment.

This Solution Set specification is related to 3GPP TS 32.632 V5.47.X.

End of Change in Clause 1

Change in Clause 3.2

3.2 Abbreviations

For the purposes of the present document, the following abbreviations apply:

CORBA	Common Object Request Broker Architecture
DN	Distinguished Name
IS	Information Service
IDL	Interface Definition Language (OMG)
IOC	Information Object Class
IRP	Integration Reference Point
MGW	Media GateWay
MO	Managed Object
MOC	Managed Object Class
NRM	Network Resource Model
OMG	Object Management Group
SS	Solution Set

End of Change in Clause 3.2

Change in Clause 5.2

5.2 ~~Core Network NRM Managed~~ Information Object Class (MOGIOC) mapping

5.2.1 ~~MOG-IOC~~ MscServerFunction

Table 1: Mapping from NRM ~~IOC MOC~~ MscServerFunction attributes to SS equivalent MOC MscServerFunction attributes

NRM Attributes of IOC MOC MscFunction in TS 32.632 [3]	SS Attributes	SS Type	Qualifier
mscServerFunctionId	mscServerFunctionId	string	Read-Only, M
userLabel	userLabel	string	Read- Write, M
mccList	mccList	long	Read-Write, M
mncList	mncList	long	Read-Write, M
lacList	lacList	long	Read-Write, M
sacList	sacList	long	Read-Write, M
gcaList	gcaList	long	Read-Write, M
mscId	mscId	long	Read-Write, M
Associated With/ mscServerFunction-GsmCell GsmCell mscServerFunction-GSMcell	mscServerFunction-GsmCell mscServerFunction-GSMcell	GenericNetworkResources/ RPSystem::AttributeTypes:: MOReferenceSet GenericNR/ RPSystem::AttributeTypes:: MOReference	Read-Only,- M
Associated With/ mscServerFunction-ExternalGsmCell ExternalGSMcell mscServerFunction-ExternalGSMcell	mscServerFunction-ExternalGsmCell mscServerFunction-ExternalGSMcell	GenericNetworkResources/ RPSystem::AttributeTypes:: MOReferenceSet GenericNR/ RPSystem::AttributeTypes:: MOReference	Read-Only,- M
Associated With/ mscServerFunction-CsMgwFunction	mscServerFunction-CsMgwFunction	GenericNetworkResources/ RPSystem::AttributeTypes:: MOReferenceSet GenericNR/ RPSystem::AttributeTypes:: MOReferenceSet	Read-Only,- M

5.2.2 ~~IOC MOC~~ HlrFunction

Table 2: Mapping from NRM ~~IOC MOC~~ HlrFunction attributes to SS equivalent MOC HlrFunction attributes

NRM Attributes of IOC MOC HlrFunction in TS 32.632 [3]	SS Attributes	SS Type	Qualifier
hlrFunctionId	hlrFunctionId	string	Read-Only, M
userLabel	userLabel	string	Read- Write, M

5.2.3 ~~IOC MOC~~ VlrFunction

Table 3: Mapping from NRM ~~IOC MOC~~ VlrFunction attributes to SS equivalent MOC VlrFunction attributes

NRM Attributes of IOC MOC VlrFunction in TS 32.632 [3]	SS Attributes	SS Type	Qualifier
vlrFunctionId	vlrFunctionId	string	Read-Only, M
userLabel	userLabel	string	Read- Write, M

5.2.4 IOC ~~MOC~~ AucFunction

Table 4: Mapping from NRM IOC ~~MOC~~ AucFunction attributes to SS equivalent MOC AucFunction attributes

NRM Attributes of <u>IOC</u> MOC AucFunction in TS 32.632 [3]	SS Attributes	SS Type	Qualifier
aucFunctionId	aucFunctionId	string	Read-Only, M
userLabel	userLabel	string	Read- Write, M

5.2.5 IOC ~~MOC~~ EirFunction

Table 5: Mapping from NRM IOC ~~MOC~~ EirFunction attributes to SS equivalent MOC EirFunction attributes

NRM Attributes of <u>IOC</u> MOC EirFunction in TS 32.632 [3]	SS Attributes	SS Type	Qualifier
eirFunctionId <u>EirFunctionId</u>	eirFunctionId	string	Read-Only, M
userLabel <u>UserLabel</u>	userLabel	string	Read- Write, M

5.2.6 IOC ~~MOC~~ SmslwmscFunction

Table 6: Mapping from NRM IOC ~~MOC~~ SmslwmscFunction attributes to SS equivalent MOC SmslwmscFunction attributes

NRM Attributes of <u>IOC</u> MOC SmslwmscFunction in TS 32.632 [3]	SS Attributes	SS Type	Qualifier
smslwmscFunctionId	smslwmscFunctionId	string	Read-Only, M
userLabel	userLabel	string	Read- Write, M

5.2.7 IOC ~~MOC~~ SmsGmscFunction

Table 7: Mapping from NRM IOC ~~MOC~~ SmsGmscFunction attributes to SS equivalent MOC SmsGmscFunction attributes

NRM Attributes of <u>IOC</u> MOC SmsGmscFunction in TS 32.632 [3]	SS Attributes	SS Type	Qualifier
smsGmscFunctionId <u>SmsGmscFunctionId</u>	smsGmscFunctionId	string	Read-Only, M
userLabel <u>UserLabel</u>	userLabel	string	Read- Write, M

5.2.8 IOC ~~MOC~~ SgsnFunction

Table 8: Mapping from NRM IOC ~~MOC~~ SgsnFunction attributes to SS equivalent MOC SgsnFunction attributes

NRM-Attributes of <u>IOC</u> MOC SgsnFunction in TS 32.632 [3]	SS Attributes	SS Type	Qualifier
<u>sgsnFunctionId</u> SgsnFunctionId	sgsnFunctionId	string	Read-Only, M
<u>userLabel</u> UserLabel	userLabel	string	Read-Write, M
mcclList	mcclList	long	Read-Write, M
mnclList	mnclList	long	Read-Write, M
lacList	lacList	long	Read-Write, M
racList	racList	long	Read-Write, M
sacList	sacList	long	Read-Write, M
sgsnId	sgsnId	long	Read-Write, M
Associated With/ <u>sgsnFunction-GsmCell</u> sgsnFunction-GSMCell	<u>sgsnFunction-GsmCell</u> sgsnFunction-GSMCell	<u>GenericNetworkResources</u> <u>IRPSystem::AttributeTypes</u> <u>::MOReferenceSet</u> <u>Generic</u> <u>NRIRPSystem::AttributeTy</u> <u>pes::MOReference</u>	Read-Only, M
Associated With/ <u>sgsnFunction-ExternalGsmCell</u> sgsnFunction-ExternalGSMCell	<u>sgsnFunction-ExternalGsmCell</u> sgsnFunction-ExternalGSMCell	<u>GenericNetworkResources</u> <u>IRPSystem::AttributeTypes</u> <u>::MOReferenceSet</u> <u>Generic</u> <u>NRIRPSystem::AttributeTy</u> <u>pes::MOReference</u>	Read-Only, M

5.2.9 IOC ~~MOC~~ GgsnFunction

Table 9: Mapping from NRM IOC ~~MOC~~ GgsnFunction attributes to SS equivalent MOC GgsnFunction attributes

NRM-Attributes of <u>IOC</u> MOC GgsnFunction in TS 32.632 [3]	SS Attributes	SS Type	Qualifier
<u>ggsnFunctionId</u> GgsnFunctionId	ggsnFunctionId	string	Read-Only, M
<u>userLabel</u> UserLabel	userLabel	string	Read- Write, M

5.2.10 IOC ~~MOC~~ BgFunction

Table 10: Mapping from NRM IOC ~~MOC~~ BgFunction attributes to SS equivalent MOC BgFunction attributes

NRM-Attributes of <u>IOC</u> MOC BgFunction in TS 32.632 [3]	SS Attributes	SS Type	Qualifier
<u>bgFunctionId</u> BgFunctionId	bgFunctionId	string	Read-Only, M
<u>userLabel</u> UserLabel	userLabel	string	Read- Write, M

5.2.11 IOC ~~MOC~~ GmscFunction

Table 11: Mapping from NRM IOC ~~MOC~~ GmscFunction attributes to SS equivalent MOC GmscFunction attributes

NRM-Attributes of <u>IOC</u> MOC GmscFunction in TS 32.632 [3]	SS Attributes	SS Type	Qualifier
<u>gmscFunctionId</u> GmscFunctionId	gmscFunctionId	string	Read-Only, M
<u>userLabel</u> UserLabel	userLabel	string	Read- Write, M

5.2.12 IOC ~~MOC~~ SmlcFunction

Table 12: Mapping from NRM IOC ~~MOC~~ SmlcFunction attributes to SS equivalent MOC SmlcFunction attributes

NRM-Attributes of <u>IOC</u> MOC SmlcFunction in TS 32.632 [3]	SS Attributes	SS Type	Qualifier
<u>smlcFunctionId</u> SmlcFunctionId	smlcFunctionId	string	Read-Only, M
<u>userLabel</u> UserLabel	userLabel	string	Read- Write, M

5.2.13 IOC ~~MOC~~ GmlcFunction

Table 13: Mapping from NRM IOC ~~MOC~~ GmlcFunction attributes to SS equivalent MOC GmlcFunction attributes

NRM-Attributes of <u>IOC</u> MOC GmlcFunction in TS 32.632 [3]	SS Attributes	SS Type	Qualifier
<u>gmlcFunctionId</u> GmlcFunctionId	gmlcFunctionId	string	Read-Only, M
<u>userLabel</u> UserLabel	userLabel	string	Read- Write, M

5.2.14 IOC ~~MOC~~ ScfFunction

Table 14: Mapping from NRM IOC ~~MOC~~ ScfFunction attributes to SS equivalent MOC ScfFunction attributes

NRM-Attributes of <u>IOC</u> MOC ScfFunction in TS 32.632 [3]	SS Attributes	SS Type	Qualifier
<u>scfFunctionId</u> ScfFunctionId	scfFunctionId	string	Read-Only, M
<u>userLabel</u> UserLabel	userLabel	string	Read- Write, M

5.2.15 IOC ~~MOC~~ SrfFunction

Table 15: Mapping from NRM IOC ~~MOC~~ SrfFunction attributes to SS equivalent MOC SrfFunction attributes

NRM-Attributes of <u>IOC</u> MOC SrfFunction in TS 32.632 [3]	SS Attributes	SS Type	Qualifier
<u>srfFunctionId</u> SrfFunctionId	srfFunctionId	string	Read-Only, M
<u>userLabel</u> UserLabel	userLabel	string	Read- Write, M

5.2.16 IOC ~~MOC~~ CbcFunction

Table 16: Mapping from NRM IOC ~~MOC~~ CbcFunction attributes to SS equivalent MOC CbcFunction attributes

NRM-Attributes of <u>IOC</u> MOC CbcFunction in TS 32.632 [3]	SS Attributes	SS Type	Qualifier
<u>cbcFunctionId</u> CbcFunctionId	cbcFunctionId	string	Read-Only, M
<u>userLabel</u> UserLabel	userLabel	string	Read- Write, M

5.2.17 IOC ~~MOC~~ CgfFunction

Table 17: Mapping from NRM IOC ~~MOC~~ CgfFunction attributes to SS equivalent MOC CgfFunction attributes

NRM-Attributes of <u>IOC</u> MOC CgfFunction in TS 32.632 [3]	SS Attributes	SS Type	Qualifier
<u>cgfFunctionId</u> CgfFunctionId	cgfFunctionId	string	Read-Only, M
<u>userLabel</u> UserLabel	userLabel	string	Read- Write, M

5.2.18 IOC ~~MOC~~ ImsMgwFunction

Table 18: Mapping from NRM IOC ~~MOC~~ MgwFunction attributes to SS equivalent MOC MgwFunction attributes

NRM-Attributes of <u>IOC</u> MOC MgwFunction in TS 32.632 [3]	SS Attributes	SS Type	Qualifier
imsMgwFunctionId	imsMgwFunctionId	string	Read-Only, M
userLabel	userLabel	string	Read- Write, M

5.2.19 IOC ~~MOC~~ GmscServerFunction

Table 19: Mapping from NRM IOC ~~MOC~~ GmscServerFunction attributes to SS equivalent MOC GmscServerFunction attributes

NRM-Attributes of <u>IOC</u> MOC GmscServerFunction in TS 32.632 [3]	SS Attributes	SS Type	Qualifier
<u>gmscServerFunctionId</u> GmscServerFunctionId	gmscServerFunctionId	string	Read-Only, M
<u>userLabel</u> UserLabel	userLabel	string	Read- Write, M

5.2.20 IOC ~~MOC~~ IwfFunction

Table 20: Mapping from NRM IOC ~~MOC~~ IwfFunction attributes to SS equivalent MOC IwfFunction attributes

NRM-Attributes of <u>IOC</u> MOC IwfFunction in TS 32.632 [3]	SS Attributes	SS Type	Qualifier
<u>iwfFunctionId</u> IwfFunctionId	iwfFunctionId	string	Read-Only, M
<u>userLabel</u> UserLabel	userLabel	string	Read- Write, M

5.2.21 IOC ~~MOC~~ MnpSrfFunction

Table 21: Mapping from NRM IOC ~~MOC~~ MnpSrfFunction attributes to SS equivalent MOC IwfFunction attributes

NRM-Attributes of <u>IOC</u> MOC MnpSrfFunction in TS 32.632 [3]	SS Attributes	SS Type	Qualifier
<u>mnpSrfFunctionId</u> MnpSrfFunctionId	mnpSrfFunctionId	string	Read-Only, M
<u>userLabel</u> UserLabel	userLabel	string	Read- Write, M

5.2.22 IOC ~~MOC~~ NpdbFunction

Table 22: Mapping from NRM IOC ~~MOC~~ NpdbFunction attributes to SS equivalent MOC NpdbFunction attributes

NRM Attributes of <u>IOC</u> MOC NpdbFunction in TS 32.632 [3]	SS Attributes	SS Type	Qualifier
<u>npdbFunctionId</u> NpdbFunctionId	npdbFunctionId	string	Read-Only, M
<u>userLabel</u> UserLabel	userLabel	string	Read- Write, M

5.2.23 IOC ~~MOC~~ SgwFunction

Table 23: Mapping from NRM IOC ~~MOC~~ SgwFunction attributes to SS equivalent MOC SgwFunction attributes

NRM Attributes of <u>IOC</u> MOC SgwFunction in TS 32.632 [3]	SS Attributes	SS Type	Qualifier
<u>sgwFunctionId</u>	sgwFunctionId	string	Read-Only, M
<u>userLabel</u> UserLabel	userLabel	string	Read- Write, M

5.2.24 IOC ~~MOC~~ SsfFunction

Table 24: Mapping from NRM IOC ~~MOC~~ SsfFunction attributes to SS equivalent MOC SsfFunction attributes

NRM Attributes of <u>IOC</u> MOC SsfFunction in TS 32.632 [3]	SS Attributes	SS Type	Qualifier
<u>ssfFunctionId</u> SsfFunctionId	ssfFunctionId	string	Read-Only, M
<u>userLabel</u> UserLabel	userLabel	string	Read- Write, M

5.2.25 IOC ~~MOC~~ BsFunction

Table 25: Mapping from NRM IOC ~~MOC~~ BsFunction attributes to SS equivalent MOC BsFunction attributes

NRM Attributes of <u>IOC</u> MOC BsFunction in TS 32.632 [3]	SS Attributes	SS Type	Qualifier
<u>bsFunctionId</u>	bsFunctionId	string	Read-Only, M
<u>userLabel</u>	userLabel	string	Read- Write, M

5.2.26 ~~IOC MOC~~-IucsLink

Table 26: Mapping from NRM ~~IOC MOC~~-IucsLink attributes to SS equivalent MOC IucsLink attributes

NRM Attributes of IOC MOC -IucsLink in TS 32.632 [3]	SS Attributes	SS Type	Qualifier
iucsLinkId	iucsLinkId	string	Read-Only, M
userLabel	userLabel	string	Read- Write, M
Connected To/connectedRnc	connectedRnc	GenericNetworkResourcesIRPSystem::AttributeTypes::MOReferenceGenericNRIRPSystem::AttributeTypes::MOReference	Read-Only, M
Connected To/connectedBss	connectedBss	GenericNetworkResourcesIRPSystem::AttributeTypes::MOReferenceGenericNRIRPSystem::AttributeTypes::MOReference	Read-Only, M

5.2.27 ~~IOC MOC~~-IupsLink

Table 27: Mapping from NRM ~~IOC MOC~~-IupsLink attributes to SS equivalent MOC IupsLink attributes

NRM Attributes of IOC MOC -IupsLink in TS 32.632 [3]	SS Attributes	SS Type	Qualifier
iupsLinkId	iupsLinkId	string	Read-Only, M
userLabel	userLabel	string	Read- Write, M
Connected To/connectedRnc	connectedRnc	GenericNetworkResourcesIRPSystem::AttributeTypes::MOReferenceGenericNRIRPSystem::AttributeTypes::MOReference	Read-Only, O
Connected To/connectedBss	connectedBss	GenericNetworkResourcesIRPSystem::AttributeTypes::MOReferenceGenericNRIRPSystem::AttributeTypes::MOReference	Read-Only, O

5.2.28 ~~IOC MOC~~-IubcLink

Table 28: Mapping from NRM ~~IOC MOC~~-IubcLink attributes to SS equivalent MOC IubcLink attributes

NRM Attributes of IOC MOC -IubcLink in TS 32.632 [3]	SS Attributes	SS Type	Qualifier
iubcLinkId	iubcLinkId	string	Read-Only, M
userLabel	userLabel	string	Read- Write, M
Connected To/connectedRnc	connectedRnc	GenericNetworkResourcesIRPSystem::AttributeTypes::MOReferenceGenericNRIRPSystem::AttributeTypes::MOReference	Read-Only, M

5.2.29 ~~IOC MOC~~-ALink

Table 29: Mapping from NRM ~~IOC MOC~~-ALink attributes to SS equivalent MOC ALink attributes

NRM Attributes of IOC MOC -ALink in TS 32.632 [3]	SS Attributes	SS Type	Qualifier
aLinkId	aLinkId	string	Read-Only, M
userLabel	userLabel	string	Read- Write, M
Connected To/connectedBss	connectedBss	GenericNetworkResourcesIRPSystem::AttributeTypes::MOReferenceGenericNRIRPSystem::AttributeTypes::MOReference	Read-Only, M

5.2.30 IOC MOC-GbLink

Table 30: Mapping from NRM IOC MOC-GbLink attributes to SS equivalent MOC GbLink attributes

NRM Attributes of <u>IOC MOC</u> lucsLink in TS 32.632 [3]	SS Attributes	SS Type	Qualifier
gbLinkId	gbLinkId	string	Read-Only, M
userLabel	userLabel	string	Read-Write, M
Connected To/connectedBss	connectedBss	GenericNetworkResourcesIRPSystem::AttributeTypes::MOReference GenericNRIRPSystem::AttributeTypes::MOReference	Read-Only, M

5.2.31 IOC MOC-CsMgwFunction

Table 32: Mapping from NRM IOC MOC-CsMgwFunction attributes to SS equivalent MOC CsMgwFunction attributes

NRM Attributes of <u>IOC MOC</u> MgwFunction in TS 32.632 [3]	SS Attributes	SS Type	Qualifier
csMgwFunctionId	csMgwFunctionId	string	Read-Only, M
userLabel	userLabel	string	Read-Write, M
Associated With/ csMgwFunction-MscServerFunction csMgwFunction-mscServerFunction	csMgwFunction-MscServerFunction csMgwFunction-mscServerFunction	GenericNetworkResourcesIRPSystem::AttributeTypes::MOReference GenericNRIRPSystem::AttributeTypes::MOReference	Read-Only, M
Connected To/ csMgwFunction-lucsLink csMgwFunction-lucsLink	csMgwFunction-lucsLink csMgwFunction-lucsLink	GenericNetworkResourcesIRPSystem::AttributeTypes::MOReferenceSet GenericNRIRPSystem::AttributeTypes::MOReference	Read-Only, M
Connected To /csMgwFunction--ALink	csMgwFunction--ALink	GenericNetworkResourcesIRPSystem::AttributeTypes::MOReferenceSet GenericNRIRPSystem::AttributeTypes::MOReference	Read-Only, M

End of Change in Clause 5.2
End of Document

Change in Annex A

Annex A (normative): CORBA IDL, NRM Definitions

```

#ifndef CoreNetworkResourcesNRMDefs_idl
#define CoreNetworkResourcesNRMDefs_idl

#pragma prefix "3gppsa5.org"

/**
 * This module defines constants for each MO class name and
 * the attribute names for each defined MO class.
 */
module CoreNetworkResourcesNRMDefs
{

    /**
     * Definitions for MO class MscServerFunction
     */
    interface MscServerFunction
    {
        const string CLASS = "MscServerFunction";

        // Attribute Names
        //
        const string mscServerFunctionId = "mscServerFunctionId";
        const string userLabel = "userLabel";
        const string mccList = "mccList";
        const string mncList = "mncList";
        const string lacList = "lacList";
        const string sacList = "sacList";
        const string gcaList = "gcaList";
        const string mscId = "mscId";
        const string mscServerFunctionGsmCell mseServerFunctionGSMcell =
"mscServerFunctionGsmCellmseServerFunctionGSMcell";
        const string mscServerFunctionExternalGsmCell mseServerFunctionExternalGSMcell =
"mscServerFunctionExternalGsmCellmseServerFunctionExternalGSMcell";
        const string mscServerFunctionCsMgwFunction =
"mscServerFunctionCsMgwFunction";
    };

    /**
     * Definitions for MO class HlrFunction
     */
    interface HlrFunction
    {
        const string CLASS = "HlrFunction";

        // Attribute Names
        //
        const string hlrFunctionId = "hlrFunctionId";
        const string userLabel = "userLabel";
    };

    /**
     * Definitions for MO class VlrFunction
     */

```

```
interface VlrFunction
{
    const string CLASS = "VlrFunction";

    // Attribute Names
    //
    const string vlrFunctionId = "vlrFunctionId";
    const string userLabel = "userLabel";
};

/**
 * Definitions for MO class AucFunction
 */
interface AucFunction
{
    const string CLASS = "AucFunction";

    // Attribute Names
    //
    const string aucFunctionId = "aucFunctionId";
    const string userLabel = "userLabel";
};

/**
 * Definitions for MO class EirFunction
 */
interface EirFunction
{
    const string CLASS = "EirFunction";

    // Attribute Names
    //
    const string eirFunctionId = "eirFunctionId";
    const string userLabel = "userLabel";
};

/**
 * Definitions for MO class SmsIwmscFunction
 */
interface SmsIwmscFunction
{
    const string CLASS = "SmsIwmscFunction";

    // Attribute Names
    //
    const string smsIwmscFunctionId = "smsIwmscFunctionId";
    const string userLabel = "userLabel";
};

/**
 * Definitions for MO class SmsGmscFunction
 */
interface SmsGmscFunction
{
    const string CLASS = "SmsGmscFunction";

    // Attribute Names
    //
    const string smsGmscFunctionId = "smsGmscFunctionId";
    const string userLabel = "userLabel";
};
```

```

/**
 * Definitions for MO class SgsnFunction
 */
interface SgsnFunction
{
    const string CLASS = "SgsnFunction";

    // Attribute Names
    //
    const string sgsnFunctionId = "sgsnFunctionId";
    const string userLabel = "userLabel";
    const string mccList = "mccList";
    const string mncList = "mncList";
    const string lacList = "lacList";
    const string racList = "racList";
    const string sacList = "sacList";
    const string sgsnId = "sgsnId";
    const string sgsnFunctionGsmCell sgsnFunctionGsmCell =
"sgsnFunctionGsmCellsgsnFunctionGsmCell";
    const string sgsnFunctionExternalGsmCell sgsnFunctionExternalGsmCell =
"sgsnFunctionExternalGsmCellsgsnFunctionExternalGsmCell";
};

/**
 * Definitions for MO class GgsnFunction
 */
interface GgsnFunction
{
    const string CLASS = "GgsnFunction";

    // Attribute Names
    //
    const string ggsnFunctionId = "ggsnFunctionId";
    const string userLabel = "userLabel";
};

/**
 * Definitions for MO class BgFunction
 */
interface BgFunction
{
    const string CLASS = "BgFunction";

    // Attribute Names
    //
    const string bgFunctionId = "bgFunctionId";
    const string userLabel = "userLabel";
};

/**
 * Definitions for MO class GmscFunction
 */
interface GmscFunction
{
    const string CLASS = "GmscFunction";

    // Attribute Names
    //
    const string gmscFunctionId = "gmscFunctionId";
    const string userLabel = "userLabel";
};

```



```
/**
 * Definitions for MO class SmlcFunction
 */
interface SmlcFunction
{
    const string CLASS = "SmlcFunction";

    // Attribute Names
    //
    const string smlcFunctionId = "smlcFunctionId";
    const string userLabel = "userLabel";
};
```

```
/**
 * Definitions for MO class GmlcFunction
 */
interface GmlcFunction
{
    const string CLASS = "GmlcFunction";

    // Attribute Names
    //
    const string gmlcFunctionId = "gmlcFunctionId";
    const string userLabel = "userLabel";
};
```

```
/**
 * Definitions for MO class ScfFunction
 */
interface ScfFunction
{
    const string CLASS = "ScfFunction";

    // Attribute Names
    //
    const string scfFunctionId = "scfFunctionId";
    const string userLabel = "userLabel";
};
```

```
/**
 * Definitions for MO class SrfFunction
 */
interface SrfFunction
{
    const string CLASS = "SrfFunction";

    // Attribute Names
    //
    const string srfFunctionId = "srfFunctionId";
    const string userLabel = "userLabel";
};
```

```
/**
 * Definitions for MO class CbcFunction
 */
interface CbcFunction
{
    const string CLASS = "CbcFunction";
```

```
    // Attribute Names
    //
    const string cbcFunctionId = "cbcFunctionId";
    const string userLabel = "userLabel";
};

/**
 * Definitions for MO class CgfFunction
 */
interface CgfFunction
{
    const string CLASS = "CgfFunction";

    // Attribute Names
    //
    const string cgfFunctionId = "cgfFunctionId";
    const string userLabel = "userLabel";
};

/**
 * Definitions for MO class ImsMgwFunction
 */
interface ImsMgwFunction
{
    const string CLASS = "ImsMgwFunction";

    // Attribute Names
    //
    const string imsMgwFunctionId = "imsMgwFunctionId";
    const string userLabel = "userLabel";
};

/**
 * Definitions for MO class GmscServerFunction
 */
interface GmscServerFunction
{
    const string CLASS = "GmscServerFunction";

    // Attribute Names
    //
    const string gmscServerFunctionId = "gmscServerFunctionId";
    const string userLabel = "userLabel";
};

/**
 * Definitions for MO class IwfFunction
 */
interface IwfFunction
{
    const string CLASS = "IwfFunction";

    // Attribute Names
    //
    const string iwfunctionId = "iwfunctionId";
    const string userLabel = "userLabel";
};

/**
```

```
* Definitions for MO class MnpSrfFunction
*/
interface MnpSrfFunction
{
    const string CLASS = "MnpSrfFunction";

    // Attribute Names
    //
    const string mnpSrfFunctionId = "mnpSrfFunctionId";
    const string userLabel = "userLabel";
};

/**
 * Definitions for MO class NpdbFunction
 */
interface NpdbFunction
{
    const string CLASS = "NpdbFunction";

    // Attribute Names
    //
    const string npdbFunctionId = "npdbFunctionId";
    const string userLabel = "userLabel";
};

/**
 * Definitions for MO class SgwFunction
 */
interface SgwFunction
{
    const string CLASS = "SgwFunction";

    // Attribute Names
    //
    const string sgwFunctionId = "sgwFunctionId";
    const string userLabel = "userLabel";
};

/**
 * Definitions for MO class SsfFunction
 */
interface SsfFunction
{
    const string CLASS = "SsfFunction";

    // Attribute Names
    //
    const string ssfFunctionId = "ssfFunctionId";
    const string userLabel = "userLabel";
};

/**
 * Definitions for MO class BsFunction
 */
interface BsFunction
{
    const string CLASS = "BsFunction";

    // Attribute Names
    //
    const string bsFunctionId = "bsFunctionId";
    const string userLabel = "userLabel";
};
```

```
};

/**
 * Definitions for MO class IucsLink
 */
interface IucsLink
{
    const string CLASS = "IucsLink";

    // Attribute Names
    //
    const string iucsLinkId = "iucsLinkId";
    const string userLabel = "userLabel";
    const string connectedRnc = "connectedRnc";
    const string connectedBss = "connectedBss";
};

/**
 * Definitions for MO class IupsLink
 */
interface IupsLink
{
    const string CLASS = "IupsLink";

    // Attribute Names
    //
    const string iupsLinkId = "iupsLinkId";
    const string userLabel = "userLabel";
    const string connectedRnc = "connectedRnc";
    const string connectedBss = "connectedBss";
};

/**
 * Definitions for MO class IubcLink
 */
interface IubcLink
{
    const string CLASS = "IubcLink";

    // Attribute Names
    //
    const string iubcLinkId = "iubcLinkId";
    const string userLabel = "userLabel";
    const string connectedRnc = "connectedRnc";
};

/**
 * Definitions for MO class ALink
 */
interface ALink
{
    const string CLASS = "ALink";

    // Attribute Names
    //
    const string aLinkId = "aLinkId";
    const string userLabel = "userLabel";
    const string connectedBss = "connectedBss";
};
```

```
/**
 * Definitions for MO class GbLink
 */
interface GbLink
{
    const string CLASS = "GbLink";

    // Attribute Names
    //
    const string gbLinkId = "gbLinkId";
    const string userLabel = "userLabel";
    const string connectedBss = "connectedBss";
};

/**
 * Definitions for MO class CsMgwFunction
 */
interface CsMgwFunction
{
    const string CLASS = "CsMgwFunction";

    // Attribute Names
    //
    const string csMgwFunctionId = "csMgwFunctionId";
    const string userLabel = "userLabel";
    const string csMgwFunctionMscServerFunction =
"csMgwFunctionMscServerFunction";
    const string csMgwFunctionIucsLink = "csMgwFunctionIucsLink";
    const string csMgwFunctionALink = "csMgwFunctionALink";
};

};

#endif
```

End of Change in Annex A End of Document

Annex B (informative): Change history

Change history							
Date	TSG #	TSG Doc.	CR	Rev	Subject/Comment	Old	New
Jun 2001	S_12	SP-010283	--	--	Approved at TSG SA #12 and placed under Change Control	2.0.0	4.0.0
Jun 2002	S_16	SP-020302	001	--	Align with Rel-4 Network Architecture (23.002) by changing Roaming Signalling Gateway (R-SGW) to Signalling Gateway (SGW)	4.0.0	4.1.0
Sep 2002	S_17	SP-020489	002	--	Upgrade to Rel-5 the CORBA SS for Core Network NRM (add Managed Object Classes (MOCs)	4.1.0	5.0.0
Dec 2002	S_18	SP-020747	003	--	Removal of faulty attribute uraList (alignment with Rel-5 32.632 Network Resource Model)	5.0.0	5.1.0
Sep 2004	S_25	SP-040567	004	--	Correction in Rules for NRM extensions - Align with 32.622 (Generic NRM IS)	5.1.0	5.2.0
Sep 2004	S_25	SP-040582	005	--	Correction of modelling of Media GateWay (MGW)	5.1.0	5.2.0

CHANGE REQUEST

⌘ **32.634 CR 007** ⌘ rev **-** ⌘ Current version: **5.3.0** ⌘

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

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

Title:	⌘ Align with 32.632, regarding the IS template and UML repertoire		
Source:	⌘ SA5 (robert.petersen@ericsson.com)		
Work item code:	⌘ OAM-NIM	Date:	⌘ 28/01/2005
Category:	⌘ F	Release:	⌘ Rel-5
	Use <u>one</u> of the following categories: F (correction) A (corresponds to a correction in an earlier release) B (addition of feature), C (functional modification of feature) D (editorial modification) Detailed explanations of the above categories can be found in 3GPP TR 21.900 .		Use <u>one</u> of the following releases: 2 (GSM Phase 2) R96 (Release 1996) R97 (Release 1997) R98 (Release 1998) R99 (Release 1999) Rel-4 (Release 4) Rel-5 (Release 5) Rel-6 (Release 6)

Reason for change:	⌘ The specification would not be aligned with the latest version of IS.
Summary of change:	⌘ The link to the IS is changed. The abbreviation IOC is added. Faulty attribute names have been corrected. The information about the non existing ExternalRncFunction is removed.
Consequences if not approved:	⌘ The specification would refer to an old version of the IS.

Clauses affected:	⌘ 1, 3.2, 4.2.2.1, 4.2.2.8 and 4.2.2.31.						
Other specs affected:	<table border="1" style="display: inline-table; border-collapse: collapse;"> <tr> <td style="width: 20px; text-align: center;">Y</td> <td style="width: 20px; text-align: center;">N</td> </tr> <tr> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> </tr> </table> Other core specifications	Y	N	<input type="checkbox"/>	<input checked="" type="checkbox"/>	⌘	
Y	N						
<input type="checkbox"/>	<input checked="" type="checkbox"/>						
	<table border="1" style="display: inline-table; border-collapse: collapse;"> <tr> <td style="width: 20px; text-align: center;">Y</td> <td style="width: 20px; text-align: center;">N</td> </tr> <tr> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> </tr> </table> Test specifications	Y	N	<input type="checkbox"/>	<input checked="" type="checkbox"/>	⌘	
Y	N						
<input type="checkbox"/>	<input checked="" type="checkbox"/>						
	<table border="1" style="display: inline-table; border-collapse: collapse;"> <tr> <td style="width: 20px; text-align: center;">Y</td> <td style="width: 20px; text-align: center;">N</td> </tr> <tr> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> </tr> </table> O&M Specifications	Y	N	<input type="checkbox"/>	<input checked="" type="checkbox"/>	⌘	
Y	N						
<input type="checkbox"/>	<input checked="" type="checkbox"/>						
Other comments:	⌘						

Change in Clause 1

1 Scope

The present document specifies the Common Management Information Protocol (CMIP) Solution Set (SS) for the CN Network Resource Integration Reference Point (IRP): Network Resource Model defined in 3GPP TS 32.632 [4]. In detail:

- Clause 4 contains an introduction to some concepts that are the base for some specific aspects of the CMIP interfaces.
- Clause 5 contains the GDMO definitions for the Alarm Management over the CMIP interfaces
- Clause 6 contains the ASN.1 definitions supporting the GDMO definitions provided in clause 5.

This Solution Set specification is related to 3GPP TS 32.632 V5.67.X [4].

End of Change in Clause 1

Change in Clause 3.2

3.2 Abbreviations

For the purposes of the present document, the following abbreviations apply:

CMIP	Common Management Information Protocol
DN	Distinguished Name
GDMO	Guidelines for the Definition of Managed Objects
IDL	Interface Definition Language
IEC	International Electrotechnical Commission
<u>IOC</u>	Information Information Object Class
ISO	International Standards Organization
ITU-T	International Telecommunication Union, Telecommunication Sector
MGW	Media GateWay
MIB	Management Information Base
MIM	Management Information Model
MIT	Management Information Tree (or Naming Tree)
MOC	Managed Object Class
MOI	Managed Object Instance
NE	Network Element
NR	Network Resource
NRM	Network Resource Model
TMN	Telecommunications Management Network
UTRAN	UMTS Terrestrial Radio Access Network

End of Change in Clause 3.2

Change in Clause 4.2.2.1

4.2.2.1 Attribute Mapping of the IOC *MscServerFunction*

Table 2: Attribute mapping of the IOC *MscServerFunction*

IS Attribute	CMIP SS Attributes	Support Qualifier	Read Qualifier	Write Qualifier
mscServerFunctionId	mscServerFunctionId	M	M	--
userLabel	userLabel (ITU-T Rec. M.3100 [9])	M	M	M
mccList	mccList	M	M	M
mncList	mncList	M	M	M
lacList	lacList	M	M	M
sacList	sacList	M	M	M
gcaList	gcaList	M	M	M
mscId	mscId	M	M	M
mscServerFunction-GsmCell mscServerFunction-ExternalGsmCell	mscServerFunction-GSMcell	M	M	--
mscServerFunction-ExternalGSMCell	mscServerFunction-ExternalGSMcell	M	M	--
mscServerFunction-CsMgwFunction	mscServerFunction-CsMgwFunction	M	M	--

End of Change in Clause 4.2.2.1

Change in Clause 4.2.2.8

4.2.2.8 Attribute Mapping of the IOC *SgsnFunction*

Table 9: Attribute mapping of the IOC *SgsnFunction*

IS Attribute	CMIP SS Attribute	Support Qualifier	Read Qualifier	Write Qualifier
sgsnFunctionId	sgsnFunctionId	M	M	--
userLabel UserLabel	userLabel (ITU-T Rec. M.3100 [9])	M	M	M
mccList	mccList	M	M	M
mncList	mncList	M	M	M
lacList	lacList	M	M	M
racList	racList	M	M	M
sacList	sacList	M	M	M
sgsnId	sgsnId	M	M	M
sgsnFunction-GsmCell sgsnFunction-ExternalGsmCell	sgsnFunction-GSMCell	M	M	--
sgsnFunction-ExternalGSMCell	sgsnFunction-ExternalGSMCell	M	M	--

End of Change in Clause 4.2.2.8

Change in Clause 4.2.2.31

4.2.2.31 Attribute Mapping of the IOC *CsMgwFunction*

Table 32: Attribute mapping of the IOC *CsMgwFunction*

IS Attribute	CMIP SS Attribute	Support Qualifier	Read Qualifier	Write Qualifier
csMgwFunctionId	CsmgwFunctionId	M	M	--
userLabel	userLabel (ITU-T Rec. M.3100 [9])	M	M	M
csMgwFunction-MscServerFunction	csMgwFunction-MscServerFunction	M	M	--
csMgwFunction-IucsLink	csMgwFunction-IucsLink	M	M	--
csMgwFunction-ALink	csMgwFunction-ALink	M	M	--

**End of Change in Clause 4.2.2.31
End of Document**

Annex B (informative): Change history

Change history							
Date	TSG #	TSG Doc.	CR	Rev	Subject/Comment	Old	New
Jun 2001	S_12	SP-010283	--	--	Approved at TSG SA #12 and placed under Change Control	2.0.0	4.0.0
Sep 2001	S_13	SP-010478	001	--	Correction due to TS renumbering	4.0.0	4.1.0
Sep 2002	--	--	--	--	Cosmetics/Styles	4.1.0	4.1.1
Dec 2002	S_18	SP-020749	002	--	Alignment of the CMIP SS with the Rel-5 version of the IS in 32.632	4.1.1	5.0.0
Dec 2003	S_22	SP-030642	003	--	Add notifications to functional objects - Align with 32.632 (IS)	5.0.0	5.1.0
Mar 2004	S_23	SP-040130	004	--	Removal of the attribute uraList from the MOC MscServerFunction – Alignment with the IS 32.632	5.1.0	5.2.0
Sep 2004	S_25	SP-040582	005	--	Correction of modelling of Media GateWay (MGW)	5.2.0	5.3.0
Sep 2004	S_25	SP-040591	006	--	Removal of the 3GPP Release# cross references in the GDMO section	5.2.0	5.3.0

CHANGE REQUEST

⌘ **32.634 CR 008** ⌘ rev **-** ⌘ Current version: **5.3.0** ⌘

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

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

Title:	⌘ Align with 32.632, with regards to ExternalRncFunction		
Source:	⌘ SA5 (robert.petersen@ericsson.com)		
Work item code:	⌘ OAM-NIM	Date:	⌘ 28/01/2005
Category:	⌘ F	Release:	⌘ Rel-5
	Use <u>one</u> of the following categories: F (correction) A (corresponds to a correction in an earlier release) B (addition of feature), C (functional modification of feature) D (editorial modification) Detailed explanations of the above categories can be found in 3GPP TR 21.900 .		Use <u>one</u> of the following releases: 2 (GSM Phase 2) R96 (Release 1996) R97 (Release 1997) R98 (Release 1998) R99 (Release 1999) Rel-4 (Release 4) Rel-5 (Release 5) Rel-6 (Release 6)

Reason for change:	⌘ The specification would not be aligned with the latest version of IS.
Summary of change:	⌘ The link to the IS is changed. ⌘ The information about the non existing ExternalRncFunction is removed.
Consequences if not approved:	⌘ The specification would refer to an old version of the IS.

Clauses affected:	⌘ 1, 5.2.32, 5.2.34, 5.2.36 and 5.3.47.						
Other specs affected:	<table border="1" style="display: inline-table; border-collapse: collapse;"> <tr> <td style="width: 20px; text-align: center;">Y</td> <td style="width: 20px; text-align: center;">N</td> </tr> <tr> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> </tr> </table> Other core specifications	Y	N	<input type="checkbox"/>	<input checked="" type="checkbox"/>	⌘	
Y	N						
<input type="checkbox"/>	<input checked="" type="checkbox"/>						
	<table border="1" style="display: inline-table; border-collapse: collapse;"> <tr> <td style="width: 20px; text-align: center;">Y</td> <td style="width: 20px; text-align: center;">N</td> </tr> <tr> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> </tr> </table> Test specifications	Y	N	<input type="checkbox"/>	<input checked="" type="checkbox"/>	⌘	
Y	N						
<input type="checkbox"/>	<input checked="" type="checkbox"/>						
	<table border="1" style="display: inline-table; border-collapse: collapse;"> <tr> <td style="width: 20px; text-align: center;">Y</td> <td style="width: 20px; text-align: center;">N</td> </tr> <tr> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> </tr> </table> O&M Specifications	Y	N	<input type="checkbox"/>	<input checked="" type="checkbox"/>	⌘	
Y	N						
<input type="checkbox"/>	<input checked="" type="checkbox"/>						
Other comments:	⌘						

Change in Clause 1

1 Scope

The present document specifies the Common Management Information Protocol (CMIP) Solution Set (SS) for the CN Network Resource Integration Reference Point (IRP): Network Resource Model defined in 3GPP TS 32.632 [4]. In detail:

- Clause 4 contains an introduction to some concepts that are the base for some specific aspects of the CMIP interfaces.
- Clause 5 contains the GDMO definitions for the Alarm Management over the CMIP interfaces
- Clause 6 contains the ASN.1 definitions supporting the GDMO definitions provided in clause 5.

This Solution Set specification is related to 3GPP TS 32.632 V5.67.X [4].

End of Change in Clause 1

Change in Clause 5.2.32

5.2.32 iucsLinkAssociationPackage

```
iucsLinkAssociationPackage PACKAGE
  BEHAVIOUR
    iucsLinkAssociationPackageBehaviour;
  ATTRIBUTES
    connectedRnc      GET,
    connectedBss      GET;
REGISTERED AS {ts32-634Package 32};
```

```
iucsLinkAssociationPackageBehaviour BEHAVIOUR
DEFINED AS
  "This Package contains the attributes of an 'iucsLink' information object in relation with
  associations to Bss/RncFunction or ExternalBss/RncFunction objects";
```

End of Change in Clause 5.2.32

Change in Clause 5.2.34

5.2.34 iupsLinkAssociationPackage

```
iupsLinkAssociationPackage PACKAGE
  BEHAVIOUR
    iupsLinkAssociationPackageBehaviour;
  ATTRIBUTES
    connectedRnc      GET,
    connectedBss      GET;
REGISTERED AS {ts32-634Package 34};
```

```
iupsLinkAssociationPackageBehaviour BEHAVIOUR
DEFINED AS
  "This Package contains the attributes of an 'iupsLink' information object in relation with
  associations to Bss/RncFunction or ExternalBss/RncFunction objects";
```

End of Change in Clause 5.2.34

Change in Clause 5.2.36

5.2.36 iubcLinkAssociationPackage

```
iubcLinkAssociationPackage PACKAGE
  BEHAVIOUR
```

```
iubcLinkAssociationPackageBehaviour;
ATTRIBUTES
    connectedRnc      GET;
REGISTERED AS {ts32-634Package 36};
```

```
iubcLinkAssociationPackageBehaviour BEHAVIOUR
DEFINED AS
    "This Package contains the attributes of an 'iubcLink' information object in relation with
    associations to RncFunction or ExternalRncFunction objects";
```

End of Change in Clause 5.2.36

Change in Clause 5.3.47

5.3.47 connectedRnc

```
connectedRnc ATTRIBUTE
WITH ATTRIBUTE SYNTAX
    TS32-634TypeModule.GeneralObjectPointer;
MATCHES FOR
    EQUALITY;
BEHAVIOUR
    connectedRncBehaviour;
REGISTERED AS {ts32-634Attribute 47};
```

```
connectedRncBehaviour BEHAVIOUR
DEFINED AS
    "This value contains the DN of the related RncFunction or ExternalRncFunction instance. This is
    a reference attribute modelling the role (of the association AssociatedWith) that link is
    connected to 0-1 RncFunction or 0-1 ExternalRncFunction.";
```

End of Change in Clause 5.3.47
End of Document

Annex B (informative): Change history

Change history							
Date	TSG #	TSG Doc.	CR	Rev	Subject/Comment	Old	New
Jun 2001	S_12	SP-010283	--	--	Approved at TSG SA #12 and placed under Change Control	2.0.0	4.0.0
Sep 2001	S_13	SP-010478	001	--	Correction due to TS renumbering	4.0.0	4.1.0
Sep 2002	--	--	--	--	Cosmetics/Styles	4.1.0	4.1.1
Dec 2002	S_18	SP-020749	002	--	Alignment of the CMIP SS with the Rel-5 version of the IS in 32.632	4.1.1	5.0.0
Dec 2003	S_22	SP-030642	003	--	Add notifications to functional objects - Align with 32.632 (IS)	5.0.0	5.1.0
Mar 2004	S_23	SP-040130	004	--	Removal of the attribute uralist from the MOC MscServerFunction - Alignment with the IS 32.632	5.1.0	5.2.0
Sep 2004	S_25	SP-040582	005	--	Correction of modelling of Media GateWay (MGW)	5.2.0	5.3.0
Sep 2004	S_25	SP-040591	006	--	Removal of the 3GPP Release# cross references in the GDMO section	5.2.0	5.3.0

CHANGE REQUEST

⌘ **32.635 CR 009** ⌘ rev **-** ⌘ Current version: **5.4.0** ⌘

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

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

Title:	⌘ Align with 32.632, regarding the IS template and UML repertoire		
Source:	⌘ SA5 (robert.petersen@ericsson.com)		
Work item code:	⌘ OAM-NIM	Date:	⌘ 28/01/2005
Category:	⌘ F	Release:	⌘ Rel-5
	Use <u>one</u> of the following categories: F (correction) A (corresponds to a correction in an earlier release) B (addition of feature), C (functional modification of feature) D (editorial modification) Detailed explanations of the above categories can be found in 3GPP TR 21.900 .		Use <u>one</u> of the following releases: 2 (GSM Phase 2) R96 (Release 1996) R97 (Release 1997) R98 (Release 1998) R99 (Release 1999) Rel-4 (Release 4) Rel-5 (Release 5) Rel-6 (Release 6)

Reason for change:	⌘ The specification would not be aligned with the latest version of IS.		
Summary of change:	⌘ The link to the IS is changed. ⌘ The archive for the XML Schema is changed.		
Consequences if not approved:	⌘ The specification would refer to an old version of the IS.		

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

Change in Clause 1

1 Scope

The present document provides the NRM-specific part related to the Core Network Resources IRP NRM [1] of the XML file format definition for the Bulk Configuration Management IRP IS [2].

The main part of this XML file format definition is provided by 3GPP TS 32.615 [3].

Bulk CM XML file formats are based on XML [4], XML Schema [5] [6] [7] and XML Namespace [8] standards.

This File Format Definition specification is related to 3GPP TS 32.632 (V5.57.X).

End of Change in Clause 1
End of Document

Change in Annex A

Annex A (normative): Configuration data file NRM-specific XML schema (file name "coreNrm.xsd")

The following XML schema `coreNrm.xsd` is the NRM-specific schema for the Core Network Resources IRP NRM defined in 3GPP TS 32.632 [1]:

```
<?xml version="1.0" encoding="UTF-8"?>

<!--
  3GPP TS 32.635 Core Network Resources IRP
  Bulk CM Configuration data file NRM-specific XML schema
  coreNrm.xsd
-->

<schema
  targetNamespace=
"http://www.3gpp.org/ftp/specs/archive/32_series/32.635#coreNrm"
  elementFormDefault="qualified"
  xmlns="http://www.w3.org/2001/XMLSchema"
  xmlns:xn=
"http://www.3gpp.org/ftp/specs/archive/32_series/32.625#genericNrm"
  xmlns:cn=
"http://www.3gpp.org/ftp/specs/archive/32_series/32.635#coreNrm"
>

  <import
    namespace=
"http://www.3gpp.org/ftp/specs/archive/32_series/32.625#genericNrm"
  />

  <!-- Core Network Resources IRP NRM class associated XML elements -->

  <element
    name="MscServerFunction"
    substitutionGroup="xn:ManagedElementOptionallyContainedNrmClass"
  >
    <complexType>
      <complexContent>
        <extension base="xn:NrmClass">
          <sequence>
            <element name="attributes" minOccurs="0">
              <complexType>
                <all>
                  <element name="userLabel" minOccurs="0"/>
                  <element name="mccList" minOccurs="0"/>
                  <element name="mncList" minOccurs="0"/>
                  <element name="lacList" minOccurs="0"/>
                  <element name="sacList" minOccurs="0"/>
                  <element name="gcaList" minOccurs="0"/>
                  <element name="mscId" minOccurs="0"/>
                </all>
              </complexType>
            </element>
            <choice minOccurs="0" maxOccurs="unbounded">
              <element name="mscServerFunctionGsmCell" minOccurs="0" maxOccurs="unbounded"/>
              <del><element name="mseServerFunctionGSMeCell" minOccurs="0" maxOccurs="unbounded"/></del>
            </choice>
          </sequence>
        </extension>
      </complexContent>
    </complexType>
  </element>

```



```

| name= "mScServerFunctionExternalGsmCellmScServerFunctionExternalGSMeell" />
    <element name="mScServerFunctionCsMgwFunction" />
    <element ref="xn:VsDataContainer" />
  </choice>
</sequence>
</extension>
</complexContent>
</complexType>
</element>

<element
  name="HlrFunction"
  substitutionGroup="xn:ManagedElementOptionallyContainedNrmClass"
>
  <complexType>
    <complexContent>
      <extension base="xn:NrmClass">
        <sequence>
          <element name="attributes" minOccurs="0">
            <complexType>
              <all>
                <element name="userLabel" minOccurs="0" />
              </all>
            </complexType>
          </element>
          <choice minOccurs="0" maxOccurs="unbounded">
            <element ref="xn:VsDataContainer" />
          </choice>
        </sequence>
      </extension>
    </complexContent>
  </complexType>
</element>

<element
  name="VlrFunction"
  substitutionGroup="xn:ManagedElementOptionallyContainedNrmClass"
>
  <complexType>
    <complexContent>
      <extension base="xn:NrmClass">
        <sequence>
          <element name="attributes" minOccurs="0">
            <complexType>
              <all>
                <element name="userLabel" minOccurs="0" />
              </all>
            </complexType>
          </element>
          <choice minOccurs="0" maxOccurs="unbounded">
            <element ref="xn:VsDataContainer" />
          </choice>
        </sequence>
      </extension>
    </complexContent>
  </complexType>
</element>

<element
  name="AucFunction"
  substitutionGroup="xn:ManagedElementOptionallyContainedNrmClass"
>
  <complexType>

```

```

<complexContent>
  <extension base="xn:NrmClass">
    <sequence>
      <element name="attributes" minOccurs="0">
        <complexType>
          <all>
            <element name="userLabel" minOccurs="0"/>
          </all>
        </complexType>
      </element>
      <choice minOccurs="0" maxOccurs="unbounded">
        <element ref="xn:VsDataContainer"/>
      </choice>
    </sequence>
  </extension>
</complexContent>
</complexType>
</element>

<element
  name="EirFunction"
  substitutionGroup="xn:ManagedElementOptionallyContainedNrmClass"
>
  <complexType>
    <complexContent>
      <extension base="xn:NrmClass">
        <sequence>
          <element name="attributes" minOccurs="0">
            <complexType>
              <all>
                <element name="userLabel" minOccurs="0"/>
              </all>
            </complexType>
          </element>
          <choice minOccurs="0" maxOccurs="unbounded">
            <element ref="xn:VsDataContainer"/>
          </choice>
        </sequence>
      </extension>
    </complexContent>
  </complexType>
</element>

<element
  name="SmsIwmscFunction"
  substitutionGroup="xn:ManagedElementOptionallyContainedNrmClass"
>
  <complexType>
    <complexContent>
      <extension base="xn:NrmClass">
        <sequence>
          <element name="attributes" minOccurs="0">
            <complexType>
              <all>
                <element name="userLabel" minOccurs="0"/>
              </all>
            </complexType>
          </element>
          <choice minOccurs="0" maxOccurs="unbounded">
            <element ref="xn:VsDataContainer"/>
          </choice>
        </sequence>
      </extension>
    </complexContent>
  </complexType>
</element>

```

```

    </complexContent>
  </complexType>
</element>

<element
  name="SmsGmscFunction"
  substitutionGroup="xn:ManagedElementOptionallyContainedNrmClass"
>
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End of Change in Annex A

Change in Clause Annex B

Annex B (informative): XML schema electronic files

The electronic files corresponding to the normative XML schemas defined in the present document are available in native form in the following archive:

http://www.3gpp.org/ftp/specs/archive/32_series/32.635/schema/32635-5450-XMLSchema.zip

**End of Change in Annex B
End of Document**

Annex C (informative): Change history

Change history							
Date	TSG #	TSG Doc.	CR	Rev	Subject/Comment	Old	New
Jun 2002	S_16	SP-020298	--	--	Submitted to TSG SA #16 for Information	1.0.0	
Sep 2002	S_17	SP-020461	--	--	Submitted to TSG SA #17 for Approval	2.0.0	5.0.0
Jun 2003	S_20	SP-030287	001	--	Correction of Core NRM XML schema namespace URIs	5.0.0	5.1.0
Jun 2003	S_20	SP-030288	002	--	Generic NRM XML schema dependencies removal	5.0.0	5.1.0
Oct 2003	--	--	--	--	Attached to this TS the normative XML schema electronic files corresponding to June 2003 TS 32.635	5.1.0	5.1.1
Mar 2004	S_23	SP-040131	003	--	Add the capability to contain instances of VsDataContainer to some MOs - Align with the IS 32.632	5.1.1	5.2.0
Jun 2004	S_24	SP-040259	004	--	Removal of XML schema URI dependencies	5.2.0	5.3.0
Jun 2004	S_24	SP-040258	005	--	Correction of the annex related to XML schema electronic files publication	5.2.0	5.3.0
Sep 2004	S_25	SP-040583	006	--	Add missing elements in the Core Network XML file format definition	5.3.0	5.4.0
Sep 2004	S_25	SP-040582	007	--	Correction of modelling of Media GateWay (MGW)	5.3.0	5.4.0

**3GPP TSG-SA5 (Telecom Management)
Meeting #41, Lisbon, PORTUGAL, 24 - 28 January 2005**

Tdoc #S5-058125

CR-Form-v7.1

CHANGE REQUEST

⌘ **32.632 CR 016** ⌘ rev **-** ⌘ Current version: **6.1.0** ⌘

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

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

Title:	⌘ Align with 32.151 and 32.152, regarding the IS template and UML repertoire		
Source:	⌘ SA5 (robert.petersen@ericsson.com)		
Work item code:	⌘ OAM-NIM	Date:	⌘ 28/01/2005
Category:	⌘ A	Release:	⌘ Rel-6
	Use <u>one</u> of the following categories: F (correction) A (corresponds to a correction in an earlier release) B (addition of feature), C (functional modification of feature) D (editorial modification) Detailed explanations of the above categories can be found in 3GPP TR 21.900 .		Use <u>one</u> of the following releases: Ph2 (GSM Phase 2) R96 (Release 1996) R97 (Release 1997) R98 (Release 1998) R99 (Release 1999) Rel-4 (Release 4) Rel-5 (Release 5) Rel-6 (Release 6) Rel-7 (Release 7)

Reason for change:	⌘ The specification is not aligned with the IRP IS template in 32.151 and the UML repertoire in 32.152. ISes shall contain Information Object Classes not Managed Object Classes. The specification should not contain information about Interface IRPs. The information about imported entities are missing.
Summary of change:	⌘ Information regarding Interface IRPs has been removed. Headings have changed names according to the IS Template. Headings have been added according to the TS Template. The UML diagrams has been remade according to the UML repertoire. Fonts have been changed on IOCs, attributes and relations according to the IS Template. The imported IOCs have been added. References to specifications contining imported IOCs have been added. The term IOC has been used when it is relevant.
Consequences if not approved:	⌘ The specification would not be aligned with 32.151 and 32.152.

Clauses affected:	⌘ 1, 2, 3.1, 4, 5 and 6.										
Other specs affected:	<table border="1"> <tr> <td>Y</td> <td>N</td> </tr> <tr> <td><input type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> </tr> <tr> <td><input type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> </tr> <tr> <td><input checked="" type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> </table>	Y	N	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Other core specifications Test specifications O&M Specifications	⌘ 32.633, 32.634 and 32.635
Y	N										
<input type="checkbox"/>	<input checked="" type="checkbox"/>										
<input type="checkbox"/>	<input checked="" type="checkbox"/>										
<input checked="" type="checkbox"/>	<input type="checkbox"/>										
Other comments:	⌘										

Change in Clause 1

1 Scope

The present document is part of an Integration Reference Point (IRP) named "Core Network Resources IRP", through which an 'IRPAgent' (typically an Element Manager or Network Element) can communicate Configuration Management information to one or several 'IRPManagers' (typically Network Managers) concerning CN resources. This version of the IRP is mainly intended for "passive management" of high-level network configuration and status information as required by a Network Manager. The "Core Network Resources IRP" comprises a set of specifications defining Requirements, a protocol neutral Network Resource Model (NRM) and corresponding Solution Set(s).

The present document specifies the protocol neutral Core Network Resources IRP: Network Resource Model. It reuses relevant parts of the generic NRM in 3GPP TS 32.622 [16], either by direct reuse or sub-classing, and in addition to that defines CN specific [Information Managed](#)-Object Classes. Release 6 introduces support for management of IMS entities addressed in 3GPP TS 23.228 [21].

The Configuration Management (CM) area is very large. The intention is to split the specification of the related interfaces in several IRPs - as described in the Introduction clause above. An important aspect of such a split is that the Network Resource Models (NRMs) defined in different IRPs containing NRMs are consistent, and that NRMs supported by an IRPAgent implementation can be accessed as one coherent model through one IRP Information Service (IS).

To summarize, the present document has the following main purpose: to define the applied CN specific Network Resource Model, based on the generic NRM in 3GPP TS 32.622 [16].

Finally, in order to access the information defined by this NRM, an IRP Information Service (IS) is needed, such as the Basic CM IRP: IS 3GPP TS 32.602 [17]. However, which Information Service that is applicable is outside the scope of the present document.

End of Change in Clause 1

Change in Clause 2

2 References

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

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

[1] 3GPP TS 32.101: "Telecommunication management; Principles and high level requirements".

[2] 3GPP TS 32.102: "Telecommunication management; Architecture".

[3] 3GPP TS 32.302: "Telecommunication management; Configuration Management (CM); Notification Integration Reference Point; Information Service (IS)".

[4]- [3GPP TS 32.642: "Telecommunication management; Configuration Management \(CM\); UTRAN network resources Integration Reference Point \(IRP\); Network Resource Model \(NRM\)".](#)

- [5] [3GPP TS 32.652: "Telecommunication management; Configuration Management \(CM\); GERAN network resources Integration Reference Point \(IRP\): Network Resource Model \(NRM\)".](#)
- [6] Void.
- [7] ITU-T Recommendation X.710 (1991): "Common management information service definition for CCITT applications".
- [8] - [10] Void.
- [11] 3GPP TS 32.111-2: "Telecommunication management; Fault Management; Part 2: Alarm Integration Reference Point: Information Service (IS)".
- [12] Void.
- [13] 3GPP TS 32.300: "Telecommunication management; Configuration Management (CM); Name convention for Managed Objects".
- [14] 3GPP TS 32.600: "Telecommunication management; Configuration Management (CM); Concept and high-level requirements".
- [15] 3GPP TS 23.002: "Network architecture".
- [16] 3GPP TS 32.622: "Telecommunication management; Configuration Management (CM); Generic network resources Integration Reference Point (IRP): Network Resource Model (NRM)".
- [17] 3GPP TS 32.602: "Telecommunication management; Configuration Management (CM); Basic Configuration Management Integration Reference Point (IRP): Information Service (IS)".
- [18] 3GPP TS 23.060: "General Packet Radio Service (GPRS) service description; Stage 2".
- [19] 3GPP TS 23.003: "Numbering, addressing and identification".
- [20] 3GPP TS 32.672: "Telecommunication Management; Configuration Management (CM); State Management Integration Reference Point (IRP): Information Service (IS)".
- [21] 3GPP TS 23.228: "IP Multimedia Subsystem (IMS) Stage 2".

End of Change in Clause 2

Change in Clause 3.1

3.1 Definitions

For the purposes of the present document, the terms and definitions given in 3GPP TS 32.101 [1], 3GPP TS 32.102 [2], 3GPP TS 32.600 [14] and the following apply:

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

- (1) name bindings;
- (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).

Managed Element (ME): an instance of the [Information Managed](#)-Object Class [ManagedElement](#) ~~Managed Element~~ defined in 3GPP TS 32.622 [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. 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, 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). The IOC may support the emission of *notifications* that provide information about an event occurrence within a network resource.

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

Network Resource Model (NRM): a model representing the actual managed telecommunications network resources that a System is providing through the subject IRP

An NRM identifies and describes IOCs, 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.

End of Change in Clause 3.1

Change in Clause 4

4 System overview

4.1 ~~Void~~System context

~~Figure 4.1 and figure 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 3GPP TS 32.102 [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.~~

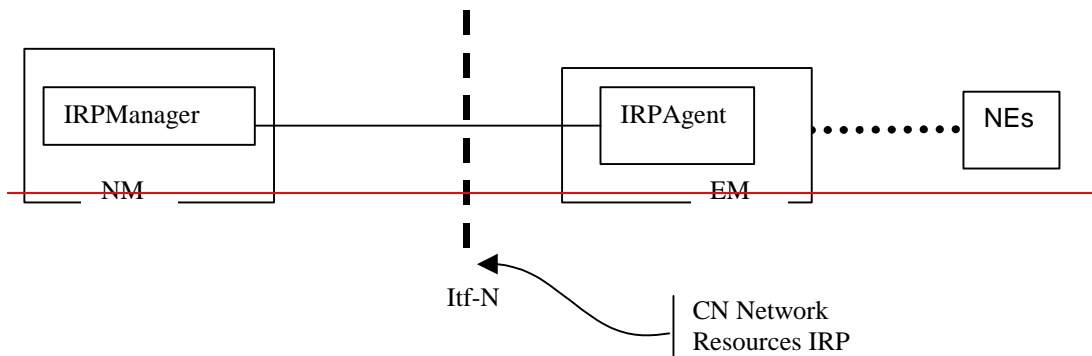


Figure 4.1: System Context A

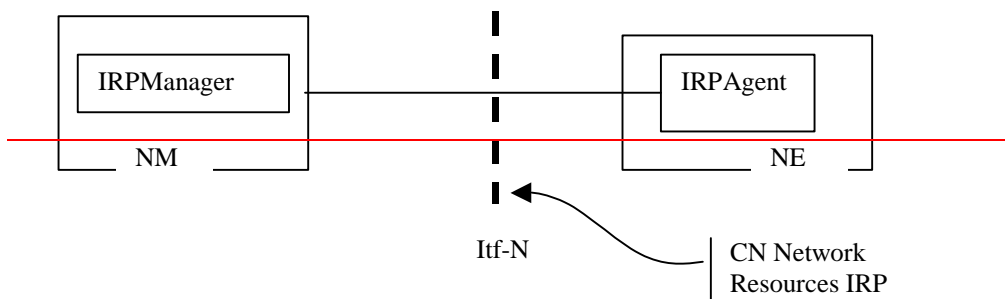


Figure 4.2: System Context B

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:

- 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 information object classes, attributes, ~~and~~ 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 recognized 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.

End of Change in Clause 4

Change in Clause 5

5 Modelling approach

The modelling approach is described in the Generic Network Resources IRP: NRM (3GPP TS 32.622 [16]).

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

End of Change in Clause 5

Change in Clause 6

6 Information Object Classes ~~IRP Information Model~~

6.1 Imported information entities ~~Information entities imported~~ and local labels

<u>Label reference</u>	<u>Local label</u>
32.622 [16], information object class, ManagedElement	ManagedElement
32.642 [4], information object class, RncFunction	RncFunction
32.652 [5], information object class, BssFunction	BssFunction
32.652 [5], information object class, ExternalBssFunction	ExternalBssFunction
32.652 [5], information object class, ExternalGsmCell	ExternalGsmCell
32.652 [5], information object class, GsmCell	GsmCell

~~None.~~

6.2 Class diagrams ~~s~~

6.2.1 Attributes and relationships

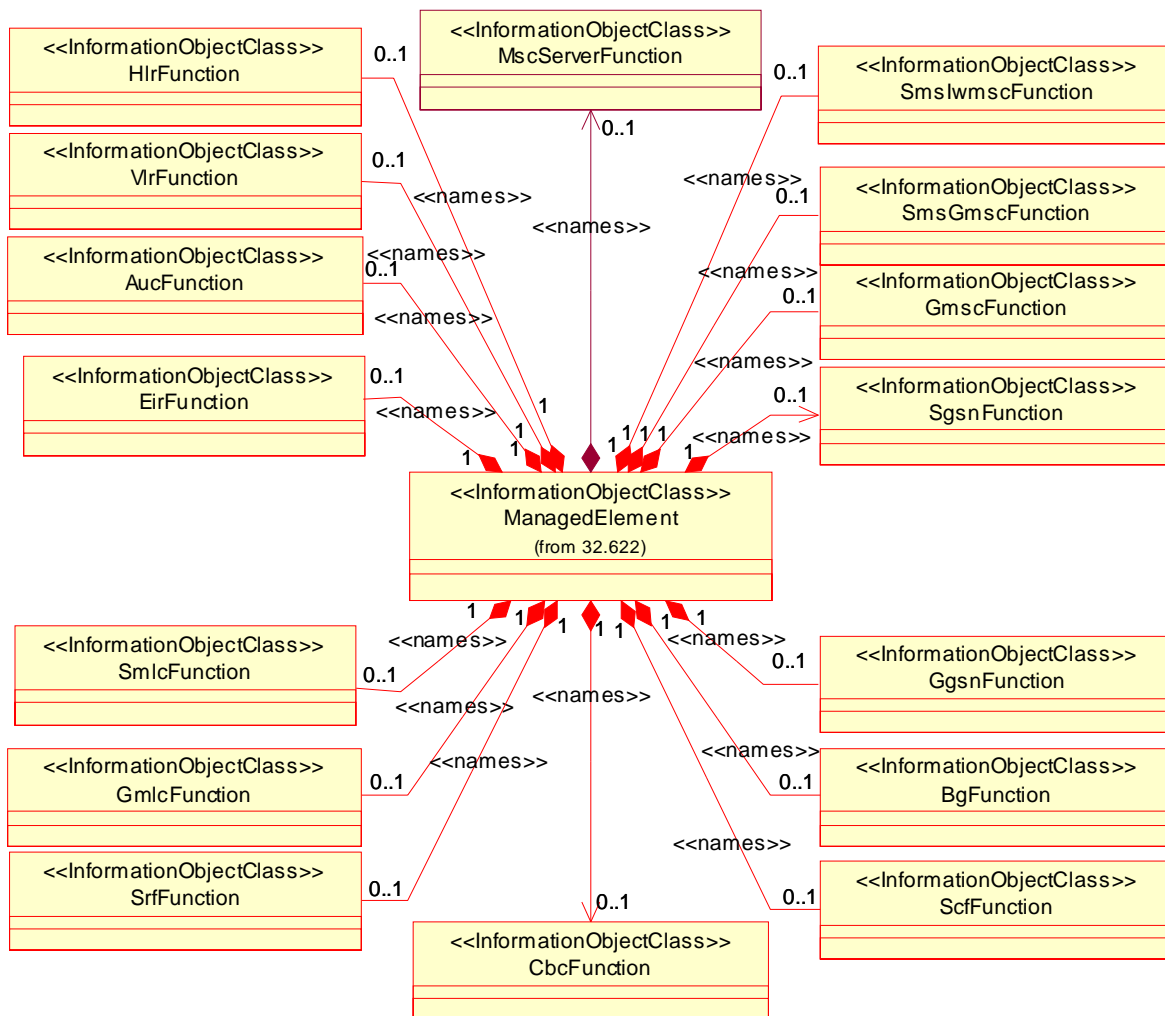
This clause depicts the set of IOCs that encapsulate information relevant for this service. This clause provides the overview of all information object classes in UML. Subsequent clauses provide more detailed specification of various aspects of these information object classes.

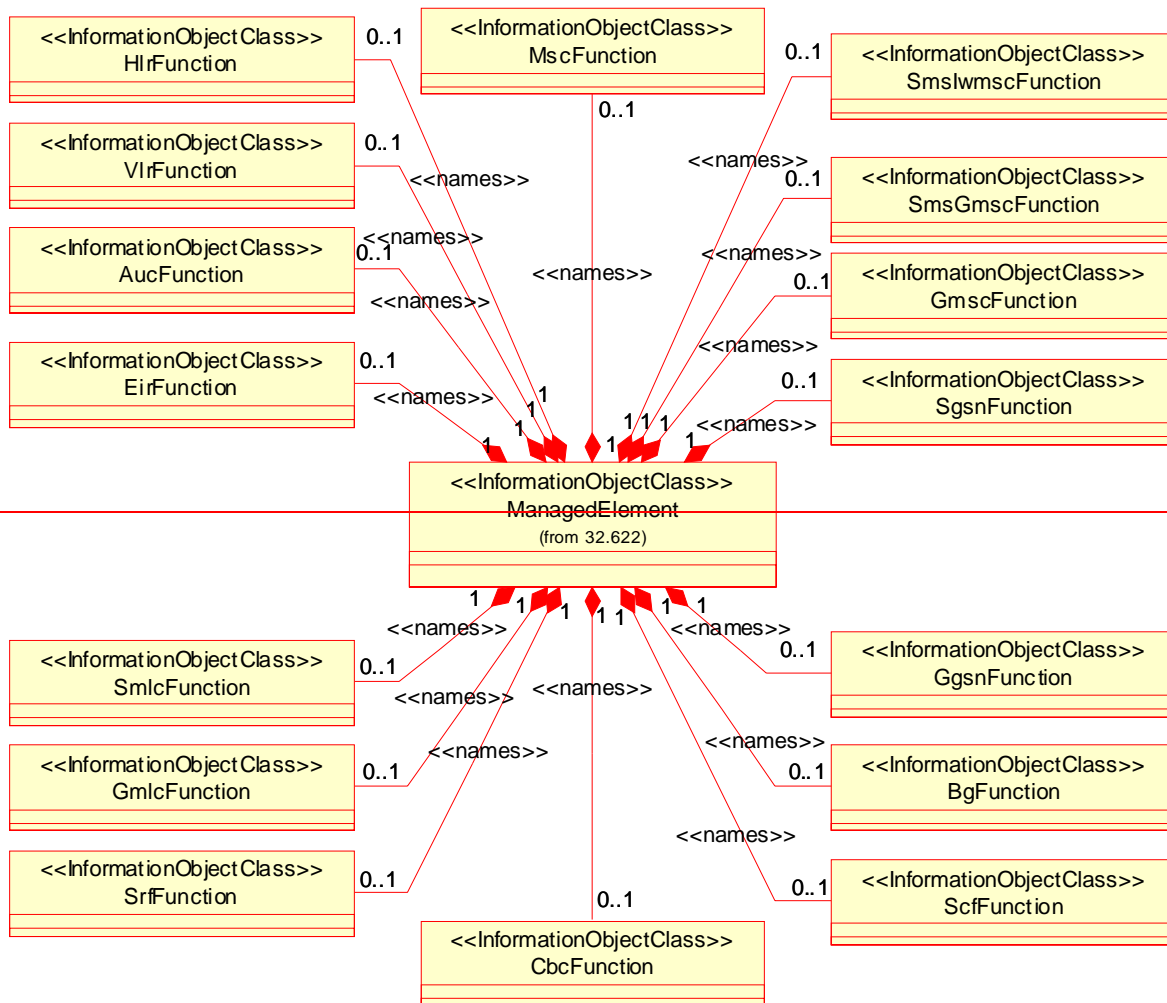
~~The F~~ figures below 6.2.1.1 to 6.2.1.4 show the ~~name~~-containment-/naming hierarchy and the associations of the information object classes defined in the present document ~~relation and other types of relations of the CN-NRM.~~

~~NOTE 1: The name containment relations between IOCs are indicated by UML "unidirectional aggregation by reference" ("hollow diamonds").~~

~~NOTE 2~~ 1: The listed cardinality numbers represent transient as well as steady-state numbers, and reflect all managed object creation and deletion scenarios in all figures.

NOTE 2: IMS Entities (containing combinations of functions) like MGW, CSCF and MRF are not modelled. Instead, functionally specific entities like CS-MGW, IMS-MGW, P-CSCF, S-CSCF, I-CSCF, MRFC and MRFP have been modelled.





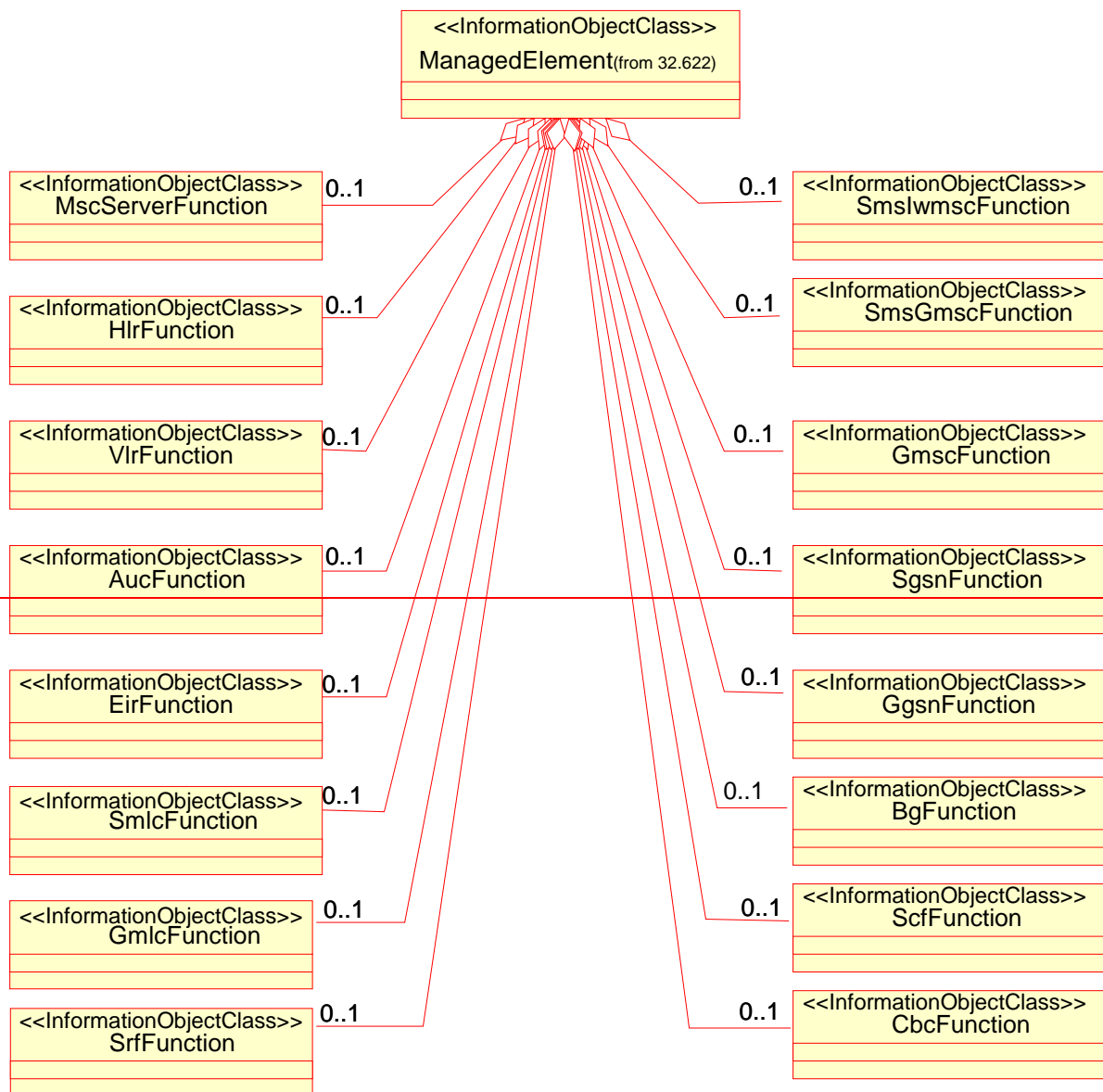
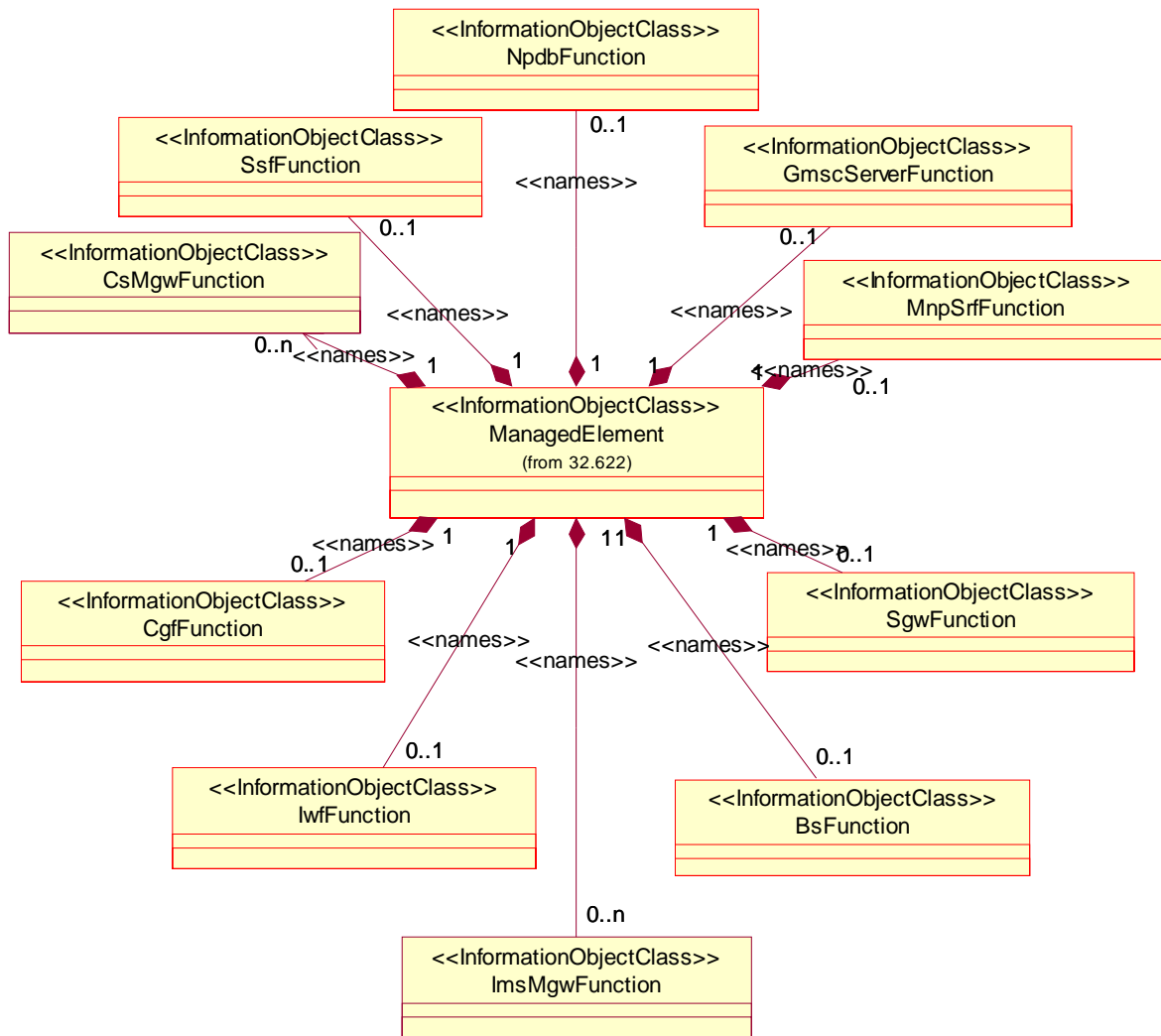


Figure 6.2.1.1: CN NRM Containment/Naming and Association



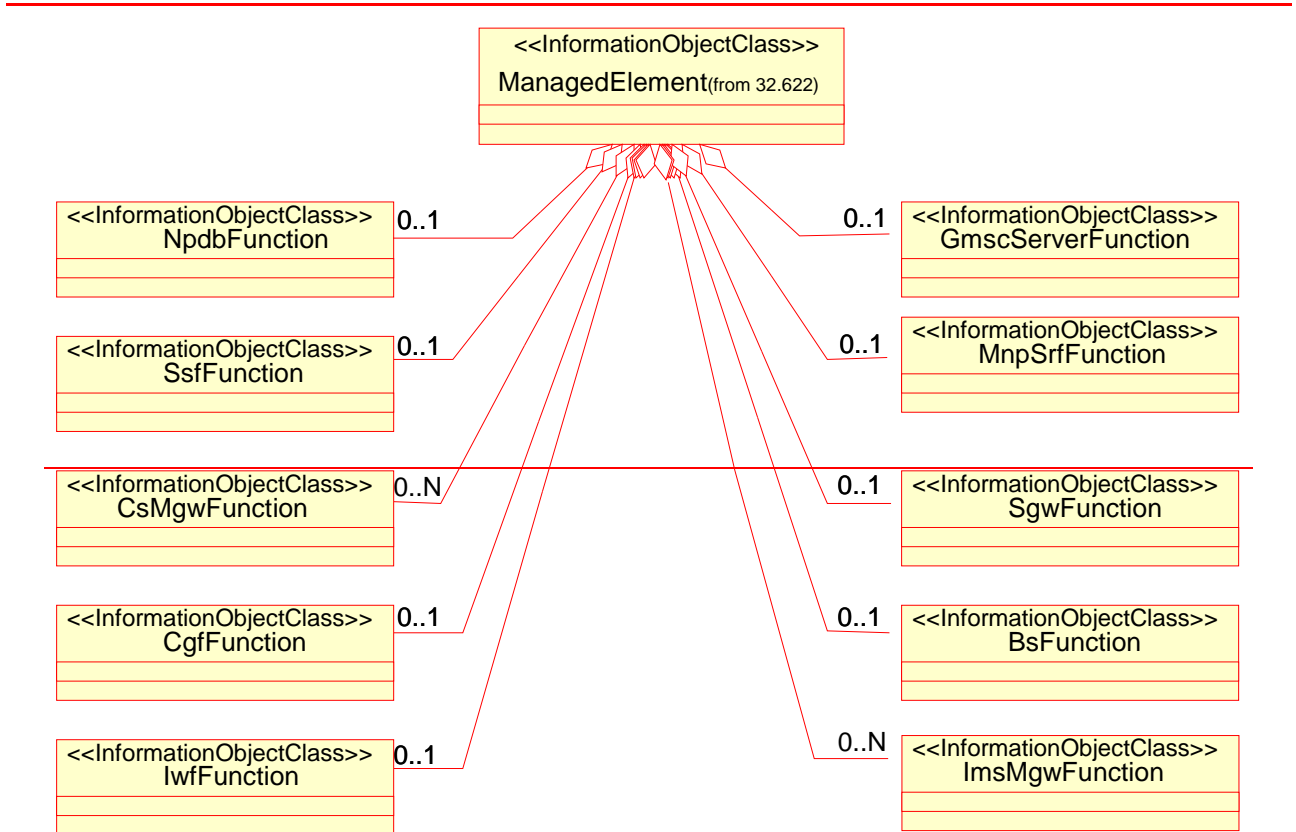
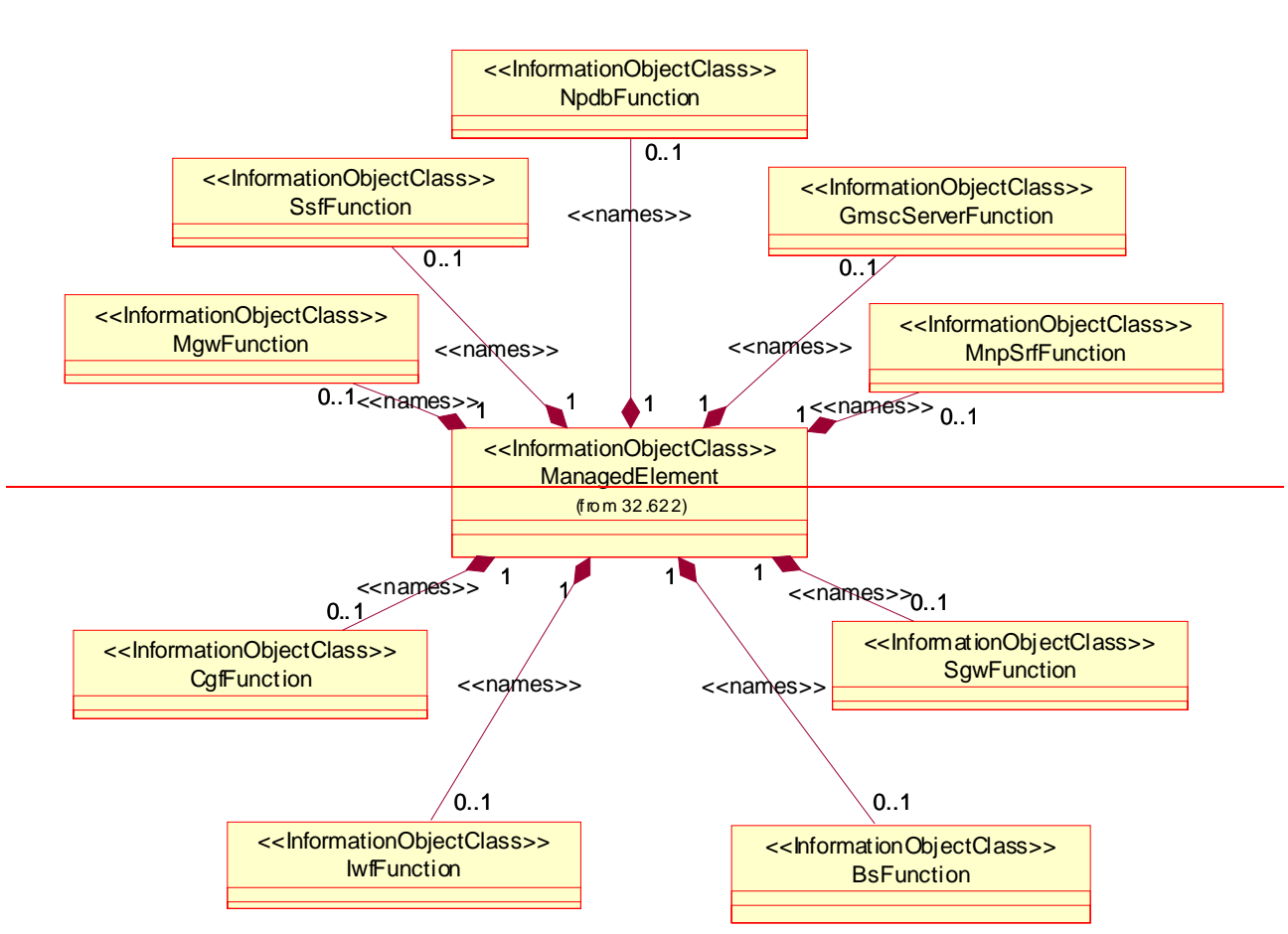


Figure 6.2.1.2: CN NRM Containment/Naming and Association

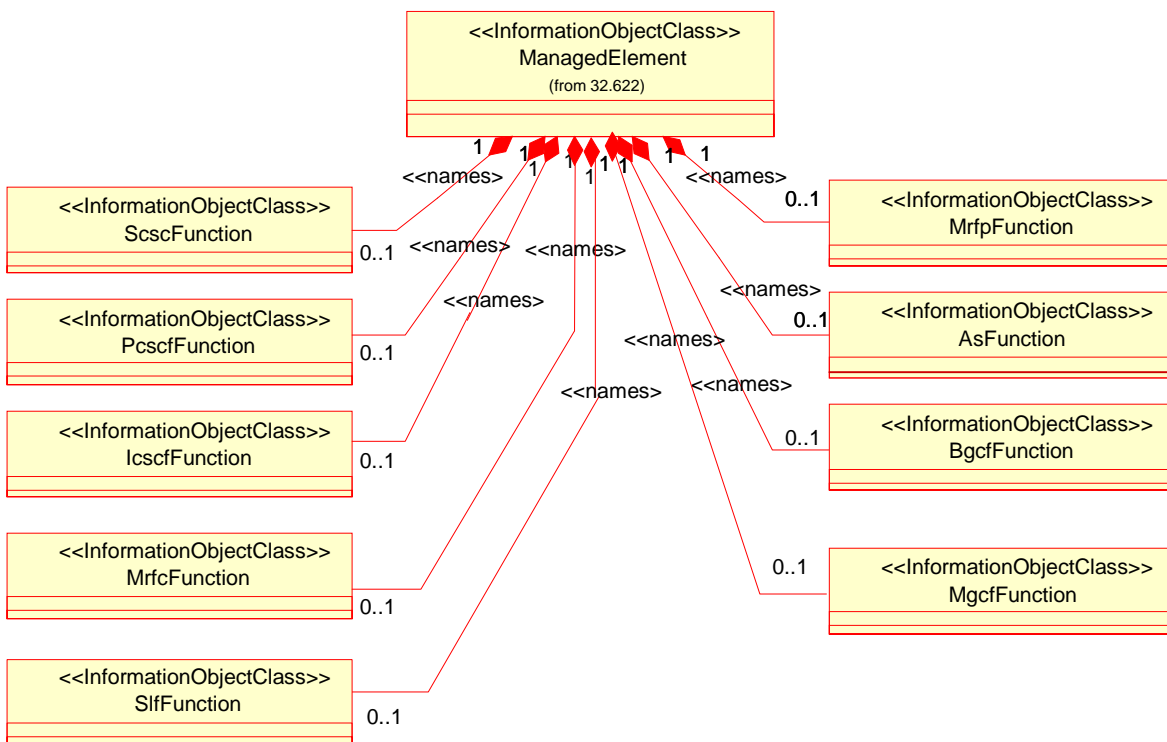
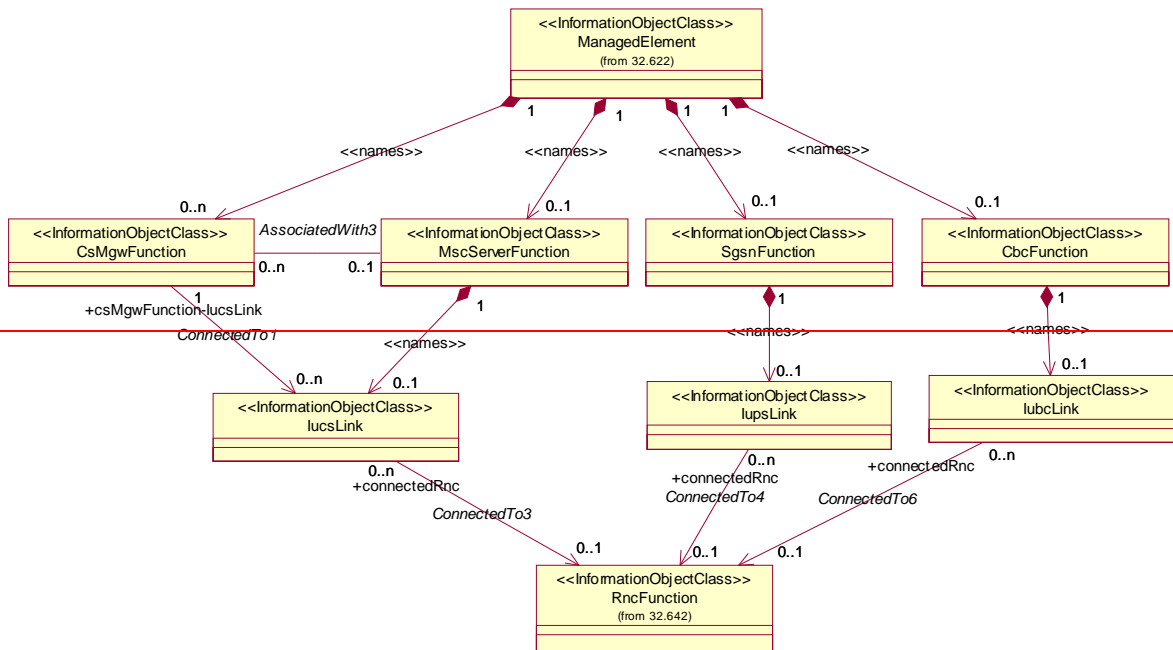
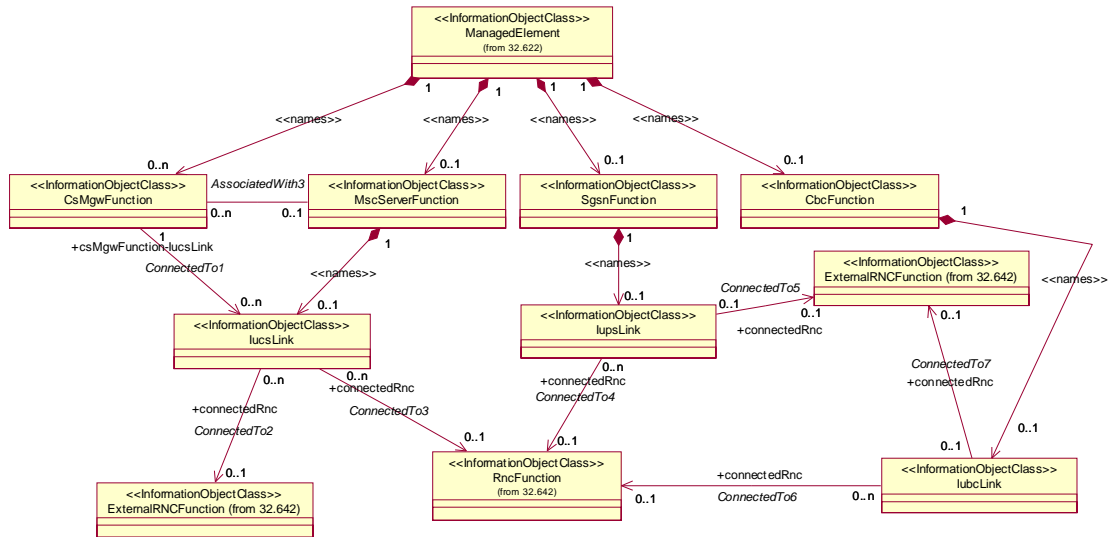


Figure 6.2.1.3: CN NRM Containment/Naming and Association



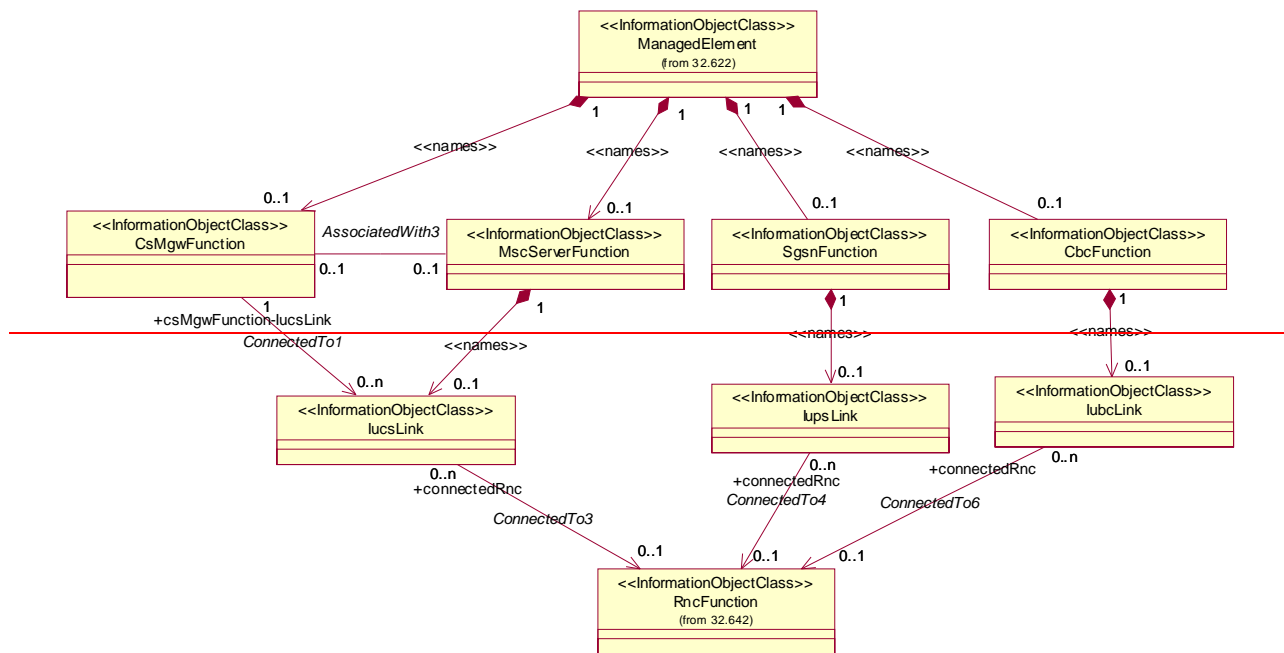
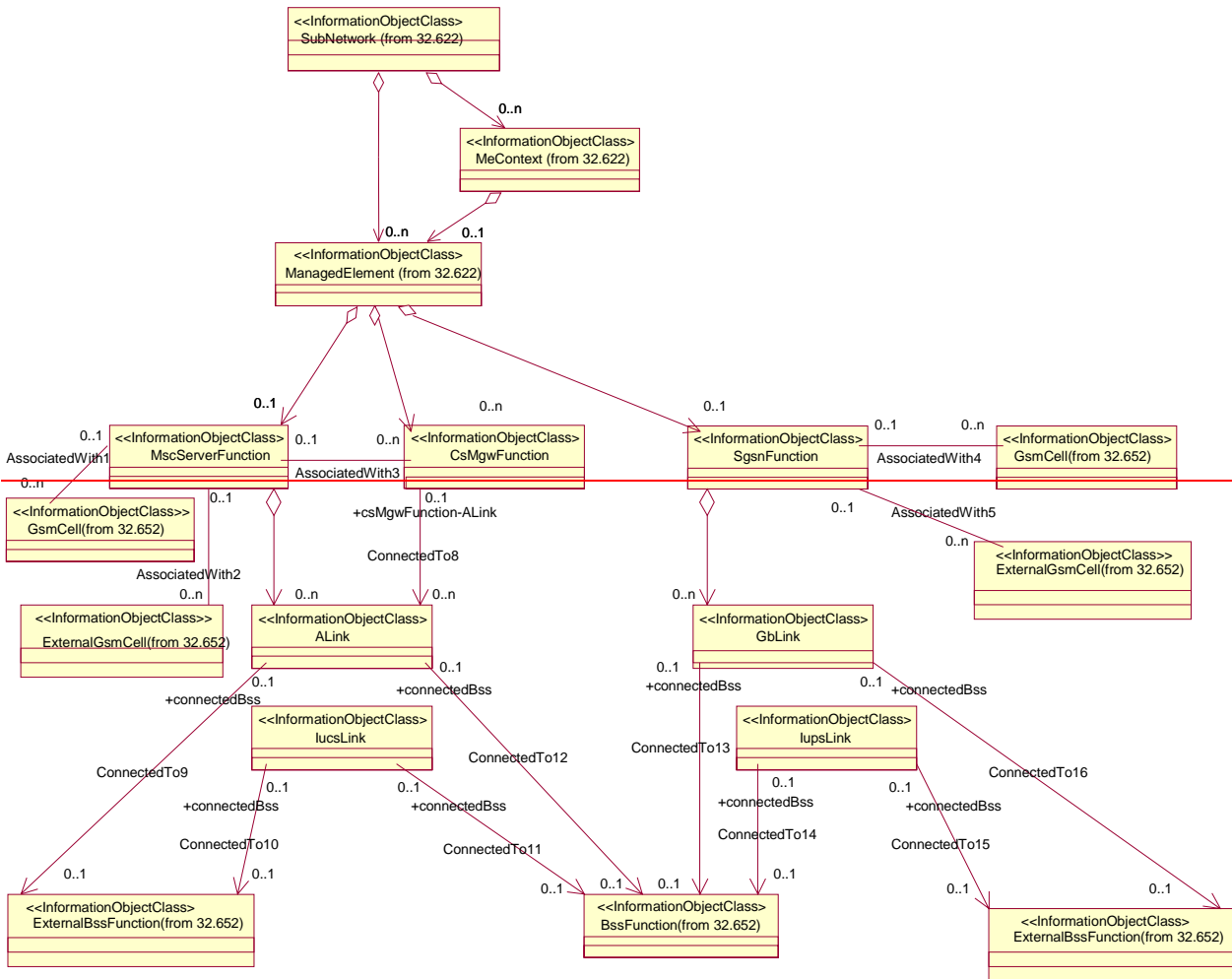
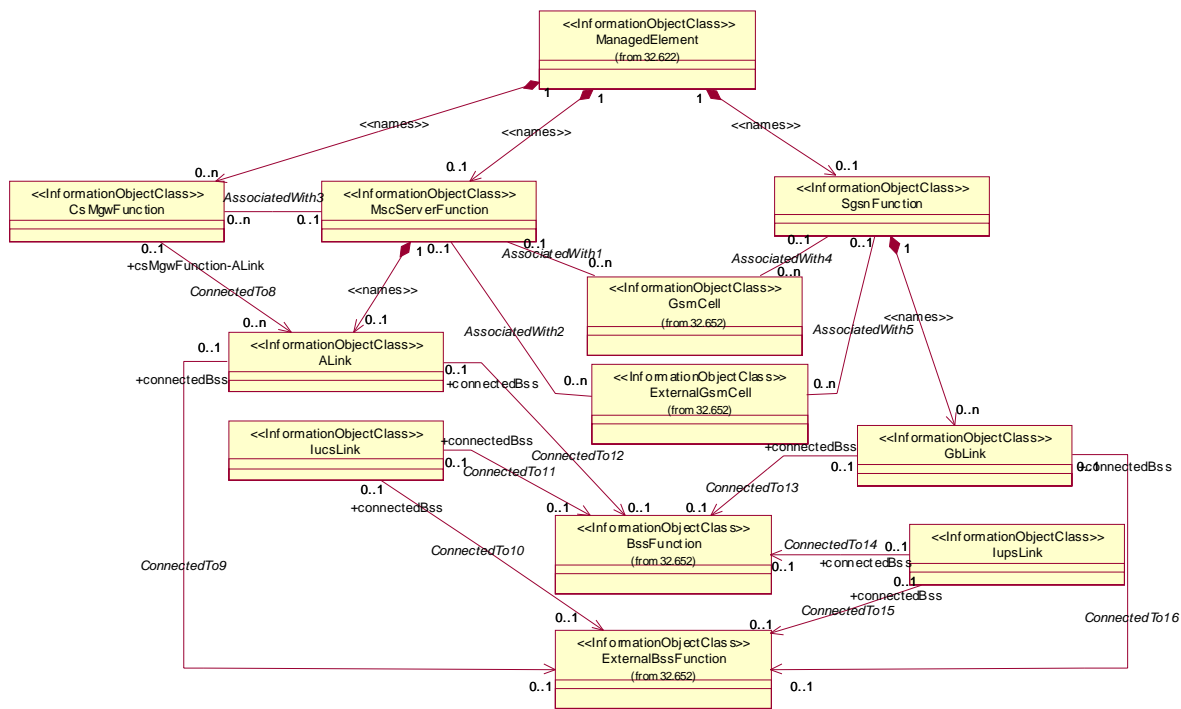


Figure 6.2.1.4: CN UTRAN NRM Containment/Naming and Association

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

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

~~NOTE 3: IMS Entities (containing combinations of functions) like MGW, CSCF and MRF are not modelled. Instead, functionally specific entities like CS-MGW, IMS-MGW, P-CSCF, S-CSCF, I-CSCF, MRFC and MRFP have been modelled.~~



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

NOTE 2: The association between MscServerFunction, MscServer and SgsnFunction, GsmGwFunction is optional and is only mandatory when they belong to different ManagedElements.

NOTE 2: The association between MscServerFunction and GsmCell, and SgsnFunction and GsmCell is optional. It may be valid if both the MscServerFunction and GsmCell, or SgsnFunction and GsmCell are managed by the same management node.

Figure 6.2.1.5: CN GERAN NRM Containment/Naming and Association

Each ~~IOCManaged 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 ~~IOCManaged Object~~ representing a cell could have a format like:

~~SubNetworkSubNetwork=Sweden, MeContext MeContext=MEC-Gbg-1, ManagedElement ManagedElement=MSC-Gbg-1, MscServerFunctionMscServerFunction=MSC-1.~~

6.2.2 Inheritance

This clause depicts the inheritance relationships that exist between IOCs.

The figures below show the inheritance hierarchy for the CN NRM.

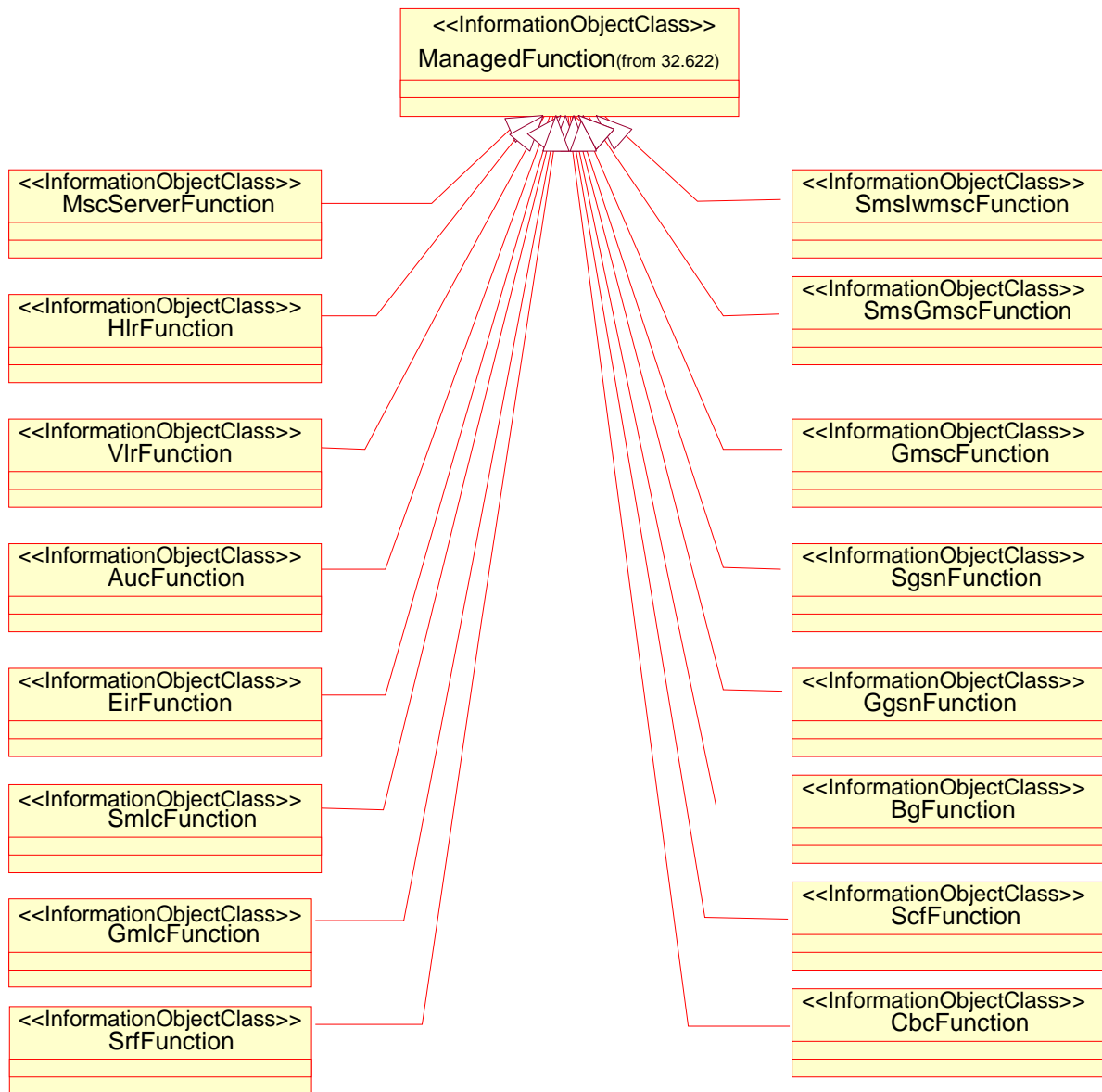


Figure 6.2.2.1: CN NRM Inheritance Hierarchy 1

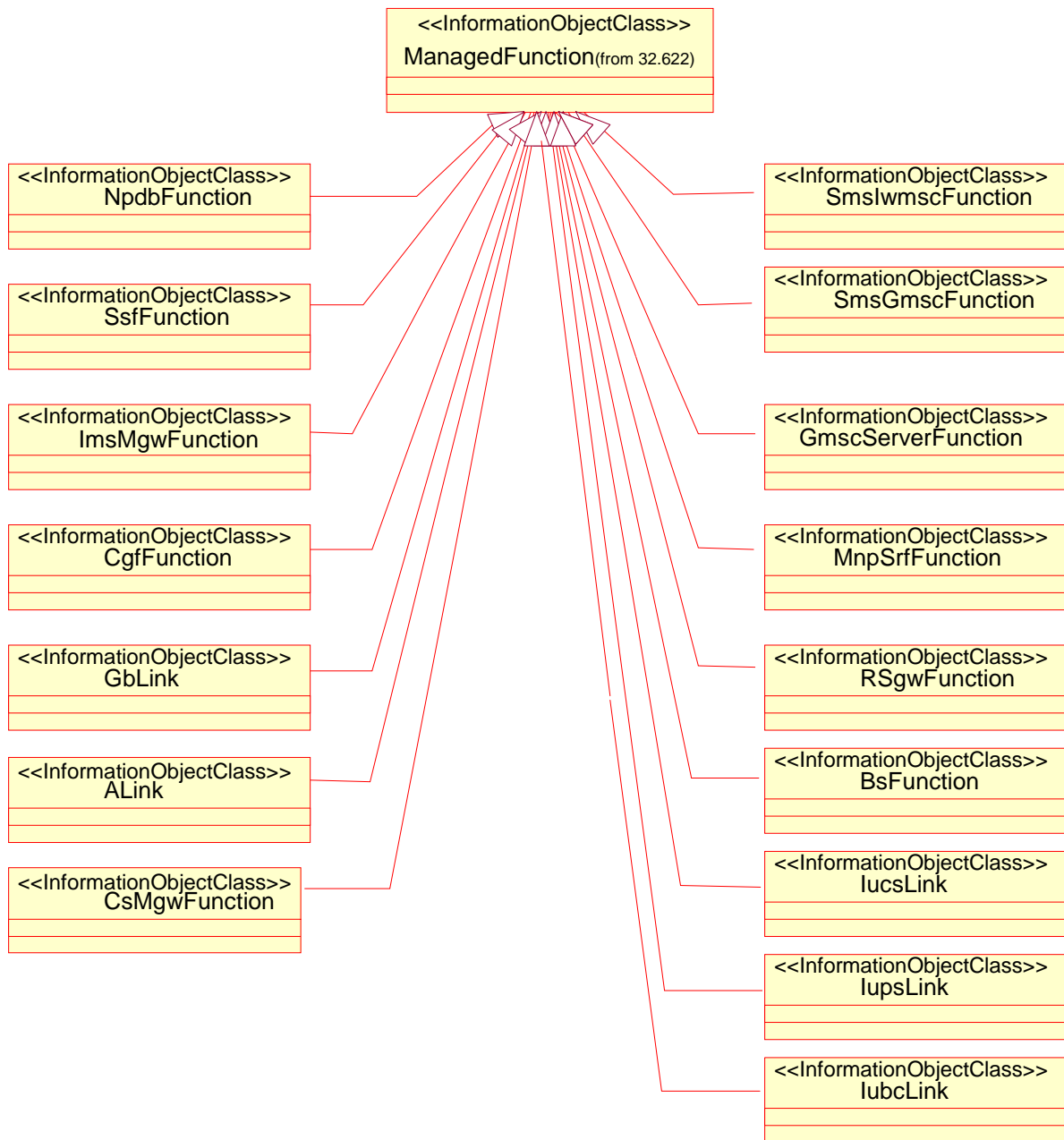


Figure 6.2.2.2: CN NRM Inheritance Hierarchy 2

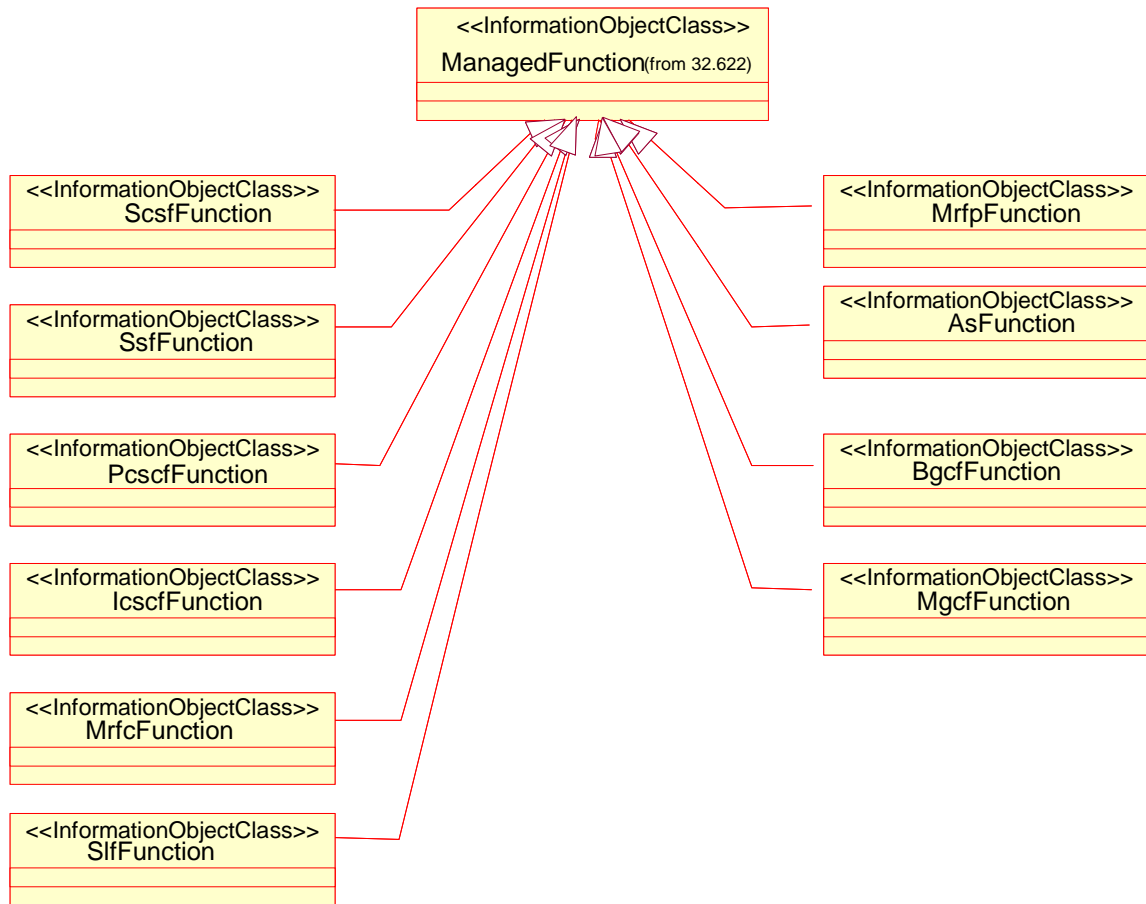


Figure 6.2.2.3: CN NRM Inheritance Hierarchy 3

6.3 [Information object class definitions](#) ~~Information Object Classes definition~~

6.3.1 [MscServerFunction](#) ~~MscServerFunction~~

6.3.1.1 Definition

This IOC represents MSCserver functionality. For more information about the MSC, see 3GPP TS 23.002 [15].

6.3.1.2 Attributes

Table 6.3.1.1: Attributes of [MscServerFunction](#) ~~MscServerFunction~~

Attribute name	Visibility	Support Qualifier	Read Qualifier	Write Qualifier
mscServerFunctionId mscServerFunctionId	+	M	M	-
userLabel userLabel	+	M	M	M
mccList mccList	+	M	M	M
mncList mncList	+	M	M	M
lacList lacList	+	M	M	M
sacList sacList	+	M	M	M
gcaList gcaList	+	O	M	M
mscId mscId	+	M	M	M
mscServerFunction-GsmCell mscServerFunction-GsmCell	+	M	M	-
mscServerFunction-ExternalGsmCell mscServerFunction-ExternalGsmCell	+	M	M	-
mscServerFunction-CsMgwFunction mscServerFunction-CsMgwFunction	+	M	M	-

6.3.1.63 [Notifications](#)

Table 6.3.1.2: Notifications of [MscServerFunction](#) ~~MscServerFunction~~

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

6.3.2 HlrFunctionHlrFunction

6.3.2.1 Definition

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

6.3.2.2 Attributes

Table 6.3.2.1: Attributes of HlrFunctionHlrFunction

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

6.3.2.63 Notifications

Table 6.3.2.2: Notifications of HlrFunctionHlrFunction

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

6.3.3 VlrFunctionVlrFunction

6.3.3.1 Definition

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

6.3.3.2 Attributes

Table 6.3.3.1: Attributes of vlrFunctionVlrFunction

Attribute name	Visibility	Support Qualifier	Read Qualifier	Write Qualifier
<u>vlrFunctionId</u> vlrFunctionId	+	M	M	-
<u>userLabel</u> userLabel	+	M	M	M

6.3.3.63 Notifications

Table 6.3.3.2: Notifications of VlrFunctionVlrFunction

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

6.3.4 AucFunctionAucFunction

6.3.4.1 Definition

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

6.3.4.2 Attributes

Table 6.3.4.1: Attributes of AucFunctionAucFunction

Attribute name	Visibility	Support Qualifier	Read Qualifier	Write Qualifier
<u>aucFunctionId</u> aucFunctionId	+	M	M	-
<u>userLabel</u> userLabel	+	M	M	M

6.3.4.63 Notifications

Table 6.3.4.2: Notifications of AucFunctionAucFunction

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

6.3.5 [EirFunction](#) **EirFunction**

6.3.5.1 Definition

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

6.3.5.2 Attributes

Table 6.3.5.1: Attributes of [EirFunction](#) **EirFunction**

Attribute name	Visibility	Support Qualifier	Read Qualifier	Write Qualifier
eirFunctionId eirFunctionId	+	M	M	-
userLabel userLabel	+	M	M	M

6.3.5.63 [Notifications](#)

Table 6.3.5.2: Notifications of [EirFunction](#) **EirFunction**

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

6.3.6 [SmsIwmscFunction](#) **SmsIwmscFunction**

6.3.6.1 Definition

This IOC represents SMS-IWMSM functionality. For more information about the SMS-IWMSM, see 3GPP TS 23.002 [15].

6.3.6.2 Attributes

Table 6.3.6.1: Attributes of [SmsIwmscFunction](#) **SmsIwmscFunction**

Attribute name	Visibility	Support Qualifier	Read Qualifier	Write Qualifier
smsIwmscFunctionId SmsIwmscFunctionId	+	M	M	-
userLabel userLabel	+	M	M	M

6.3.6.63 Notifications

Table 6.3.6.2: Notifications of [SmsIwmscFunction](#)**SmsIwmscFunction**

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

6.3.7 [SmsGmscFunction](#)**SmsGmscFunction**

6.3.7.1 Definition

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

6.3.7.2 Attributes

Table 6.3.7.1: Attributes of [SmsGmscFunction](#)**SmsGmscFunction**

Attribute name	Visibility	Support Qualifier	Read Qualifier	Write Qualifier
smsGmscFunctionId SmsGmscFunctionId	+	M	M	-
userLabel userLabel	+	M	M	M

6.3.7.63 Notifications

Table 6.3.7.2: Notifications of [SmsGsmcFunction](#)**SmsGsmcFunction**

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

6.3.8 GsmcFunction**GsmcFunction**

6.3.8.1 Definition

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

6.3.8.2 Attributes

Table 6.3.8.1: Attributes of [GsmcFunction](#)**GsmcFunction**

Attribute name	Visibility	Support Qualifier	Read Qualifier	Write Qualifier
gsmcFunctionId gsmcFunctionId	+	M	M	-
userLabel userLabel	+	M	M	M

6.3.8.63 Notifications

Table 6.3.8.2: Notifications of [GsmcFunction](#)**GsmcFunction**

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

6.3.9 [SgsnFunction](#)**SgsnFunction**

6.3.9.1 Definitions

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

6.3.9.2 Attributes

Table 6.3.9.1: Attributes of [SgsnFunction](#)SgsnFunction****

Attribute name	Visibility	Support Qualifier	Read Qualifier	Write Qualifier
sgsnFunctionId sgsnFunctionId	+	M	M	-
userLabel userLabel	+	M	M	M
mccList mccList	+	M	M	M
mncList mncList	+	M	M	M
lacList lacList	+	M	M	M
racList racList	+	M	M	M
sacList sacList	+	M	M	M
sgsnId sgsnId	+	M	M	M
sgsnFunction-GsmCell sgsnFunction-GsmCell	+	M	M	-
sgsnFunction-ExternalGsmCell sgsnFunction-ExternalGsmCell	+	M	M	-
proceduralStatus proceduralStatus (Note)	%	O	-	-

NOTE This [proceduralStatus](#) ~~procedureStatus~~ is not settable or readable via any Interface IRP except conveyed by [proceduralStatus](#) ~~notifyStateChange~~ notifications.

6.3.9.3 Notifications

Table 6.3.9.2: Notifications of [SgsnFunction](#)SgsnFunction****

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

6.3.10 [GgsnFunction](#)**GgsnFunction**

6.3.10.1 Definitions

This IOC 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 6.3.10.1: Attributes of [GgsnFunction](#) **GgsnFunction**

Attribute name	Visibility	Support Qualifier	Read Qualifier	Write Qualifier
ggsnFunctionId ggsnFunctionId	+	M	M	-
userLabel userLabel	+	M	M	M
proceduralStatus proceduralStatus (Note)	%	O	-	-
NOTE: This proceduralStatus proceduralStatus is not settable or readable via any Interface IRP except conveyed by notifyStateChange notifyStateChange notifications.				

6.3.10.63 Notifications

Table 6.3.10.2: Notifications of [GgsnFunction](#) **GgsnFunction**

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

6.3.11 [BgFunction](#) **BgFunction**

6.3.11.1 Definitions

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

6.3.11.2 Attributes

Table 6.3.11.1: Attributes of [BgFunction](#) **BgFunction**

Attribute name	Visibility	Support Qualifier	Read Qualifier	Write Qualifier
bgFunctionId bgFunctionId	+	M	M	-
userLabel userLabel	+	M	M	M

6.3.11.63 Notifications

Table 6.3.11.2: Notifications of BgFunctionBgFunction

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

6.3.12 SmlcFunctionSmlcFunction

6.3.12.1 Definitions

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

6.3.12.2 Attributes

Table 6.3.12.1: Attributes of SmlcFunctionSmlcFunction

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

6.3.12.63 Notifications

Table 6.3.12.2: Notifications of SmlcFunctionSmlcFunction

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

6.3.13 [GmlcFunction](#)GmlcFunction

6.3.13.1 Definitions

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

6.3.13.2 Attributes

Table 6.3.13.1: Attributes of [GmlcFunction](#)GmlcFunction

Attribute name	Visibility	Support Qualifier	Read Qualifier	Write Qualifier
gmlcFunctionId gmlcFunctionId	+	M	M	-
userLabel userLabel	+	M	M	M

6.3.13.63 [Notifications](#)

Table 6.3.13.2: Notifications of [GmlcFunction](#)GmlcFunction

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

6.3.14 [ScfFunction](#)ScfFunction

6.3.14.1 Definitions

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

6.3.14.2 Attributes

Table 6.3.14.1: Attributes of [ScfFunction](#)ScfFunction

Attribute name	Visibility	Support Qualifier	Read Qualifier	Write Qualifier
scfFunctionId scfFunctionId	+	M	M	-
userLabel userLabel	+	M	M	M

6.3.14.63 Notifications

Table 6.3.14.2: Notifications of ScfFunctionScfFunction

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

6.3.15 SrfFunctionSrfFunction

6.3.15.1 Definitions

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

6.3.15.2 Attributes

Table 6.3.15.1: Attributes of SrfFunctionSrfFunction

Attribute name	Visibility	Support Qualifier	Read Qualifier	Write Qualifier
<u>srfFunctionId</u> srfFunctionId	+	M	M	-
<u>userLabel</u> userLabel	+	M	M	M

6.3.15.63 Notifications

Table 6.3.15.2: Notifications of SrfFunctionSrfFunction

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

6.3.16 [CbcFunction](#) **CbcFunction**

6.3.16.1 Definitions

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

6.3.16.2 Attributes

Table 6.3.16.1: Attributes of [CbcFunction](#) **CbcFunction**

Attribute name	Visibility	Support Qualifier	Read Qualifier	Write Qualifier
cbcFunctionId cbcFunctionId	+	M	M	-
userLabel userLabel	+	M	M	M

6.3.16.63 [Notifications](#)

Table 6.3.16.2: Notifications of [CbcFunction](#) **CbcFunction**

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

6.3.17 [CgfFunction](#) **CgfFunction**

6.3.17.1 Definitions

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

6.3.17.2 Attributes

Table 6.3.17.1: Attributes of [CgfFunction](#) **CgfFunction**

Attribute name	Visibility	Support Qualifier	Read Qualifier	Write Qualifier
cgfFunctionId cgfFunctionId	+	M	M	-
userLabel userLabel	+	M	M	M

6.3.17.63 Notifications

Table 6.3.17.2: Notifications of [CgFunction](#)**CgFunction**

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

6.3.18 [ImsMgwFunction](#)**ImsMgwFunction**

6.3.18.1 Definitions

This IOC represents IMS-MGW functionality. For more information about IMS-MGW, see 3GPP TS 23.002 [15].

6.3.18.2 Attributes

Table 6.3.18.1: Attributes of [ImsMgwFunction](#)**ImsMgwFunction**

Attribute name	Visibility	Support Qualifier	Read Qualifier	Write Qualifier
imsMgwFunctionId imsMgwFunctionId	+	M	M	-
userLabel userLabel	+	M	M	M

6.3.18.63 Notifications

Table 6.3.18.2: Notifications of [ImsMgwFunction](#)**ImsMgwFunction**

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

6.3.19 [GmscServerFunction](#)**GmscServerFunction**

6.3.19.1 Definitions

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

6.3.19.2 Attributes

Table 6.3.19.1: Attributes of [GmscServerFunction](#)GmscServerFunction****

Attribute name	Visibility	Support Qualifier	Read Qualifier	Write Qualifier
gmscServerFunctionId gmscServerFunctionId	+	M	M	-
userLabel userLabel	+	M	M	M

6.3.19.63 [Notifications](#)

Table 6.3.19.2: Notifications of [GmscServerFunction](#)GmscServerFunction****

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

6.3.20 [IwfFunction](#)**IwfFunction**

6.3.20.1 Attributes

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

6.3.20.2 Attributes

Table 6.3.20.1: Attributes of [IwfFunction](#)IwfFunction****

Attribute name	Visibility	Support Qualifier	Read Qualifier	Write Qualifier
iwfFunctionId iwfFunctionId	+	M	M	-
userLabel userLabel	+	M	M	M

6.3.20.63 Notifications

Table 6.3.20.2: Notifications of IwfFunction~~IwfFunction~~

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

6.3.21 MnpSrfFunction~~MnpSrfFunction~~

6.3.21.1 Definitions

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

6.3.21.2 Attributes

Table 6.3.21.1: Attributes of MnpSrfFunction~~MnpSrfFunction~~

Attribute name	Visibility	Support Qualifier	Read Qualifier	Write Qualifier
<u>mnpSrfFunctionId</u> mnpSrfFunctionId	+	M	M	-
<u>userLabel</u> userLabel	+	M	M	M

6.3.21.63 Notifications

Table 6.3.21.2: Notifications of MnpSrfFunction~~MnpSrfFunction~~

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

6.3.22 [NpdbFunction](#)**NpdbFunction**

6.3.22.1 Definitions

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

6.3.22.2 Attributes

Table 6.3.22.1: Attributes of [NpdbFunction](#)NpdbFunction****

Attribute name	Visibility	Support Qualifier	Read Qualifier	Write Qualifier
npdbFunctionId npdbFunctionId	+	M	M	-
userLabel userLabel	+	M	M	M

6.3.22.63 [Notifications](#)

Table 6.3.22.2: Notifications of [NpdbFunction](#)NpdbFunction****

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

6.3.23 [SgwFunction](#)**SgwFunction**

6.3.23.1 Definitions

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

6.3.23.2 Attributes

Table 6.3.23.1: Attributes of [SgwFunction](#)SgwFunction****

Attribute name	Visibility	Support Qualifier	Read Qualifier	Write Qualifier
sgwFunctionId sgwFunctionId	+	M	M	-
userLabel userLabel	+	M	M	M

6.3.23.63 Notifications

Table 6.3.23.2: Notifications of SgwFunctionSgwFunction

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

6.3.24 SsfFunctionSsfFunction

6.3.24.1 Definitions

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

6.3.24.2 Attributes

Table 6.3.24.1: Attributes of SsfFunctionSsfFunction

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

6.3.24.63 Notifications

Table 6.3.24.2: Notifications of SsfFunctionSsfFunction

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

6.3.25 [BsFunction](#)**BsFunction**

6.3.25.1 Definitions

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

6.3.25.2 Attributes

Table 6.3.25.1: Attributes of [BsFunction](#)BsFunction****

Attribute name	Visibility	Support Qualifier	Read Qualifier	Write Qualifier
bsFunctionId bsFunctionId	+	M	M	-
userLabel userLabel	+	M	M	M

6.3.25.63 [Notifications](#)

Table 6.3.25.2: Notifications of [BsFunction](#)BsFunction****

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

6.3.26 [IucsLink](#)**IucsLink**

6.3.26.1 Definitions

This IOC 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].

6.3.26.2 Attributes

Table 6.3.26.1: Attributes of [IucsLink](#)IucsLink****

Attribute name	Visibility	Support Qualifier	Read Qualifier	Write Qualifier
iucsLinkId iucsLinkId	+	M	M	-
userLabel userLabel	+	M	M	M
connectedRnc connectedRnc	+	M O	M	-
connectedBss connectedBss	+	M O	M	-

6.3.27.3 Attribute constraints

The optional attribute `connectedRnc` shall be supported when the `Iucs` interface is between the `MSCServer` node and an `RNC` node.

The optional attribute `connectedBss` ~~`connectedBSS`~~ shall be supported when the `Iucs` interface is between the `MSCServer` node and a `BSC` node.

The attributes `connectedRnc` and `connectedBss` ~~`connectedBSS`~~ are mutually exclusive.

6.3.26.64 Notifications

Table 6.3.26.2: Notifications of `IucsLink`~~`IucsLink`~~

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

6.3.27 IupsLink~~`IupsLink`~~

6.3.27.1 Definitions

This IOC 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].

~~An instance of an `IupsLink` can only be connected to an `RNC` or a `BSS`.~~

6.3.27.2 Attributes

Table 6.3.27.1: Attributes of `IupsLink`~~`IupsLink`~~

Attribute name	Visibility	Support Qualifier	Read Qualifier	Write Qualifier
<code>iuplinkId</code> <code>iuplinkId</code>	+	M	M	-
<code>userLabel</code> <code>userLabel</code>	+	M	M	M
<code>connectedRnc</code> <code>connectedRnc</code>	+	O	M	-
<code>connectedBss</code> <code>connectedBss</code>	+	O	M	-
NOTE:— An instance of an <code>IupsLink</code> can only be connected to an <code>RNC</code> or a <code>BSS</code>.				

6.3.27.3 Attribute constraints

The optional attribute `connectedRnc` shall be supported when the `Iups` interface is between the `SGSN` node and an `RNC` node.

The optional attribute `connectedBss` ~~`connectedBSS`~~ shall be supported when the `Iups` interface is between the `SGSN` node and a `BSC` node.

The attributes `connectedRnc` and `connectedBss` ~~`connectedBSS`~~ are mutually exclusive.

6.3.27.64 Notifications

Table 6.3.27.2: Notifications of `IupsLink`~~`lupsLink`~~

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

6.3.28 IubcLink

6.3.28.1 Definitions

This IOC 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].

6.3.28.2 Attributes

Table 6.3.28.1: Attributes of `IubcLink`~~`lucbLink`~~

Attribute name	Visibility	Support Qualifier	Read Qualifier	Write Qualifier
<code>iubLinkId</code> <code>iubLinkId</code>	+	M	M	-
<code>userLabel</code> <code>userLabel</code>	+	M	M	M
<code>connectedRnc</code> <code>connectedRnc</code>	+	M	M	-

6.3.28.63 Notifications

Table 6.3.28.2: Notifications of **lubeLink**

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

6.3.29 ALink

6.3.29.1 Definitions

This IOC represents the A interface link connecting a MSC to the GERAN. For more information about the GERAN, see 3GPP TS 23.002 [15].

6.3.29.2 Attributes

Table 6.3.29.1: Attributes of **ALink**

Attribute name	Visibility	Support Qualifier	Read Qualifier	Write Qualifier
aLinkId aLinkId	+	M	M	-
userLabel userLabel	+	M	M	M
connectedBss connectedBss	+	M	M	-

6.3.29.63 Notifications

Table 6.3.29.2: Notifications of ~~ALink~~ALink

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

6.3.30 GbLink~~GbLink~~

6.3.30.1 Definitions

This IOC represents the Gb interface link connecting a SGSN to the GERAN. For more information about the GERAN, see 3GPP TS 23.002 [15].

6.3.30.2 Attributes

Table 6.3.30.1: Attributes of ~~GbLink~~GbLink

Attribute name	Visibility	Support Qualifier	Read Qualifier	Write Qualifier
gbLinkId gbLinkId	+	M	M	-
userLabel userLabel	+	M	M	M
connectedBss connectedBss	+	M	M	-

6.3.30.63 Notifications

Table 6.3.30.2: Notifications of GbLinkGbLink

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

6.3.31 CsMgwFunctionCsMgwFunction

6.3.31.1 Definitions

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

6.3.31.2 Attributes

Table 6.3.31.1: Attributes of CsMgwFunctionCsMgwFunction

Attribute name	Visibility	Support Qualifier	Read Qualifier	Write Qualifier
<u>csMgwFunctionId</u> csMgwFunctionId	+	M	M	-
<u>userLabel</u> userLabel	+	M	M	M
<u>csMgwFunction-MscServerFunction</u> csMgwFunction-MscServerFunction	+	M	M	-
<u>csMgwFunction-IucsLink</u> csMgwFunction-IucsLink	+	M	M	-
<u>csMgwFunction-ALink</u> csMgwFunction-ALink	+	M	M	-

6.3.31.63 Notifications

Table 6.3.31.2: Notifications of CsMgwFunctionCsMgwFunction

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

6.3.32 ScscfFunctionScsefFunction

6.3.32.1 Definitions

This IOC represents S-CSCF functionality. For more information about the S-CSCF, see 3GPP TS 23.002 [15].

6.3.32.2 Attributes

Table 6.3.32.1: Attributes of ScscfFunction

Attribute name	Visibility	Support Qualifier	Read Qualifier	Write Qualifier
scscfFunctionId	+	M	M	-
userLabel	+	M	M	M

6.3.32.3 Notifications

This subclause presents the list of notifications that can be emitted across the Itf-N, with "object class" and "object instance" parameters of the notification header of these notifications identifying an instance of the IOC

ScscfFunctionScsefFunction.

Table 6.3.32.2: Notifications of ScscfFunction

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

6.3.33 [PcscfFunction](#)~~PcscfFunction~~

6.3.33.1 Definitions

This IOC represents P-CSCF functionality. For more information about the P-CSCF, see 3GPP TS 23.002 [15].

6.3.33.2 Attributes

Table 6.3.33.1: Attributes of PcscfFunction

Attribute name	Visibility	Support Qualifier	Read Qualifier	Write Qualifier
pcscfFunctionId	+	M	M	-
userLabel	+	M	M	M

6.3.33.3 Notifications

This subclause presents the list of notifications that can be emitted across the Itf-N, with "object class" and "object instance" parameters of the notification header of these notifications identifying an instance of the IOC PcscfFunction.

Table 6.3.33.2: Notifications of PcscfFunction

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

6.3.34 [IcscfFunction](#)~~IcscfFunction~~

6.3.34.1 Definitions

This IOC represents I-CSCF functionality. For more information about the I-CSCF, see 3GPP TS 23.002 [15].

6.3.34.2 Attributes

Table 6.3.34.1: Attributes of IcscfFunction

Attribute name	Visibility	Support Qualifier	Read Qualifier	Write Qualifier
icscfFunctionId	+	M	M	-
userLabel	+	M	M	M

6.3.34.3 Notifications

This subclause presents the list of notifications that can be emitted across the Itf-N, with "object class" and "object instance" parameters of the notification header of these notifications identifying an instance of the IOC IcscfFunction.

Table 6.3.34.2: Notifications of IcscfFunctionIcscfFunction

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

6.3.35 SlfFunctionSlfFunction

6.3.35.1 Definitions

This IOC represents SLF functionality. For more information about the SLF, see 3GPP TS 23.002 [15].

6.3.35.2 Attributes

Table 6.3.35.1: Attributes of slfFunction

Attribute name	Visibility	Support Qualifier	Read Qualifier	Write Qualifier
slfFunctionId	+	M	M	-
userLabel	+	M	M	M

6.3.35.3 Notifications

This subclause presents the list of notifications that can be emitted across the Itf-N, with "object class" and "object instance" parameters of the notification header of these notifications identifying an instance of the IOC SlfFunction.

Table 6.3.35.2: Notifications of slfFunction

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

6.3.36 BgcfFunctionBgcfFunction

6.3.36.1 Definitions

This IOC represents BGCF functionality. For more information about the BGCF, see 3GPP TS 23.002 [15].

6.3.36.2 Attributes

Table 6.3.36.1: Attributes of BgcfFunction

Attribute name	Visibility	Support Qualifier	Read Qualifier	Write Qualifier
bgcfFunctionId	+	M	M	-
userLabel	+	M	M	M

6.3.36.3 Notifications

This subclause presents the list of notifications that can be emitted across the Itf-N, with "object class" and "object instance" parameters of the notification header of these notifications identifying an instance of the IOC BgcfFunction.

Table 6.3.36.2: Notifications of BgcfFunction

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

6.3.37 [MrfcFunction](#)~~MrfcFunction~~

6.3.37.1 Definitions

This IOC represents MRFC functionality. For more information about the MRFC, see 3GPP TS 23.002 [15].

6.3.37.2 Attributes

Table 6.3.37.1: Attributes of MrfcFunction

Attribute name	Visibility	Support Qualifier	Read Qualifier	Write Qualifier
mrfcFunctionId	+	M	M	-
userLabel	+	M	M	M

6.3.37.3 Notifications

This subclause presents the list of notifications that can be emitted across the Itf-N, with "object class" and "object instance" parameters of the notification header of these notifications identifying an instance of the IOC MrfcFunction.

Table 6.3.37.2: Notifications of [MrfcFunction](#)~~MrfcFunction~~

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

6.3.38 [MrfpFunction](#)~~MrfpFunction~~

6.3.38.1 Definitions

This IOC represents MRFP functionality. For more information about the MRFP, see 3GPP TS 23.002 [15].

6.3.38.2 Attributes

Table 6.3.38.1: Attributes of [MrfpFunction](#)

Attribute name	Visibility	Support Qualifier	Read Qualifier	Write Qualifier
mrfpFunctionId	+	M	M	-
userLabel	+	M	M	M

6.3.38.3 Notifications

This subclause presents the list of notifications that can be emitted across the Itf-N, with "object class" and "object instance" parameters of the notification header of these notifications identifying an instance of the IOC [MrfpFunction](#).

Table 6.3.38.2: Notifications of [MrfpFunction](#)

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

6.3.39 [AsFunction](#)~~AsFunction~~

6.3.39.1 Definitions

This IOC represents AS functionality. For more information about the AS, see 3GPP TS 23.002 [15].

6.3.39.2 Attributes

Table 6.3.39.1: Attributes of AsFunction

Attribute name	Visibility	Support Qualifier	Read Qualifier	Write Qualifier
asFunctionId	+	M	M	-
userLabel	+	M	M	M

6.3.39.3 Notifications

This subclause presents the list of notifications that can be emitted across the Itf-N, with "object class" and "object instance" parameters of the notification header of these notifications identifying an instance of the IOC `AsFunction`.

Table 6.3.39.2: Notifications of AsFunction

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

6.3.41 [MgcfFunction](#)~~MgefFunction~~

6.3.41.1 Definitions

This IOC represents MGCF functionality. For more information about the MGCF, see 3GPP TS 23.002 [15].

6.3.41.2 Attributes

Table 6.3.41.1: Attributes of MgcfFunction

Attribute name	Visibility	Support Qualifier	Read Qualifier	Write Qualifier
mgcfFunctionId	+	M	M	-
userLabel	+	M	M	M

6.3.41.3 Notifications

This subclause presents the list of notifications that can be emitted across the Itf-N, with "object class" and "object instance" parameters of the notification header of these notifications identifying an instance of the IOC `MgcfFunction`.

Table 6.3.41.2: Notifications of MgcFunction

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

6.4 Information relationships definitions

6.4.1 AssociatedWith1 AssociatedWith1 (M)

6.4.1.1 Definition

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

6.4.1.2 Roles

Table 6.4.1: Roles of the relation AssociatedWith1 AssociatedWith1

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

6.4.1.3 Constraints

Name	Definition
<u>Inv_none</u> -	<u>There are no constraints identified</u> -

~~None.~~

6.4.2 AssociatedWith2 AssociatedWith2 (M)

6.4.2.1 Definition

This represents a bi-directional relation between the MscServerFunction ~~MscServerFunction~~ and ExternalGsmCell ~~ExternalGSMCell~~.

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.

6.4.2.2 Roles

Table 6.4.2: Roles of the relation AssociatedWith2AssociatedWith2

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

6.4.2.3 Constraints

Name	Definition
<u>Inv_none-</u>	There are no constraints identified-

None.

6.4.3 AssociatedWith3 AssociatedWith3 (M)

6.4.3.1 Definition

This represents a bi-directional relation between the MscServerFunction~~MscServerFunction~~ and CsMgwFunction~~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 6.4.3: Roles of the relation AssociatedWith3AssociatedWith3

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

6.4.3.3 Constraints

Name	Definition
<u>Inv_none-</u>	There are no constraints identified-

None.

6.4.4 AssociatedWith4 ~~AssociatedWith4~~ (M)

6.4.4.1 Definition

This represents a bi-directional relation between the SgsnFunction ~~SgsnFunction~~ and GsmCell ~~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 6.4.4: Roles of the relation AssociatedWith4 ~~AssociatedWith4~~

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

6.4.4.3 Constraints

Name	Definition
<u>Inv_none</u> Inv_none	<u>There are no constraints identified</u> There are no constraints identified .

None.

6.4.5 AssociatedWith5 ~~AssociatedWith5~~ (M)

6.4.5.1 Definition

This represents a bi-directional relation between the SgsnFunction ~~SgsnFunction~~ and ExternalGsmCell ~~ExternalGsmCell~~.

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.

6.4.5.2 Roles

Table 6.4.5: Roles of the relation AssociatedWith5 ~~AssociatedWith5~~

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

6.4.5.3 Constraints

Name	Definition
Inv_none-	There are no constraints identified.

~~None.~~

6.4.6 ConnectedTo1 ~~ConnectedTo1~~ (M)

6.4.6.1 Definition

This represents a uni-directional relation between the CsMgwFunction ~~CsMgwFunction~~ and IucsLink ~~IucsLink~~.

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

6.4.6.2 Roles

Table 6.4.6: Roles of the relation ConnectedTo1 ~~ConnectedTo1~~

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

6.4.6.3 Constraints

Name	Definition
Inv_none-	There are no constraints identified.

~~None.~~

6.4.7 ConnectedTo2 ~~ConnectedTo2~~ (M)

6.4.7.1 Definition

This represents a uni-directional relation between the IucsLink ~~IucsLink~~ and ExternalRncFunction ~~ExternalRncFunction~~.

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

6.4.7.2 Roles

Table 6.4.7: Roles of the relation ConnectedTo2 ~~ConnectedTo2~~

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

6.4.7.3 Constraints

Name	Definition
=	=

~~None.~~

6.4.8 [ConnectedTo3](#) ~~ConnectedTo3~~-(M)

6.4.8.1 Definition

This represents a uni-directional relation between the [IucsLink](#) ~~IucsLink~~ and [RncFunction](#) ~~RncFunction~~.

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

6.4.8.2 Roles

Table 6.4.8: Roles of the relation [ConnectedTo3](#) ~~ConnectedTo3~~

Name	Definition
connectedRnc connectedRnc	This role (when present) represents IOC IucsLink IucsLink capability to identify one connected RncFunction Rnc . When present, it shall contain one RncFunction RNC DN.

6.4.8.3 Constraints

Name	Definition
Inv_none	There are no constraints identified.

~~None.~~

6.4.9 [ConnectedTo4](#) ~~ConnectedTo4~~-(M)

6.4.9.1 Definition

This represents a uni-directional relation between the [IupsLink](#) ~~IupsLink~~ and [RncFunction](#) ~~RncFunction~~.

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

6.4.9.2 Roles

Table 6.4.9: Roles of the relation [ConnectedTo4](#) ~~ConnectedTo4~~

Name	Definition
connectedRnc connectedRnc	This role (when present) represents IOC IupsLink IupsLink capability to identify one connected RncFunction Rnc . When present, it shall contain one RncFunction RNC DN.

6.4.9.3 Constraints

Name	Definition
Inv_none	There are no constraints identified.

~~None.~~

6.4.10 [ConnectedTo5](#) ~~ConnectedTo5~~-(M)

6.4.10.1 Definition

This represents a uni-directional relation between the [IupsLink](#) ~~IupsLink~~ and [ExternalRncFunction](#) ~~ExternalRncFunction~~.

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

6.4.10.2 Roles

Table 6.4.10: Roles of the relation ConnectedTo5 ~~ConnectedTo5~~

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

6.4.10.3 Constraints

Name	Definition
=	=

~~None.~~

6.4.11 ConnectedTo6 ~~ConnectedTo6~~-(M)

6.4.11.1 Definition

This represents a uni-directional relation between the IubcLink ~~IubcLink~~ and RncFunction ~~RncFunction~~.

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

6.4.11.2 Roles

Table 6.4.11: Roles of the relation ConnectedTo6 ~~ConnectedTo6~~

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

6.4.11.3 Constraints

Name	Definition
Inv_none-	There are no constraints identified.

~~None.~~

6.4.12 ConnectedTo7 ~~ConnectedTo7~~-(M)

6.4.12.1 Definition

This represents a uni-directional relation between the IubcLink ~~IubcLink~~ and ExternalRncFunction ~~ExternalRncFunction~~.

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

6.4.12.2 Roles

Table 6.4.12: Roles of the relation ConnectedTo7 ~~ConnectedTo7~~

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

6.4.12.3 Constraints

Name	Definition
=	=

~~None.~~

6.4.13 [ConnectedTo8](#) ~~ConnectedTo8~~ (M)

6.4.13.1 Definition

This represents a uni-directional relation between the [CsMgwFunction](#) ~~CsMgwFunction~~ and [ALink](#) ~~ALink~~.

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

6.4.13.2 Roles

Table 6.4.13: Roles of the relation [ConnectedTo8](#) ~~ConnectedTo8~~

Name	Definition
csMgwFunction-ALink csMgwFunction-ALink	This role (when present) represents CsMgwFunction csMgwFunction capability to identify the set of connected ALinks ALinks . When the role is present, the csMgwFunction-ALink csMgwFunction-ALink shall carry the set of -ALink ALink 's-DN(s).

6.4.13.3 Constraints

Name	Definition
Inv_none-	There are no constraints identified-

~~None.~~

6.4.14 [ConnectedTo9](#) ~~ConnectedTo9~~ (M)

6.4.14.1 Definition

This represents a uni-directional relation between the [ALink](#) ~~ALink~~ and [ExternalBssFunction](#) ~~ExternalBssFunction~~.

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

6.4.14.2 Roles

Table 6.4.14: Roles of the relation [ConnectedTo9](#) ~~ConnectedTo9~~

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

6.4.14.3 Constraints

Name	Definition
Inv_none-	There are no constraints identified-

~~None.~~

6.4.15 ConnectedTo10 ~~ConnectedTo10~~-(M)

6.4.15.1 Definition

This represents a uni-directional relation between the Iucslink ~~Iucslink~~ and ExternalBssFunction ~~ExternalBssFunction~~.

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

6.4.15.2 Roles

Table 6.4.15: Roles of the relation ConnectedTo10 ~~ConnectedTo10~~

Name	Definition
<u>connectedBss</u> connectedBss	This role (when present) represents IOC <u>Iucslink</u> IucsLink capability to identify one connected <u>ExternalBssFunction</u> Bss . When present, it shall contain one <u>ExternalBssFunction</u> Bss -DN.

6.4.15.3 Constraints

Name	Definition
Inv_none-	There are no constraints identified.

~~None.~~

6.4.16 ConnectedTo11 ~~ConnectedTo11~~-(M)

6.4.16.1 Definition

This represents a uni-directional relation between the Iucslink ~~Iucslink~~ and BssFunction ~~BssFunction~~.

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

6.4.16.2 Roles

Table 6.4.16: Roles of the relation ConnectedTo11 ~~ConnectedTo11~~

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

6.4.16.3 Constraints

Name	Definition
Inv_none-	There are no constraints identified.

~~None.~~

6.4.17 ConnectedTo12 ~~ConnectedTo12~~-(M)

6.4.17.1 Definition

This represents a uni-directional relation between the ALink ~~Alink~~ and BssFunction ~~BssFunction~~.

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

6.4.17.2 Roles

Table 6.4.17: Roles of the relation [ConnectedTo12](#)~~ConnectedTo12~~

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

6.4.17.3 Constraints

Name	Definition
Inv_none	There are no constraints identified.

~~None.~~

6.4.18 [ConnectedTo13](#) ~~ConnectedTo13~~-(M)

6.4.18.1 Definition

This represents a uni-directional relation between the ~~[GbLink](#)~~ ~~Gblink~~ and ~~[BssFunction](#)~~~~BssFunction~~.

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

6.4.18.2 Roles

Table 6.4.18: Roles of the relation [ConnectedTo13](#)~~ConnectedTo13~~

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

6.4.18.3 Constraints

Name	Definition
Inv_none	There are no constraints identified.

~~None.~~

6.4.19 [ConnectedTo14](#) ~~ConnectedTo14~~-(M)

6.4.19.1 Definition

This represents a uni-directional relation between the ~~[IupsLink](#)~~ ~~Iupslink~~ and ~~[BssFunction](#)~~~~BssFunction~~.

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

6.4.19.2 Roles

Table 6.4.19: Roles of the relation [ConnectedTo14](#)~~ConnectedTo14~~

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

6.4.19.3 Constraints

Name	Definition
Inv_none-	There are no constraints identified.

~~None.~~

6.4.20 [ConnectedTo15](#) ~~ConnectedTo15~~-(M)

6.4.20.1 Definition

This represents a uni-directional relation between the [IupsLink](#) ~~Iuplink~~ and [ExternalBssFunction](#) ~~ExternalBssFunction~~.

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

6.4.20.2 Roles

Table 6.4.20: Roles of the relation [ConnectedTo15](#) ~~ConnectedTo15~~

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

6.4.20.3 Constraints

Name	Definition
Inv_none-	There are no constraints identified.

~~None.~~

6.4.21 [ConnectedTo16](#) ~~ConnectedTo16~~-(M)

6.4.21.1 Definition

This represents a uni-directional relation between the [GbLink](#) ~~Gblink~~ and [ExternalBssFunction](#) ~~ExternalBssFunction~~.

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

6.4.21.2 Roles

Table 6.4.21: Roles of the relation [ConnectedTo16](#) ~~ConnectedTo16~~

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

6.4.21.3 Constraints

Name	Definition
Inv_none-	There are no constraints identified.

~~None.~~

6.5 Information attributes and definitions

6.5.1 Definition and legal values

Table 6.5.1 defines the attributes that are present in several information object classes of the present document.

Table 6.5.1: Attributes

Attribute Name	Definition	Legal Values
aLinkId	An attribute whose 'name+value' can be used as an RDN when naming an instance of the IOObject-class . This RDN uniquely identifies the object instance within the scope of its containing (parent) object instance.	
asFunctionId	An attribute whose 'name+value' can be used as an RDN when naming an instance of the IOObject-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 IOObject-class . This RDN uniquely identifies the object instance within the scope of its containing (parent) object instance.	
bgcfFunctionId	An attribute whose 'name+value' can be used as an RDN when naming an instance of the IOObject-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 RDN when naming an instance of the IOObject-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 IOObject-class . This RDN uniquely identifies the object instance within the scope of its containing (parent) object instance.	
cbcFunctionId	An attribute whose 'name+value' can be used as an RDN when naming an instance of the IOObject-class . This RDN uniquely identifies the object instance within the scope of its containing (parent) object instance.	
cgfFunctionId	An attribute whose 'name+value' can be used as an RDN when naming an instance of the IOObject-class . This RDN uniquely identifies the object instance within the scope of its containing (parent) object instance.	
csMgwFunctionId esmgwFunctionId	An attribute whose 'name+value' can be used as an RDN when naming an instance of the IOObject-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 IOObject-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 IOObject-class . This RDN uniquely identifies the object instance within the scope of its containing (parent) object instance.	
gcaList	List of Group Call Area (Ref. 3GPP TS 23.003 [19]).	
ggsnFunctionId	An attribute whose 'name+value' can be used as an RDN when naming an instance of the IOObject-class . This RDN uniquely identifies the object instance within the scope of its containing (parent) object instance.	
gmlcFunctionId	An attribute whose 'name+value' can be used as an RDN when naming an instance of the IOObject-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 RDN when naming an instance of the IOObject-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 naming an instance of the IOObject-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 IOObject-class . This RDN uniquely identifies the object instance within the scope of its containing (parent) object instance.	

hlfFunctionId	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.	
hlfFunctionId	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.	
hlfFunctionId	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.	
icscfFunctionId	An attribute whose 'name+value' can be used as an RDN when naming an instance of the IOObject-class . This RDN uniquely identifies the object instance within the scope of its containing (parent) object instance	
imsMgwFunctionId	An attribute whose 'name+value' can be used as an RDN when naming an instance of the IOC. This RDN uniquely identifies the object instance within the scope of its containing (parent) object instance.	
iubLinkId	An attribute whose 'name+value' can be used as an RDN when naming an instance of the IOObject-class . This RDN uniquely identifies the object instance within the scope of its containing (parent) object instance.	
iucslinkId	An attribute whose 'name+value' can be used as an RDN when naming an instance of the IOObject-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 IOObject-class . This RDN uniquely identifies the object instance within the scope of its containing (parent) object instance.	
iwfFunctionId	An attribute whose 'name+value' can be used as an RDN when naming an instance of the IOC. This RDN uniquely identifies the object instance within the scope of its containing (parent) object instance.	
lacList	List of Location Area Codes covered by MSC (Ref. 3GPP TS 23.003 [19]).	
mccList	List of Mobile Country Codes, MCC (part of the PLMN Id, Ref. 3GPP TS 23.003 [19]).	
mgcfFunctionId	An attribute whose 'name+value' can be used as an RDN when naming an instance of the IOObject-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 IOObject-class. This RDN uniquely identifies the object instance within the scope of its containing (parent) object instance.	
mncList	List of Mobile Network Codes, MNC (part of the PLMN Id, Ref. 3GPP TS 23.003 [19]).	
mnpSrfFunctionId	An attribute whose 'name+value' can be used as an RDN when naming an instance of the IOObject-class . This RDN uniquely identifies the object instance within the scope of its containing (parent) object instance.	
mrfcFunctionId	An attribute whose 'name+value' can be used as an RDN when naming an instance of the IOObject-class . This RDN uniquely identifies the object instance within the scope of its containing (parent) object instance	
mrfpFunctionId	An attribute whose 'name+value' can be used as an RDN when naming an instance of the IOObject-class . This RDN uniquely identifies the object instance within the scope of its containing (parent) object instance	
mscId	Unique MSC ID (Ref. 3GPP TS 23.002 [15]).	
mscServerFunctionId	An attribute whose 'name+value' can be used as an RDN when naming an instance of the IOObject-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 IOObject-class . This RDN uniquely identifies the object instance within the scope of its containing (parent) object instance.	
pcscfFunctionId	An attribute whose 'name+value' can be used as an RDN when naming an instance of the IOObject-class . This RDN uniquely identifies the object instance within the scope of its containing (parent) object instance	
proceduralStatus	<p>It indicates the procedural status of the object instance. This attribute provides a subset of capabilities of procedural status defined in [20]. There are two cases resulting in a status change to be reported:</p> <ul style="list-style-type: none"> • Case 1: A notification may be generated to indicate that restart procedure is about to begin or has just begun but has not finished. - the value for this attribute indicates original state == "notInitialized" and new state == "initializing". • Case 2: A notification shall be generated to indicate that restart procedure has completed successfully - the value for this attribute indicates original state == "initializing" to new state == "" (empty set). 	Subset of definitions from [20]: "notInitialized", "initializing", "" (empty set)
racList	List of Routing Area Codes covered by MSC (Ref. 3GPP TS 23.003 [19]).	
sacList	List of Service Area Codes covered by MSC (Ref. 3GPP TS 23.003 [19]).	
scfFunctionId	An attribute whose 'name+value' can be used as an RDN when naming an instance of the IOObject-class . This RDN uniquely identifies the object instance within the scope of its containing (parent) object instance.	
scscfFunctionId	An attribute whose 'name+value' can be used as an RDN when naming an instance of the IOObject-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 IOObject-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 [15]).	
sgwFunctionId	An attribute whose 'name+value' can be used as an RDN when naming an instance of the IOObject-class . This RDN uniquely identifies the object instance within the scope of its containing (parent) object instance.	
slfFunctionId	An attribute whose 'name+value' can be used as an RDN when naming an instance of the IOObject-class . This RDN uniquely identifies the object instance within the scope of its containing (parent) object instance	
smlcFunctionId	An attribute whose 'name+value' can be used as an RDN when naming an instance of the IOObject-class . This RDN 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 IOObject-class . This RDN uniquely identifies the object instance within the scope of its containing (parent) object instance.	
smsIwmscFunctionId	An attribute whose 'name+value' can be used as an RDN when naming an instance of the IOObject-class . This RDN uniquely identifies the object instance within the scope of its containing (parent) object instance.	
srfFunctionId	An attribute whose 'name+value' can be used as an RDN when naming an instance of the IOObject-class . This RDN uniquely identifies the object instance within the scope of its containing (parent) object instance.	
ssfFunctionId	An attribute whose 'name+value' can be used as an RDN when naming an instance of the IOObject-class . This RDN uniquely identifies the object instance within the scope of its containing (parent) object instance.	

userLabel	A user-friendly (and user assigned) name of the associated IOObject . Inherited from ManagedFunction .	
vlrFunctionId	An attribute whose 'name+value' can be used as an RDN when naming an instance of the IOObject class. This RDN uniquely identifies the object instance within the scope of its containing (parent) object instance.	

6.5.2 Constraints

Name	Definition
inv_Constraints	There are no attribute constraints.
None.	

6.6 Particular information configurations

Not applicable

End of Change in Clause 6
End of Document

Annex A (informative): Change history

Change history							
Date	TSG #	TSG Doc.	CR	Rev	Subject/Comment	Old	New
Jun 2001	S_12	SP-010283	--	--	Approved at TSG SA #12 and placed under Change Control	2.0.0	4.0.0
Dec 2001	S_14	SP-010649	001	--	Removal of MOC FnrFunction from the diagrams	4.0.0	4.1.0
Jun 2002	S_16	SP-020302	002	--	Align with Rel-4 Network Architecture (23.002) by changing Roaming Signalling Gateway (R-SGW) to Signalling Gateway (SGW)	4.1.0	4.2.0
Sep 2002	S_17	SP-020489	003	--	Upgrade to Rel-5 the Network Resource Model for Core Network Management (add Managed Object Classes (MOCs)) [NOTE: Align with Rel-5 Network Architecture]	4.2.0	5.0.0
Dec 2002	S_18	SP-020747	004	--	Removal of faulty attribute uraList	5.0.0	5.1.0
Mar 2003	S_19	SP-030142	006	--	CN Network Resource Model changed to the New Methodology - alignment with 32.102 (Telecommunication management; Architecture)	5.1.0	5.2.0
Jun 2003	S_20	SP-030281	007	--	CN Network Resource Model changed to the New Methodology - alignment with 32.102	5.2.0	5.3.0
Sep 2003	S_21	SP-030419	009	--	Correction of Information Object Classes (IOCs) Notifications - Alignment with 32.102	5.3.0	5.4.0
Dec 2003	S_22	SP-030643	010	--	Remove redundant VsDataContainer Containment UML - Now Covered by 32.622	5.4.0	5.5.0
Sep 2004	S_25	SP-040582	011	--	Correction of modelling of Media GateWay (MGW) and of Class diagrams with respect to MSC and MGW functions	5.5.0	5.6.0
Sep 2004	S_25	SP-040541	--	--	Automatic upgrade to Rel- 6 (no CR) as per request in SP-040541 SA5_presentation_SA_25.ppt (slide 17)	5.6.0	6.0.0
Dec 2004	S_26	SP-040809	012	--	Add new IMS Entities to Rel-6 Core Network NRM	6.0.0	6.1.0
Dec 2004	S_26	SP-040809	013	--	Add restart notification to GSN objects using "proceduralStatus" attribute and notifyStateChange notification	6.0.0	6.1.0

**3GPP TSG-SA5 (Telecom Management)
Meeting #41, Lisbon, PORTUGAL, 24 - 28 January 2005**

Tdoc # S5-058126

CR-Form-v7.1

CHANGE REQUEST

⌘ **32.633 CR 010** ⌘ rev **-** ⌘ Current version: **6.1.0** ⌘

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

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

Title:	⌘ Align with 32.632, regarding the IS template and UML repertoire		
Source:	⌘ SA5 (robert.petersen@ericsson.com)		
Work item code:	⌘ OAM-NIM	Date:	⌘ 28/01/2005
Category:	⌘ A	Release:	⌘ Rel-6
	Use <u>one</u> of the following categories:		Use <u>one</u> of the following releases:
	F (correction)		Ph2 (GSM Phase 2)
	A (corresponds to a correction in an earlier release)		R96 (Release 1996)
	B (addition of feature),		R97 (Release 1997)
	C (functional modification of feature)		R98 (Release 1998)
	D (editorial modification)		R99 (Release 1999)
	Detailed explanations of the above categories can be found in 3GPP TR 21.900 .		Rel-4 (Release 4)
			Rel-5 (Release 5)
			Rel-6 (Release 6)
			Rel-7 (Release 7)

Reason for change:	⌘ The specification would not be aligned with the latest version of IS.
Summary of change:	⌘ The link to the IS is changed. The abbreviation IOC is added. IOC is replacing MOC for objects in the IS. Faulty IOC attribute names are corrected. GenericNRIRPSsystem::AttributeTypes::MOReference is changed to GenericNetworkResourcesIRPSsystem::AttributeTypes::MOReference or GenericNetworkResourcesIRPSsystem::AttributeTypes::MOReferenceSet
Consequences if not approved:	⌘ The specification would refer to an old version of the IS. There would be a risk for interoperability problems as each designer will have to guess what data type should be used for relation attributes.

Clauses affected:	⌘ 1, 3.2, 5.2.												
Other specs affected:	<table border="1"> <tr> <td>Y</td> <td>N</td> <td></td> </tr> <tr> <td><input type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> <td>Other core specifications</td> </tr> <tr> <td><input type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> <td>Test specifications</td> </tr> <tr> <td><input type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> <td>O&M Specifications</td> </tr> </table>	Y	N		<input type="checkbox"/>	<input checked="" type="checkbox"/>	Other core specifications	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Test specifications	<input type="checkbox"/>	<input checked="" type="checkbox"/>	O&M Specifications
Y	N												
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Other core specifications											
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Test specifications											
<input type="checkbox"/>	<input checked="" type="checkbox"/>	O&M Specifications											
Other comments:	⌘												

Change in Clause 1

1 Scope

The purpose of this *Core Network Resources IRP: CORBA Solution Set* is to define the mapping of the IRP information model (see TS 32.632 [3]) to the protocol specific details necessary for implementation of this IRP in a CORBA/IDL environment.

This Solution Set specification is related to 3GPP TS 32.632 V6.~~4~~2.X.

End of Change in Clause 1

Change in Clause 3.2

3.2 Abbreviations

For the purposes of the present document, the following abbreviations apply:

CORBA	Common Object Request Broker Architecture
DN	Distinguished Name
IS	Information Service
IDL	Interface Definition Language (OMG)
IOC	Information Object Class
IRP	Integration Reference Point
MGW	Media GateWay
MO	Managed Object
MOC	Managed Object Class
NRM	Network Resource Model
OMG	Object Management Group
SS	Solution Set

End of Change in Clause 3.2

Change in Clause 5.2

5.2 ~~Core Network NRM Information Managed~~ Object Class (MIOC) mapping

5.2.1 ~~IOC MOC~~-MscServerFunction

Mapping from NRM ~~IOC MOC~~-MscServerFunction attributes to SS equivalent MOC MscServerFunction attributes

NRM Attributes of IOC MOC MscFunction in TS 32.632 [3]	SS Attributes	SS Type	Qualifier
mscServerFunctionId	mscServerFunctionId	string	Read-Only, M
userLabel	userLabel	string	Read- Write, M
mccList	mccList	long	Read-Write, M
mncList	mncList	long	Read-Write, M
lacList	lacList	long	Read-Write, M
sacList	sacList	long	Read-Write, M
gcaList	gcaList	long	Read-Write, M
mscId	mscId	long	Read-Write, M
Associated With/ -mscServerFunction-GsmCell mscServerFunction-GSMcell	mscServerFunction-GsmCell mscServerFunction-GSMcell	GenericNetworkResourcesIRPSystem::AttributeTypes::MOReferenceSetMOReferenceGenericNRIRPSystem::AttributeTypes::MOReference	Read-Only,- M
Associated With/ -mscServerFunction-ExternalGsmCell mscServerFunction-ExternalGSMcell	mscServerFunction-ExternalGsmCell mscServerFunction-ExternalGSMcell	GenericNetworkResourcesIRPSystem::AttributeTypes::MOReferenceSetMOReferenceGenericNRIRPSystem::AttributeTypes::MOReference	Read-Only,- M
Associated With/ -mscServerFunction-CsMgwFunction	mscServerFunction-CsMgwFunction	GenericNetworkResourcesIRPSystem::AttributeTypes::MOReferenceSetMOReferenceGenericNRIRPSystem::AttributeTypes::MOReferenceSet	Read-Only,- M

5.2.2 ~~IOC MOC~~-HlrFunction

Mapping from NRM ~~IOC MOC~~-HlrFunction attributes to SS equivalent MOC HlrFunction attributes

NRM Attributes of IOC MOC HlrFunction in TS 32.632 [3]	SS Attributes	SS Type	Qualifier
hlrFunctionId	hlrFunctionId	string	Read-Only, M
userLabel	userLabel	string	Read- Write, M

5.2.3 ~~IOC MOC~~-VlrFunction

Mapping from NRM ~~IOC MOC~~-VlrFunction attributes to SS equivalent MOC VlrFunction attributes

NRM Attributes of IOC MOC VlrFunction in TS 32.632 [3]	SS Attributes	SS Type	Qualifier
vlrFunctionId	vlrFunctionId	string	Read-Only, M
userLabel	userLabel	string	Read- Write, M

5.2.4 IOC ~~MOC~~ AucFunction

Mapping from NRM IOC ~~MOC~~ AucFunction attributes to SS equivalent MOC AucFunction attributes

NRM Attributes of <u>IOC</u> MOC AucFunction in TS 32.632 [3]	SS Attributes	SS Type	Qualifier
aucFunctionId	aucFunctionId	string	Read-Only, M
userLabel	userLabel	string	Read- Write, M

5.2.5 IOC ~~MOC~~ EirFunction

Mapping from NRM IOC ~~MOC~~ EirFunction attributes to SS equivalent MOC EirFunction attributes

NRM Attributes of <u>IOC</u> MOC EirFunction in TS 32.632 [3]	SS Attributes	SS Type	Qualifier
eirFunctionId <u>EirFunctionId</u>	eirFunctionId	string	Read-Only, M
userLabel <u>UserLabel</u>	userLabel	string	Read- Write, M

5.2.6 IOC ~~MOC~~ SmslwmscFunction

Mapping from NRM IOC ~~MOC~~ SmslwmscFunction attributes to SS equivalent MOC SmslwmscFunction attributes

NRM Attributes of <u>IOC</u> MOC SmslwmscFunction in TS 32.632 [3]	SS Attributes	SS Type	Qualifier
smslwmscFunctionId	smslwmscFunctionId	string	Read-Only, M
userLabel	userLabel	string	Read- Write, M

5.2.7 IOC ~~MOC~~ SmsGmscFunction

Mapping from NRM IOC ~~MOC~~ SmsGmscFunction attributes to SS equivalent MOC SmsGmscFunction attributes

NRM Attributes of <u>IOC</u> MOC SmsGmscFunction in TS 32.632 [3]	SS Attributes	SS Type	Qualifier
smsGmscFunctionId <u>SmsGmscFunctionId</u>	smsGmscFunctionId	string	Read-Only, M
userLabel <u>UserLabel</u>	userLabel	string	Read- Write, M

5.2.8 IOC ~~MOC~~ SgsnFunction

Mapping from NRM IOC ~~MOC~~ SgsnFunction attributes to SS equivalent MOC SgsnFunction attributes

NRM-Attributes of <u>IOC</u> MOC SgsnFunction in TS 32.632 [3]	SS Attributes	SS Type	Qualifier
sgsnFunctionId	sgsnFunctionId	string	Read-Only, M
userLabel	userLabel	string	Read-Write, M
mcclList	mcclList	long	Read-Write, M
mncList	mncList	long	Read-Write, M
lacList	lacList	long	Read-Write, M
racList	racList	long	Read-Write, M
sacList	sacList	long	Read-Write, M
sgsnId	sgsnId	long	Read-Write, M
Associated With/ <u>sgsnFunction-GsmCell</u> sgsnFunction-GSMCell	<u>sgsnFunction-GsmCell</u> sgsnFunction-GSMCell	GenericNetworkResourcesIRPSystem::AttributeTypes::MOReferenceSet MOReferenceGenericNRIRPSystem::AttributeTypes::MOReference	Read-Only, M
Associated With/ <u>sgsnFunction-ExternalGsmCell</u> sgsnFunction-ExternalGSMCell	<u>sgsnFunction-ExternalGsmCell</u> sgsnFunction-ExternalGSMCell	GenericNetworkResourcesIRPSystem::AttributeTypes::MOReferenceSet MOReferenceGenericNRIRPSystem::AttributeTypes::MOReference	Read-Only, M
proceduralStatus	There is no corresponding SS attribute.		

5.2.9 IOC ~~MOC~~ GgsnFunction

Mapping from NRM IOC ~~MOC~~ GgsnFunction attributes to SS equivalent MOC GgsnFunction attributes

NRM-Attributes of <u>IOC</u> MOC GgsnFunction in TS 32.632 [3]	SS Attributes	SS Type	Qualifier
ggsnFunctionId	ggsnFunctionId	string	Read-Only, M
userLabel	userLabel	string	Read- Write, M
proceduralStatus	There is no corresponding SS attribute.		

5.2.10 IOC ~~MOC~~ BgFunction

Mapping from NRM IOC ~~MOC~~ BgFunction attributes to SS equivalent MOC BgFunction attributes

NRM-Attributes of <u>IOC</u> MOC BgFunction in TS 32.632 [3]	SS Attributes	SS Type	Qualifier
<u>bgFunctionId</u> BgFunctionId	bgFunctionId	string	Read-Only, M
<u>userLabel</u> UserLabel	userLabel	string	Read- Write, M

5.2.11 IOC ~~MOC~~ GmscFunction

Mapping from NRM IOC ~~MOC~~ GmscFunction attributes to SS equivalent MOC GmscFunction attributes

NRM-Attributes of <u>IOC</u> MOC GmscFunction in TS 32.632 [3]	SS Attributes	SS Type	Qualifier
<u>gmscFunctionId</u> GmscFunctionId	gmscFunctionId	string	Read-Only, M
<u>userLabel</u> UserLabel	userLabel	string	Read- Write, M

5.2.12 IOC ~~MOC~~ SmlcFunction

Mapping from NRM IOC ~~MOC~~ SmlcFunction attributes to SS equivalent MOC SmlcFunction attributes

NRM-Attributes of <u>IOC</u> MOC SmlcFunction in TS 32.632 [3]	SS Attributes	SS Type	Qualifier
<u>smlcFunctionId</u> SmlcFunctionId	smlcFunctionId	string	Read-Only, M
<u>userLabel</u> UserLabel	userLabel	string	Read- Write, M

5.2.13 IOC ~~MOC~~ GmlcFunction

Mapping from NRM IOC ~~MOC~~ GmlcFunction attributes to SS equivalent MOC GmlcFunction attributes

NRM-Attributes of <u>IOC</u> MOC GmlcFunction in TS 32.632 [3]	SS Attributes	SS Type	Qualifier
<u>gmlcFunctionId</u> GmlcFunctionId	gmlcFunctionId	string	Read-Only, M
<u>userLabel</u> UserLabel	userLabel	string	Read- Write, M

5.2.14 IOC ~~MOC~~ ScfFunction

Mapping from NRM IOC ~~MOC~~ ScfFunction attributes to SS equivalent MOC ScfFunction attributes

NRM-Attributes of <u>IOC</u> MOC ScfFunction in TS 32.632 [3]	SS Attributes	SS Type	Qualifier
<u>scfFunctionId</u> ScfFunctionId	scfFunctionId	string	Read-Only, M
<u>userLabel</u> UserLabel	userLabel	string	Read- Write, M

5.2.15 IOC ~~MOC~~ SrfFunction

Mapping from NRM IOC ~~MOC~~ SrfFunction attributes to SS equivalent MOC SrfFunction attributes

NRM-Attributes of <u>IOC</u> MOC SrfFunction in TS 32.632 [3]	SS Attributes	SS Type	Qualifier
<u>srfFunctionId</u> SrfFunctionId	srfFunctionId	string	Read-Only, M
<u>userLabel</u> UserLabel	userLabel	string	Read- Write, M

5.2.16 IOC ~~MOC~~ CbcFunction

Mapping from NRM IOC ~~MOC~~ CbcFunction attributes to SS equivalent MOC CbcFunction attributes

NRM-Attributes of <u>IOC</u> MOC CbcFunction in TS 32.632 [3]	SS Attributes	SS Type	Qualifier
<u>cbcFunctionId</u> CbcFunctionId	cbcFunctionId	string	Read-Only, M
<u>userLabel</u> UserLabel	userLabel	string	Read- Write, M

5.2.17 IOC ~~MOC~~ CgfFunction

Mapping from NRM IOC ~~MOC~~ CgfFunction attributes to SS equivalent MOC CgfFunction attributes

NRM-Attributes of <u>IOC</u> MOC CgfFunction in TS 32.632 [3]	SS Attributes	SS Type	Qualifier
<u>cgfFunctionId</u> CgfFunctionId	cgfFunctionId	string	Read-Only, M
<u>userLabel</u> UserLabel	userLabel	string	Read- Write, M

5.2.18 IOC ~~MOC~~ ImsMgwFunction

Mapping from NRM IOC ~~MOC~~ MgwFunction attributes to SS equivalent MOC MgwFunction attributes

NRM-Attributes of <u>IOC</u> MOC MgwFunction in TS 32.632 [3]	SS Attributes	SS Type	Qualifier
imsMgwFunctionId	imsMgwFunctionId	string	Read-Only, M
userLabel	userLabel	string	Read- Write, M

5.2.19 IOC ~~MOC~~ GmscServerFunction

Mapping from NRM IOC ~~MOC~~ GmscServerFunction attributes to SS equivalent MOC GmscServerFunction attributes

NRM-Attributes of <u>IOC</u> MOC GmscServerFunction in TS 32.632 [3]	SS Attributes	SS Type	Qualifier
<u>gmscServerFunctionId</u> GmscServerFunctionId	gmscServerFunctionId	string	Read-Only, M
<u>userLabel</u> UserLabel	userLabel	string	Read- Write, M

5.2.20 IOC ~~MOC~~ IwfFunction

Mapping from NRM IOC ~~MOC~~ IwfFunction attributes to SS equivalent MOC IwfFunction attributes

NRM-Attributes of <u>IOC</u> MOC IwfFunction in TS 32.632 [3]	SS Attributes	SS Type	Qualifier
<u>iwfFunctionId</u> IwfFunctionId	iwfFunctionId	string	Read-Only, M
<u>userLabel</u> UserLabel	userLabel	string	Read- Write, M

5.2.21 IOC ~~MOC~~ MnpSrfFunction

Mapping from NRM IOC ~~MOC~~ MnpSrfFunction attributes to SS equivalent MOC IwfFunction attributes

NRM-Attributes of <u>IOC</u> MOC MnpSrfFunction in TS 32.632 [3]	SS Attributes	SS Type	Qualifier
mnpSrfFunctionId mnpSrfFunctionId	mnpSrfFunctionId	string	Read-Only, M
userLabel userLabel	userLabel	string	Read- Write, M

5.2.22 IOC ~~MOC~~ NpdbFunction

Mapping from NRM IOC ~~MOC~~ NpdbFunction attributes to SS equivalent MOC NpdbFunction attributes

NRM-Attributes of <u>IOC</u> MOC NpdbFunction in TS 32.632 [3]	SS Attributes	SS Type	Qualifier
npdbFunctionId npdbFunctionId	npdbFunctionId	string	Read-Only, M
userLabel userLabel	userLabel	string	Read- Write, M

5.2.23 IOC ~~MOC~~ SgwFunction

Mapping from NRM IOC ~~MOC~~ SgwFunction attributes to SS equivalent MOC SgwFunction attributes

NRM-Attributes of <u>IOC</u> MOC SgwFunction in TS 32.632 [3]	SS Attributes	SS Type	Qualifier
sgwFunctionId sgwFunctionId	sgwFunctionId	string	Read-Only, M
userLabel userLabel	userLabel	string	Read- Write, M

5.2.24 IOC ~~MOC~~ SsfFunction

Mapping from NRM IOC ~~MOC~~ SsfFunction attributes to SS equivalent MOC SsfFunction attributes

NRM-Attributes of <u>IOC</u> MOC SsfFunction in TS 32.632 [3]	SS Attributes	SS Type	Qualifier
ssfFunctionId ssfFunctionId	ssfFunctionId	string	Read-Only, M
userLabel userLabel	userLabel	string	Read- Write, M

5.2.25 IOC ~~MOC~~ BsFunction

Mapping from NRM IOC ~~MOC~~ BsFunction attributes to SS equivalent MOC BsFunction attributes

NRM-Attributes of <u>IOC</u> MOC BsFunction in TS 32.632 [3]	SS Attributes	SS Type	Qualifier
bsFunctionId bsFunctionId	bsFunctionId	string	Read-Only, M
userLabel userLabel	userLabel	string	Read- Write, M

5.2.26 ~~IOC MOC~~ IucsLink

Mapping from NRM ~~IOC MOC~~ IucsLink attributes to SS equivalent MOC IucsLink attributes

NRM Attributes of IOC MOC IucsLink in TS 32.632 [3]	SS Attributes	SS Type	Qualifier
iucsLinkId	iucsLinkId	string	Read-Only, M
userLabel	userLabel	string	Read- Write, M
Connected To/connectedRnc	connectedRnc	GenericNetworkResourcesIRPSystem::AttributeTypes::MOReferenceGenericNRIRPSystem::AttributeTypes::MOReference	Read-Only, M
Connected To/connectedBss	connectedBss	GenericNetworkResourcesIRPSystem::AttributeTypes::MOReferenceGenericNRIRPSystem::AttributeTypes::MOReference	Read-Only, M

5.2.27 ~~IOC MOC~~ IupsLink

Mapping from NRM ~~IOC MOC~~ IupsLink attributes to SS equivalent MOC IupsLink attributes

NRM Attributes of IOC MOC IucsLink in TS 32.632 [3]	SS Attributes	SS Type	Qualifier
iupsLinkId	iupsLinkId	string	Read-Only, M
userLabel	userLabel	string	Read- Write, M
Connected To/connectedRnc	connectedRnc	GenericNetworkResourcesIRPSystem::AttributeTypes::MOReferenceGenericNRIRPSystem::AttributeTypes::MOReference	Read-Only, O
Connected To/connectedBss	connectedBss	GenericNetworkResourcesIRPSystem::AttributeTypes::MOReferenceGenericNRIRPSystem::AttributeTypes::MOReference	Read-Only, O

5.2.28 ~~IOC MOC~~ IubcLink

Mapping from NRM ~~IOC MOC~~ IubcLink attributes to SS equivalent MOC IubcLink attributes

NRM Attributes of IOC MOC IucsLink in TS 32.632 [3]	SS Attributes	SS Type	Qualifier
iubcLinkId	iubcLinkId	string	Read-Only, M
userLabel	userLabel	string	Read- Write, M
Connected To/connectedRnc	connectedRnc	GenericNetworkResourcesIRPSystem::AttributeTypes::MOReferenceGenericNRIRPSystem::AttributeTypes::MOReference	Read-Only, M

5.2.29 ~~IOC MOC~~ ALink

Mapping from NRM ~~IOC MOC~~ ALink attributes to SS equivalent MOC ALink attributes

NRM Attributes of IOC MOC IucsLink in TS 32.632 [3]	SS Attributes	SS Type	Qualifier
aLinkId	aLinkId	string	Read-Only, M
userLabel	userLabel	string	Read- Write, M
Connected To/connectedBss	connectedBss	GenericNetworkResourcesIRPSystem::AttributeTypes::MOReferenceGenericNRIRPSystem::AttributeTypes::MOReference	Read-Only, M

5.2.30 IOC ~~MOC~~ GbLink

Mapping from NRM IOC ~~MOC~~ GbLink attributes to SS equivalent MOC GbLink attributes

NRM Attributes of <u>IOC</u> MOC lucLink in TS 32.632 [3]	SS Attributes	SS Type	Qualifier
gbLinkId	gbLinkId	string	Read-Only, M
userLabel	userLabel	string	Read-Write, M
Connected To/connectedBss	connectedBss	GenericNetworkResourcesIRPSystem::AttributeTypes::MOReferenceGenericNRIRPSystem::AttributeTypes::MOReference	Read-Only, M

5.2.31 IOC ~~MOC~~ CsMgwFunction

Mapping from NRM IOC ~~MOC~~ CsMgwFunction attributes to SS equivalent MOC CsMgwFunction attributes

NRM Attributes of <u>IOC</u> MOC MgwFunction in TS 32.632 [3]	SS Attributes	SS Type	Qualifier
csMgwFunctionId	csMgwFunctionId	string	Read-Only, M
userLabel	userLabel	string	Read-Write, M
Associated With/ csMgwFunction-MscServerFunctionesMgwFunction-mscServerFunction	csMgwFunction-MscServerFunctionesMgwFunction-mscServerFunction	GenericNetworkResourcesIRPSystem::AttributeTypes::MOReferenceGenericNRIRPSystem::AttributeTypes::MOReference	Read-Only, M
Connected To/ csMgwFunction-lucLinkesMgwFunction-lucLink	csMgwFunction-lucLinkesMgwFunction-lucLink	GenericNetworkResourcesIRPSystem::AttributeTypes::MOReferenceSetMOReferenceGenericNRIRPSystem::AttributeTypes::MOReference	Read-Only, M
Connected To /csMgwFunction--ALink	csMgwFunction-ALinkesMgwFunction-ALink	GenericNetworkResourcesIRPSystem::AttributeTypes::MOReferenceSetMOReferenceGenericNRIRPSystem::AttributeTypes::MOReference	Read-Only, M

5.2.32 IOC ~~MOC~~ ScscfFunction

Mapping from NRM IOC ScscfFunction attributes to SS equivalent MOC ScscfFunction

NRM Attributes of <u>IOC</u> MOC ScscfFunction in TS 32.632 [3]	SS Attributes	SS Type	Qualifier
scscfFunctionId	scscfFunctionId	string	Read-Only, M
userLabel	userLabel	string	Read-Write, M

5.2.33 IOC ~~MOC~~ PcscfFunction

Mapping from NRM IOC PcscfFunction attributes to SS equivalent MOC PcscfFunction

NRM Attributes of <u>IOC</u> MOC PcscfFunction in TS 32.632 [3]	SS Attributes	SS Type	Qualifier
pcscfFunctionId	pcscfFunctionId	string	Read-Only, M
userLabel	userLabel	string	Read-Write, M

5.2.34 IOC ~~MOC~~ IcsfFunction

Mapping from NRM IOC IcsfFunction attributes to SS equivalent MOC IcsfFunction

NRM Attributes of <u>IOC</u> MOC IcsfFunction in TS 32.632 [3]	SS Attributes	SS Type	Qualifier
<u>icsfFunctionId</u> ieseffFunctionId	icsfFunctionId	string	Read-Only, M
userLabel	userLabel	string	Read-Write, M

5.2.35 IOC ~~MOC~~ SlfFunction

Mapping from NRM IOC SlfFunction attributes to SS equivalent MOC SlfFunction

NRM Attributes of <u>IOC</u> MOC SlfFunction in TS 32.632 [3]	SS Attributes	SS Type	Qualifier
slfFunctionId	slfFunctionId	string	Read-Only, M
userLabel	userLabel	string	Read-Write, M

5.2.36 IOC ~~MOC~~ BgcFunction

Mapping from NRM IOC BgcFunction attributes to SS equivalent MOC BgcFunction

NRM Attributes of <u>IOC</u> MOC BgcFunction in TS 32.632 [3]	SS Attributes	SS Type	Qualifier
bgcFunctionId	bgcFunctionId	string	Read-Only, M
userLabel	userLabel	string	Read-Write, M

5.2.37 IOC ~~MOC~~ MrfcFunction

Mapping from NRM IOC BgcFunction attributes to SS equivalent MOC MrfcFunction

NRM Attributes of <u>IOC</u> MOC MrfcFunction in TS 32.632 [3]	SS Attributes	SS Type	Qualifier
mrfcFunctionId	<u>mrfcFunctionId</u> mrfcFunctionId	string	Read-Only, M
userLabel	userLabel	string	Read-Write, M

5.2.38 IOC ~~MOC~~ MrfpFunction

Mapping from NRM IOC MrfpFunction attributes to SS equivalent MOC MrfpFunction

NRM Attributes of <u>IOC</u> MOC MrfpFunction in TS 32.632 [3]	SS Attributes	SS Type	Qualifier
<u>mrfpFunctionId</u> rfpFunctionId	mrfpFunctionId	string	Read-Only, M
userLabel	userLabel	string	Read-Write, M

5.2.39 IOC ~~MOC~~ AsFunction

Mapping from NRM IOC AsFunction attributes to SS equivalent MOC AsFunction

NRM Attributes of <u>IOC</u> MOC AsFunction in TS 32.632 [3]	SS Attributes	SS Type	Qualifier
asFunctionId	asFunctionId	string	Read-Only, M
userLabel	userLabel	string	Read-Write, M

5.2.40 IOC ~~MOC~~ MgcFunction

Mapping from NRM IOC MgcFunction attributes to SS equivalent MOC MgcFunction

NRM Attributes of <u>IOC</u> MOC MgcFunction in TS 32.632 [3]	SS Attributes	SS Type	Qualifier
mgcfFunctionId	mgcfFunctionId	string	Read-Only, M
userLabel	userLabel	string	Read-Write, M

End of Change in Clause 5.2
End of Document

Change in Annex A

Annex A (normative): CORBA IDL, NRM Definitions

A.1 IDL specification (file name "CoreNetworkResourcesNRMDefs.idl")

```
// File CoreNetworkResourcesNRMDefs.idl
#ifndef _CORENETWORKRESOURCESNRMDEFS_IDL_
#define _CORENETWORKRESOURCESNRMDEFS_IDL_
#include "GenericNetworkResourcesNRMDefs.idl"

#pragma prefix "3gppsa5.org"

/**
 * This module defines constants for each MO class name and
 * the attribute names for each defined MO class.
 */
module CoreNetworkResourcesNRMDefs
{

    /**
     * Definitions for MO class MscServerFunction
     */
    interface MscServerFunction :
GenericNetworkResourcesNRMDefs::ManagedFunction
    {
        const string CLASS = "MscServerFunction";

        // Attribute Names
        //
        const string mscServerFunctionId = "mscServerFunctionId";
        const string mccList = "mccList";
        const string mncList = "mncList";
        const string lacList = "lacList";
        const string sacList = "sacList";
        const string gcaList = "gcaList";
        const string mscId = "mscId";
        const string mscServerFunctionGsmCell mscServerFunctionGSMcell =
"mscServerFunctionGsmCellmscServerFunctionGSMcell";
        const string mscServerFunctionExternalGsmCell
mscServerFunctionExternalGSMcell =
"mscServerFunctionExternalGsmCellmscServerFunctionExternalGSMcell";
        const string mscServerFunctionCsMgwFunction =
"mscServerFunctionCsMgwFunction";
    };

    /**
     * Definitions for MO class HlrFunction
     */
    interface HlrFunction : GenericNetworkResourcesNRMDefs::ManagedFunction
    {
        const string CLASS = "HlrFunction";

        // Attribute Names
        //
        const string hlrFunctionId = "hlrFunctionId";
    };
};
```

```
};

/**
 * Definitions for MO class VlrFunction
 */
interface VlrFunction : GenericNetworkResourcesNRMDefs::ManagedFunction
{
    const string CLASS = "VlrFunction";

    // Attribute Names
    //
    const string vlrFunctionId = "vlrFunctionId";
};

/**
 * Definitions for MO class AucFunction
 */
interface AucFunction : GenericNetworkResourcesNRMDefs::ManagedFunction
{
    const string CLASS = "AucFunction";

    // Attribute Names
    //
    const string aucFunctionId = "aucFunctionId";
};

/**
 * Definitions for MO class EirFunction
 */
interface EirFunction : GenericNetworkResourcesNRMDefs::ManagedFunction
{
    const string CLASS = "EirFunction";

    // Attribute Names
    //
    const string eirFunctionId = "eirFunctionId";
};

/**
 * Definitions for MO class SmsIwmscFunction
 */
interface SmsIwmscFunction :
GenericNetworkResourcesNRMDefs::ManagedFunction
{
    const string CLASS = "SmsIwmscFunction";

    // Attribute Names
    //
    const string smsIwmscFunctionId = "smsIwmscFunctionId";
};

/**
 * Definitions for MO class SmsGmscFunction
 */
interface SmsGmscFunction :
GenericNetworkResourcesNRMDefs::ManagedFunction
{
    const string CLASS = "SmsGmscFunction";

    // Attribute Names
```

```

    //
    const string smsGmscFunctionId = "smsGmscFunctionId";
};

/**
 * Definitions for MO class SgsnFunction
 */
interface SgsnFunction : GenericNetworkResourcesNRMDefs::ManagedFunction
{
    const string CLASS = "SgsnFunction";

    // Attribute Names
    //
    const string sgsnFunctionId = "sgsnFunctionId";
    const string mccList = "mccList";
    const string mncList = "mncList";
    const string lacList = "lacList";
    const string racList = "racList";
    const string sacList = "sacList";
    const string sgsnId = "sgsnId";
    const string sgsnFunctionGsmCell sgsnFunctionGSMCell =
"sgsnFunctionGsmCellsgsnFunctionGSMCell";
    const string sgsnFunctionExternalGsmCell sgsnFunctionExternalGSMCell =
"sgsnFunctionExternalGsmCellsgsnFunctionExternalGSMCell";
};

/**
 * Definitions for MO class GgsnFunction
 */
interface GgsnFunction : GenericNetworkResourcesNRMDefs::ManagedFunction
{
    const string CLASS = "GgsnFunction";

    // Attribute Names
    //
    const string ggsnFunctionId = "ggsnFunctionId";
};

/**
 * Definitions for MO class BgFunction
 */
interface BgFunction : GenericNetworkResourcesNRMDefs::ManagedFunction
{
    const string CLASS = "BgFunction";

    // Attribute Names
    //
    const string bgFunctionId = "bgFunctionId";
};

/**
 * Definitions for MO class GmscFunction
 */
interface GmscFunction : GenericNetworkResourcesNRMDefs::ManagedFunction
{
    const string CLASS = "GmscFunction";

    // Attribute Names
    //
    const string gmscFunctionId = "gmscFunctionId";
};

```

```
/**
 * Definitions for MO class SmlcFunction
 */
interface SmlcFunction : GenericNetworkResourcesNRMDefs::ManagedFunction
{
    const string CLASS = "SmlcFunction";

    // Attribute Names
    //
    const string smlcFunctionId = "smlcFunctionId";
};
```

```
/**
 * Definitions for MO class GmlcFunction
 */
interface GmlcFunction : GenericNetworkResourcesNRMDefs::ManagedFunction
{
    const string CLASS = "GmlcFunction";

    // Attribute Names
    //
    const string gmlcFunctionId = "gmlcFunctionId";
};
```

```
/**
 * Definitions for MO class ScfFunction
 */
interface ScfFunction : GenericNetworkResourcesNRMDefs::ManagedFunction
{
    const string CLASS = "ScfFunction";

    // Attribute Names
    //
    const string scfFunctionId = "scfFunctionId";
};
```

```
/**
 * Definitions for MO class SrfFunction
 */
interface SrfFunction : GenericNetworkResourcesNRMDefs::ManagedFunction
{
    const string CLASS = "SrfFunction";

    // Attribute Names
    //
    const string srfFunctionId = "srfFunctionId";
};
```

```
/**
 * Definitions for MO class CbcFunction
 */
interface CbcFunction : GenericNetworkResourcesNRMDefs::ManagedFunction
{
    const string CLASS = "CbcFunction";

    // Attribute Names
    //
    const string cbcFunctionId = "cbcFunctionId";
};
```

```
/**
 * Definitions for MO class CgfFunction
 */
interface CgfFunction : GenericNetworkResourcesNRMDefs::ManagedFunction
{
    const string CLASS = "CgfFunction";

    // Attribute Names
    //
    const string cgfFunctionId = "cgfFunctionId";
};

/**
 * Definitions for MO class ImsMgwFunction
 */
interface ImsMgwFunction : GenericNetworkResourcesNRMDefs::ManagedFunction
{
    const string CLASS = "ImsMgwFunction";

    // Attribute Names
    //
    const string imsMgwFunctionId = "imsMgwFunctionId";
};

/**
 * Definitions for MO class GmscServerFunction
 */
interface GmscServerFunction :
GenericNetworkResourcesNRMDefs::ManagedFunction
{
    const string CLASS = "GmscServerFunction";

    // Attribute Names
    //
    const string gmscServerFunctionId = "gmscServerFunctionId";
};

/**
 * Definitions for MO class IwfFunction
 */
interface IwfFunction : GenericNetworkResourcesNRMDefs::ManagedFunction
{
    const string CLASS = "IwfFunction";

    // Attribute Names
    //
    const string iwfunctionId = "iwfunctionId";
};

/**
 * Definitions for MO class MnpSrfFunction
 */
interface MnpSrfFunction : GenericNetworkResourcesNRMDefs::ManagedFunction
{
    const string CLASS = "MnpSrfFunction";

    // Attribute Names
    //
    const string mnpSrfFunctionId = "mnpSrfFunctionId";
};
```

```
/**
 * Definitions for MO class NpdbFunction
 */
interface NpdbFunction : GenericNetworkResourcesNRMDefs::ManagedFunction
{
    const string CLASS = "NpdbFunction";

    // Attribute Names
    //
    const string npdbFunctionId = "npdbFunctionId";
};

/**
 * Definitions for MO class SgwFunction
 */
interface SgwFunction : GenericNetworkResourcesNRMDefs::ManagedFunction
{
    const string CLASS = "SgwFunction";

    // Attribute Names
    //
    const string sgwFunctionId = "sgwFunctionId";
};

/**
 * Definitions for MO class SsfFunction
 */
interface SsfFunction : GenericNetworkResourcesNRMDefs::ManagedFunction
{
    const string CLASS = "SsfFunction";

    // Attribute Names
    //
    const string ssfFunctionId = "ssfFunctionId";
};

/**
 * Definitions for MO class ScscfFunction
 */
interface ScscfFunction : GenericNetworkResourcesNRMDefs::ManagedFunction
{
    const string CLASS = "ScscfFunction";

    // Attribute Names
    //
    const string scscfFunctionId = "scscfFunctionId";
};

/**
 * Definitions for MO class PcscfFunction
 */
interface PcscfFunction : GenericNetworkResourcesNRMDefs::ManagedFunction
{
    const string CLASS = "PcscfFunction";
    // Attribute Names
    //
    const string pcscfFunctionId = "pcscfFunctionId";
};
```

```
/**
 * Definitions for MO class Ics cfFunction
 */
interface Ics cfFunction : GenericNetworkResourcesNRMDefs::ManagedFunction
{
    const string CLASS = "Ics cfFunction";

    // Attribute Names
    //
    const string ics cfFunctionId = "ics cfFunctionId";
};

/**
 * Definitions for MO class SlfFunction
 */
interface SlfFunction : GenericNetworkResourcesNRMDefs::ManagedFunction
{
    const string CLASS = "SlfFunction";

    // Attribute Names
    //
    const string slfFunctionId = "slfFunctionId";
};

/**
 * Definitions for MO class BgcFunction
 */
interface BgcFunction : GenericNetworkResourcesNRMDefs::ManagedFunction
{
    const string CLASS = "BgcFunction";

    // Attribute Names
    //
    const string bgcFunctionId = "bgcFunctionId";
};

/**
 * Definitions for MO class MrfcFunction
 */
interface MrfcFunction : GenericNetworkResourcesNRMDefs::ManagedFunction
{
    const string CLASS = "MrfcFunction";

    // Attribute Names
    //
    const string mrfcFunctionId = "mrfcFunctionId";
};

/**
 * Definitions for MO class MrfpFunction
 */
interface MrfpFunction : GenericNetworkResourcesNRMDefs::ManagedFunction
{
    const string CLASS = "MrfpFunction";

    // Attribute Names
    //
    const string mrfpFunctionId = "mrfpFunctionId";
};
```



```
/**
 * Definitions for MO class AsFunction
 */
interface AsFunction : GenericNetworkResourcesNRMDefs::ManagedFunction
{
    const string CLASS = "AsFunction";

    // Attribute Names
    //
    const string asFunctionId = "asFunctionId";
};

/**
 * Definitions for MO class MgcFunction
 */
interface MgcFunction : GenericNetworkResourcesNRMDefs::ManagedFunction
{
    const string CLASS = "MgcFunction";

    // Attribute Names
    //
    const string mgcFunctionId = "mgcFunctionId";
};

/**
 * Definitions for MO class BsFunction
 */
interface BsFunction : GenericNetworkResourcesNRMDefs::ManagedFunction
{
    const string CLASS = "BsFunction";

    // Attribute Names
    //
    const string bsFunctionId = "bsFunctionId";
};

/**
 * Definitions for MO class IucsLink
 */
interface IucsLink : GenericNetworkResourcesNRMDefs::ManagedFunction
{
    const string CLASS = "IucsLink";

    // Attribute Names
    //
    const string iucsLinkId = "iucsLinkId";
    const string connectedRnc = "connectedRnc";
    const string connectedBss = "connectedBss";
};

/**
 * Definitions for MO class IupsLink
 */
interface IupsLink : GenericNetworkResourcesNRMDefs::ManagedFunction
{
    const string CLASS = "IupsLink";

    // Attribute Names
    //
    const string iupsLinkId = "iupsLinkId";
    const string connectedRnc = "connectedRnc";
    const string connectedBss = "connectedBss";
};
```

```
};

/**
 * Definitions for MO class IubcLink
 */
interface IubcLink : GenericNetworkResourcesNRMDefs::ManagedFunction
{
    const string CLASS = "IubcLink";

    // Attribute Names
    //
    const string iubcLinkId = "iubcLinkId";
    const string connectedRnc = "connectedRnc";
};

/**
 * Definitions for MO class ALink
 */
interface ALink : GenericNetworkResourcesNRMDefs::ManagedFunction
{
    const string CLASS = "ALink";

    // Attribute Names
    //
    const string aLinkId = "aLinkId";
    const string connectedBss = "connectedBss";
};

/**
 * Definitions for MO class GbLink
 */
interface GbLink : GenericNetworkResourcesNRMDefs::ManagedFunction
{
    const string CLASS = "GbLink";

    // Attribute Names
    //
    const string gbLinkId = "gbLinkId";
    const string connectedBss = "connectedBss";
};

/**
 * Definitions for MO class CsMgwFunction
 */
interface CsMgwFunction : GenericNetworkResourcesNRMDefs::ManagedFunction
{
    const string CLASS = "CsMgwFunction";

    // Attribute Names
    //
    const string csMgwFunctionId = "csMgwFunctionId";
    const string csMgwFunctionMscServerFunction =
"csMgwFunctionMscServerFunction";
    const string csMgwFunctionIucsLink = "csMgwFunctionIucsLink";
    const string csMgwFunctionALink = "csMgwFunctionALink";
};

};

#endif // _CORENETWORKRESOURCESNRMDEFS_IDL_
```

End of Change in Annex A
End of Document

Annex B (informative): Change history

Change history							
Date	TSG #	TSG Doc.	CR	Rev	Subject/Comment	Old	New
Jun 2001	S_12	SP-010283	--	--	Approved at TSG SA #12 and placed under Change Control	2.0.0	4.0.0
Jun 2002	S_16	SP-020302	001	--	Align with Rel-4 Network Architecture (23.002) by changing Roaming Signalling Gateway (R-SGW) to Signalling Gateway (SGW)	4.0.0	4.1.0
Sep 2002	S_17	SP-020489	002	--	Upgrade to Rel-5 the CORBA SS for Core Network NRM (add Managed Object Classes (MOCs)	4.1.0	5.0.0
Dec 2002	S_18	SP-020747	003	--	Removal of faulty attribute uraList (alignment with Rel-5 32.632 Network Resource Model)	5.0.0	5.1.0
Sep 2004	S_25	SP-040567	004	--	Correction in Rules for NRM extensions - Align with 32.622 (Generic NRM IS)	5.1.0	5.2.0
Sep 2004	S_25	SP-040582	005	--	Correction of modelling of Media GateWay (MGW)	5.1.0	5.2.0
Sep 2004	S_25	SP-040581	006	--	Add Inheritance in CORBA IDL	5.2.0	6.0.0
Dec 2004	S_26	SP-040809	007	--	Add new IMS Entities	6.0.0	6.1.0
Dec 2004	S_26	SP-040809	008	--	Add restart notification to GSN objects using "proceduralStatus" attribute - Align with IS in 32.632	6.0.0	6.1.0

3GPP TSG-SA5 (Telecom Management)
Meeting #41, Lisbon, PORTUGAL, 24 - 28 January 2005

Tdoc #S5-058127

CR-Form-v7.1

CHANGE REQUEST

⌘ 32.634 CR 009 ⌘ rev - ⌘ Current version: 6.0.0 ⌘

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

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

Title:	⌘ Align with 32.632, regarding the IS template and UML repertoire		
Source:	⌘ SA5 (robert.petersen@ericsson.com)		
Work item code:	⌘ OAM-NIM	Date:	⌘ 28/01/2005
Category:	⌘ A	Release:	⌘ Rel-6
	<i>Use one of the following categories:</i> F (correction) A (corresponds to a correction in an earlier release) B (addition of feature), C (functional modification of feature) D (editorial modification) Detailed explanations of the above categories can be found in 3GPP TR 21.900 .		<i>Use one of the following releases:</i> Ph2 (GSM Phase 2) R96 (Release 1996) R97 (Release 1997) R98 (Release 1998) R99 (Release 1999) Rel-4 (Release 4) Rel-5 (Release 5) Rel-6 (Release 6) Rel-7 (Release 7)

Reason for change:	⌘ The specification would not be aligned with the latest version of IS.
Summary of change:	⌘ The link to the IS is changed.
Consequences if not approved:	⌘ The specification would refer to an old version of the IS.

Clauses affected:	⌘ 1, 3.2, 4.2.2.1, 4.2.2.8 and 4.2.2.31.										
Other specs affected:	<table border="1"> <tr> <th>Y</th> <th>N</th> </tr> <tr> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> <tr> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> <tr> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> </table>	Y	N	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Other core specifications Test specifications O&M Specifications	⌘
Y	N										
<input type="checkbox"/>	<input type="checkbox"/>										
<input type="checkbox"/>	<input type="checkbox"/>										
<input type="checkbox"/>	<input type="checkbox"/>										
Other comments:	⌘										

Change in Clause 1

1 Scope

The present document specifies the Common Management Information Protocol (CMIP) Solution Set (SS) for the CN Network Resource Integration Reference Point (IRP): Network Resource Model defined in 3GPP TS 32.632 [4]. In detail:

- Clause 4 contains an introduction to some concepts that are the base for some specific aspects of the CMIP interfaces.
- Clause 5 contains the GDMO definitions for the Alarm Management over the CMIP interfaces
- Clause 6 contains the ASN.1 definitions supporting the GDMO definitions provided in clause 5.

This Solution Set specification is related to 3GPP TS 32.632 V6.02.X [4].

End of Change in Clause 1

Change in Clause 3.2

3.2 Abbreviations

For the purposes of the present document, the following abbreviations apply:

CMIP	Common Management Information Protocol
DN	Distinguished Name
GDMO	Guidelines for the Definition of Managed Objects
IDL	Interface Definition Language
IEC	International Electrotechnical Commission
IOC	Information Object Class
ISO	International Standards Organization
ITU-T	International Telecommunication Union, Telecommunication Sector
MGW	Media GateWay
MIB	Management Information Base
MIM	Management Information Model
MIT	Management Information Tree (or Naming Tree)
MOC	Managed Object Class
MOI	Managed Object Instance
NE	Network Element
NR	Network Resource
NRM	Network Resource Model
TMN	Telecommunications Management Network
UTRAN	UMTS Terrestrial Radio Access Network

End of Change in Clause 3.2

Change in Clause 4.2.2.1

4.2.2.1 Attribute Mapping of the IOC *MscServerFunction*

Table 2: Attribute mapping of the IOC *MscServerFunction*

IS Attribute	CMIP SS Attributes	Support Qualifier	Read Qualifier	Write Qualifier
mscServerFunctionId	mscServerFunctionId	M	M	--
userLabel	userLabel (ITU-T Rec. M.3100 [9])	M	M	M
mccList	mccList	M	M	M
mncList	mncList	M	M	M
lacList	lacList	M	M	M
sacList	sacList	M	M	M
gcaList	gcaList	M	M	M
mscId	mscId	M	M	M
mscServerFunction-GsmCell mscServerFunction-ExternalGsmCell	mscServerFunction-GSMcell	M	M	--
mscServerFunction-ExternalGSMCell	mscServerFunction-ExternalGSMcell	M	M	--
mscServerFunction-CsMgwFunction	mscServerFunction-CsMgwFunction	M	M	--

End of Change in Clause 4.2.2.1

Change in Clause 4.2.2.8

4.2.2.8 Attribute Mapping of the IOC *SgsnFunction*

Table 9: Attribute mapping of the IOC *SgsnFunction*

IS Attribute	CMIP SS Attribute	Support Qualifier	Read Qualifier	Write Qualifier
sgsnFunctionId	sgsnFunctionId	M	M	--
UserLabel	userLabel (ITU-T Rec. M.3100 [9])	M	M	M
mccList	mccList	M	M	M
mncList	mncList	M	M	M
lacList	lacList	M	M	M
racList	racList	M	M	M
sacList	sacList	M	M	M
sgsnId	sgsnId	M	M	M
sgsnFunction-GsmCell sgsnFunction-ExternalGsmCell	sgsnFunction-GSMCell	M	M	--
sgsnFunction-ExternalGSMCell	sgsnFunction-ExternalGSMCell	M	M	--

End of Change in Clause 4.2.2.8

Change in Clause 4.2.2.31

4.2.2.31 Attribute Mapping of the IOC *CsMgwFunction*

Table 32: Attribute mapping of the IOC *CsMgwFunction*

IS Attribute	CMIP SS Attribute	Support Qualifier	Read Qualifier	Write Qualifier
csMgwFunctionId	CsmgwFunctionId	M	M	--
userLabel	userLabel (ITU-T Rec. M.3100 [9])	M	M	M
csMgwFunction-MscServerFunction	csMgwFunction-MscServerFunction	M	M	--
csMgwFunction-lucsLink	csMgwFunction-lucsLink	M	M	--
csMgwFunction-ALink	csMgwFunction-ALink	M	M	--

End of Change in Clause 4.2.2.31

Annex B (informative): Change history

Change history							
Date	TSG #	TSG Doc.	CR	Rev	Subject/Comment	Old	New
Jun 2001	S_12	SP-010283	--	--	Approved at TSG SA #12 and placed under Change Control	2.0.0	4.0.0
Sep 2001	S_13	SP-010478	001	--	Correction due to TS renumbering	4.0.0	4.1.0
Sep 2002	--	--	--	--	Cosmetics/Styles	4.1.0	4.1.1
Dec 2002	S_18	SP-020749	002	--	Alignment of the CMIP SS with the Rel-5 version of the IS in 32.632	4.1.1	5.0.0
Dec 2003	S_22	SP-030642	003	--	Add notifications to functional objects - Align with 32.632 (IS)	5.0.0	5.1.0
Mar 2004	S_23	SP-040130	004	--	Removal of the attribute uraList from the MOC MscServerFunction – Alignment with the IS 32.632	5.1.0	5.2.0
Sep 2004	S_25	SP-040582	005	--	Correction of modelling of Media GateWay (MGW)	5.2.0	5.3.0
Sep 2004	S_25	SP-040591	006	--	Removal of the 3GPP Release# cross references in the GDMO section	5.2.0	5.3.0
Sep 2004	S_25	SP-040541	--	--	Automatic upgrade to Rel- 6 (no CR) as per request in SP-040541 SA5_presentation_SA_25.ppt (slide 17)	5.3.0	6.0.0

**3GPP TSG-SA5 (Telecom Management)
Meeting #41, Lisbon, PORTUGAL, 24 - 28 January 2005**

Tdoc # S5-058128

CR-Form-v7.1

CHANGE REQUEST

⌘ **32.635 CR 010** ⌘ rev **-** ⌘ Current version: **6.1.0** ⌘

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

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

Title:	⌘ Align with 32.632, regarding the IS template and UML repertoire		
Source:	⌘ SA5 (robert.petersen@ericsson.com)		
Work item code:	⌘ OAM-NIM	Date:	⌘ 28/01/2005
Category:	⌘ A	Release:	⌘ Rel-6
	<p>Use <u>one</u> of the following categories:</p> <p>F (correction)</p> <p>A (corresponds to a correction in an earlier release)</p> <p>B (addition of feature),</p> <p>C (functional modification of feature)</p> <p>D (editorial modification)</p> <p>Detailed explanations of the above categories can be found in 3GPP TR 21.900.</p>		<p>Use <u>one</u> of the following releases:</p> <p>Ph2 (GSM Phase 2)</p> <p>R96 (Release 1996)</p> <p>R97 (Release 1997)</p> <p>R98 (Release 1998)</p> <p>R99 (Release 1999)</p> <p>Rel-4 (Release 4)</p> <p>Rel-5 (Release 5)</p> <p>Rel-6 (Release 6)</p> <p>Rel-7 (Release 7)</p>

Reason for change:	⌘ The specification would not be aligned with the latest version of IS.
Summary of change:	⌘ The version of the IS is changed. Faulty attribute names has been changed. The archive for the XML Schema is changed.
Consequences if not approved:	⌘ The TS would refer to an old version of the IS

Clauses affected:	⌘ 1, Annex A and Annex B										
Other specs affected:	<table border="1"> <tr> <td>Y</td> <td>N</td> </tr> <tr> <td><input checked="" type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> </tr> <tr> <td><input checked="" type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> </tr> <tr> <td><input checked="" type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> </tr> </table>	Y	N	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Other core specifications Test specifications O&M Specifications	⌘
Y	N										
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>										
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>										
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>										
Other comments:	⌘										

Change in Clause 1

1 Scope

The present document provides the NRM-specific part related to the Core Network Resources IRP NRM [1] of the XML file format definition for the Bulk Configuration Management IRP IS [2].

The main part of this XML file format definition is provided by 3GPP TS 32.615 [3].

Bulk CM XML file formats are based on XML [4], XML Schema [5] [6] [7] and XML Namespace [8] standards.

This File Format Definition specification is related to 3GPP TS 32.632 V6.4.2.X.

End of Change in Clause 1
End of Document

Change in Annex A

Annex A (normative): Configuration data file NRM-specific XML schema (file name "coreNrm.xsd")

The following XML schema coreNrm.xsd is the NRM-specific schema for the Core Network Resources IRP NRM defined in 3GPP TS 32.632 [1]:

```
<?xml version="1.0" encoding="UTF-8"?>

<!--
  3GPP TS 32.635 Core Network Resources IRP
  Bulk CM Configuration data file NRM-specific XML schema
  coreNrm.xsd
-->

<schema
  targetNamespace=
"http://www.3gpp.org/ftp/specs/archive/32_series/32.635#coreNrm"
  elementFormDefault="qualified"
  xmlns="http://www.w3.org/2001/XMLSchema"
  xmlns:xn=
"http://www.3gpp.org/ftp/specs/archive/32_series/32.625#genericNrm"
  xmlns:cn=
"http://www.3gpp.org/ftp/specs/archive/32_series/32.635#coreNrm"
>

  <import
    namespace=
"http://www.3gpp.org/ftp/specs/archive/32_series/32.625#genericNrm"
  />

  <!-- Core Network Resources IRP NRM class associated XML elements -->

  <element
    name="MscServerFunction"
    substitutionGroup="xn:ManagedElementOptionallyContainedNrmClass"
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>
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              <element name="lacList" minOccurs="0"/>
              <element name="sacList" minOccurs="0"/>
              <element name="gcaList" minOccurs="0"/>
              <element name="mscId" minOccurs="0"/>
            </all>
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        <choice minOccurs="0" maxOccurs="unbounded">
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          <element name="mscServerFunctionCsMgwFunction" minOccurs="0" maxOccurs="unbounded" />
          <element ref="xn:VsDataContainer" minOccurs="0" maxOccurs="unbounded" />
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  substitutionGroup="xn:ManagedElementOptionallyContainedNrmClass"
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          <choice minOccurs="0" maxOccurs="unbounded">
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  substitutionGroup="xn:ManagedElementOptionallyContainedNrmClass"
>
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</complexType>
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  substitutionGroup="xn:ManagedElementOptionallyContainedNrmClass"
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  substitutionGroup="xn:ManagedElementOptionallyContainedNrmClass"
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  substitutionGroup="xn:ManagedElementOptionallyContainedNrmClass"
>
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          </element>
        </sequence>
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  </complexType>
</element>

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                <element name="lacList" minOccurs="0"/>
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            <element name="cn:
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            <element ref="xn:VsDataContainer"/>
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            <element ref="xn:VsDataContainer"/>
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>
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          <choice minOccurs="0" maxOccurs="unbounded">
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<element
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  substitutionGroup="xn:ManagedElementOptionallyContainedNrmClass"
>
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      <extension base="xn:NrmClass">
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        <element name="userLabel" minOccurs="0"/>
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</extension>
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>
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  </complexType>
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<element name="IupsLink">
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            <element name="connectedBss" minOccurs="0"/>
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  </extension>
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</element>

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                <element name="connectedBss" minOccurs="0"/>
              </all>
            </complexType>
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          </choice>
        </sequence>
      </extension>
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  </complexType>
</element>

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</element>

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            </complexType>
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          </choice>
        </sequence>
      </extension>
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</element>

<element
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  substitutionGroup="xn:ManagedElementOptionallyContainedNrmClass"
>
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              <all>
                <element name="userLabel" minOccurs="0"/>
              </all>
            </complexType>
          </element>
          <choice minOccurs="0" maxOccurs="unbounded">
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          </choice>
        </sequence>
      </extension>
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  substitutionGroup="xn:ManagedElementOptionallyContainedNrmClass"
>
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                <element name="userLabel" minOccurs="0"/>
              </all>
            </complexType>
          </element>
        </sequence>
      </extension>
    </complexContent>
  </complexType>
</element>

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        </element>
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        </choice>
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                <element name="userLabel" minOccurs="0"/>
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            </complexType>
          </element>
          <choice minOccurs="0" maxOccurs="unbounded">
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        </sequence>
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</element>

<element
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  substitutionGroup="xn:ManagedElementOptionallyContainedNrmClass"
>
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          <choice minOccurs="0" maxOccurs="unbounded">
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        </sequence>
      </extension>
    </complexContent>
  </complexType>
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  substitutionGroup="xn:ManagedElementOptionallyContainedNrmClass"
>
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    </sequence>
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        </sequence>
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            </complexType>
          </element>
          <choice minOccurs="0" maxOccurs="unbounded">
            <element ref="xn:VsDataContainer"/>
          </choice>
        </sequence>
      </extension>
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</element>

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          </element>
          <choice minOccurs="0" maxOccurs="unbounded">
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          </choice>
        </sequence>
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    </complexContent>
  </complexType>
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>
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              <all>
                <element name="userLabel" minOccurs="0"/>
              </all>
            </complexType>
          </element>
          <choice minOccurs="0" maxOccurs="unbounded">
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          </choice>
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      </extension>
    </complexContent>
  </complexType>
</element>

<element
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  substitutionGroup="xn:ManagedElementOptionallyContainedNrmClass"
>
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            <complexType>
              <all>

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        <element name="userLabel" minOccurs="0"/>
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    </complexType>
  </element>
  <choice minOccurs="0" maxOccurs="unbounded">
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  </choice>
</sequence>
</extension>
</complexContent>
</complexType>
</element>

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  substitutionGroup="xn:ManagedElementOptionallyContainedNrmClass"
>
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      <extension base="xn:NrmClass">
        <sequence>
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              <all>
                <element name="userLabel" minOccurs="0"/>
              </all>
            </complexType>
          </element>
          <choice minOccurs="0" maxOccurs="unbounded">
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          </choice>
        </sequence>
      </extension>
    </complexContent>
  </complexType>
</element>

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  substitutionGroup="xn:ManagedElementOptionallyContainedNrmClass"
>
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            <complexType>
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                <element name="csMgwFunctionALink" minOccurs="0"/>
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            </complexType>
          </element>
          <choice minOccurs="0" maxOccurs="unbounded">
            <element ref="xn:VsDataContainer"/>
          </choice>
        </sequence>
      </extension>
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</element>

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  >
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      <extension base="xn:NrmClass">
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              <all>
                <element name="userLabel" minOccurs="0"/>
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            </complexType>
          </element>
          <choice minOccurs="0" maxOccurs="unbounded">
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          </choice>
        </sequence>
      </extension>
    </complexContent>
  </complexType>
</element>

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  substitutionGroup="xn:ManagedElementOptionallyContainedNrmClass"
  >
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              <all>
                <element name="userLabel" minOccurs="0"/>
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      </extension>
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  substitutionGroup="xn:ManagedElementOptionallyContainedNrmClass"
  >
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      <extension base="xn:NrmClass">
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</complexType>
</element>
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</choice>
</sequence>
</extension>
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</element>
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    substitutionGroup="xn:ManagedElementOptionallyContainedNrmClass"
    >
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                            <all>
                                <element name="userLabel" minOccurs="0"/>
                            </all>
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                    </element>
                    <choice minOccurs="0" maxOccurs="unbounded">
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                    </choice>
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</element>
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    substitutionGroup="xn:ManagedElementOptionallyContainedNrmClass"
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            <extension base="xn:NrmClass">
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                            <all>
                                <element name="userLabel" minOccurs="0"/>
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                    </choice>
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            </extension>
        </complexContent>
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</element>
<element
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substitutionGroup="xn:ManagedElementOptionallyContainedNrmClass"
>
<complexType>
  <complexContent>
    <extension base="xn:NrmClass">
      <sequence>
        <element name="attributes" minOccurs="0">
          <complexType>
            <all>
              <element name="userLabel" minOccurs="0"/>
            </all>
          </complexType>
        </element>
        <choice minOccurs="0" maxOccurs="unbounded">
          <element ref="xn:VsDataContainer"/>
        </choice>
      </sequence>
    </extension>
  </complexContent>
</complexType>
</element>

<element
  name="MrfpFunction"
  substitutionGroup="xn:ManagedElementOptionallyContainedNrmClass"
  >
  <complexType>
    <complexContent>
      <extension base="xn:NrmClass">
        <sequence>
          <element name="attributes" minOccurs="0">
            <complexType>
              <all>
                <element name="userLabel" minOccurs="0"/>
              </all>
            </complexType>
          </element>
          <choice minOccurs="0" maxOccurs="unbounded">
            <element ref="xn:VsDataContainer"/>
          </choice>
        </sequence>
      </extension>
    </complexContent>
  </complexType>
</element>

<element
  name="AsFunction"
  substitutionGroup="xn:ManagedElementOptionallyContainedNrmClass"
  >
  <complexType>
    <complexContent>
      <extension base="xn:NrmClass">
        <sequence>
          <element name="attributes" minOccurs="0">
            <complexType>
              <all>
                <element name="userLabel" minOccurs="0"/>
              </all>
            </complexType>
          </element>
          <choice minOccurs="0" maxOccurs="unbounded">
            <element ref="xn:VsDataContainer"/>
          </choice>
        </sequence>
      </extension>
    </complexContent>
  </complexType>
</element>

```



```
        </choice>
      </sequence>
    </extension>
  </complexContent>
</complexType>
</element>

<element
  name="MgcfFunction"
  substitutionGroup="xn:ManagedElementOptionallyContainedNrmClass"
  >
  <complexType>
    <complexContent>
      <extension base="xn:NrmClass">
        <sequence>
          <element name="attributes" minOccurs="0">
            <complexType>
              <all>
                <element name="userLabel" minOccurs="0"/>
              </all>
            </complexType>
          </element>
          <choice minOccurs="0" maxOccurs="unbounded">
            <element ref="xn:VsDataContainer"/>
          </choice>
        </sequence>
      </extension>
    </complexContent>
  </complexType>
</element>

</schema>
```

End of Annex A

Change in Clause Annex B

Annex B (informative): XML schema electronic files

The electronic files corresponding to the normative XML schemas defined in the present document are available in native form in the following archive:

http://www.3gpp.org/ftp/specs/archive/32_series/32.635/schema/32635-6+20-XMLSchema.zip

**End of Change in Annex B
End of Document**

Annex C (informative): Change history

Change history							
Date	TSG #	TSG Doc.	CR	Rev	Subject/Comment	Old	New
Jun 2002	S_16	SP-020298	--	--	Submitted to TSG SA #16 for Information	1.0.0	
Sep 2002	S_17	SP-020461	--	--	Submitted to TSG SA #17 for Approval	2.0.0	5.0.0
Jun 2003	S_20	SP-030287	001	--	Correction of Core NRM XML schema namespace URIs	5.0.0	5.1.0
Jun 2003	S_20	SP-030288	002	--	Generic NRM XML schema dependencies removal	5.0.0	5.1.0
Oct 2003	--	--	--	--	Attached to this TS the normative XML schema electronic files corresponding to June 2003 TS 32.635	5.1.0	5.1.1
Mar 2004	S_23	SP-040131	003	--	Add the capability to contain instances of VsDataContainer to some MOs - Align with the IS 32.632	5.1.1	5.2.0
Jun 2004	S_24	SP-040259	004	--	Removal of XML schema URI dependencies	5.2.0	5.3.0
Jun 2004	S_24	SP-040258	005	--	Correction of the annex related to XML schema electronic files publication	5.2.0	5.3.0
Sep 2004	S_25	SP-040583	006	--	Add missing elements in the Core Network XML file format definition	5.3.0	5.4.0
Sep 2004	S_25	SP-040582	007	--	Correction of modelling of Media GateWay (MGW)	5.3.0	5.4.0
Sep 2004	S_25	SP-040541	--	--	Automatic upgrade to Rel- 6 (no CR) as per request in SP-040541 SA5_presentation_SA_25.ppt (slide 17)	5.4.0	6.0.0
Dec 2004	S_26	SP-040809	008	--	Add new IMS Entities	6.0.0	6.1.0

CHANGE REQUEST

⌘ **32.634 CR 010** ⌘ rev **-** ⌘ Current version: **6.0.0** ⌘

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

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

Title:	⌘ Add the IMS objects - Align with 32.632 Configuration Management (CM); Core Network Resources IRP NRM		
Source:	⌘ SA5 Siemens (clemens.suerbaum@siemens.com)		
Work item code:	⌘ OAM-NIM	Date:	⌘ 28/01/2005
Category:	⌘ F	Release:	⌘ Rel-6
	Use <u>one</u> of the following categories: F (correction) A (corresponds to a correction in an earlier release) B (addition of feature), C (functional modification of feature) D (editorial modification) Detailed explanations of the above categories can be found in 3GPP TR 21.900 .		Use <u>one</u> of the following releases: Ph2 (GSM Phase 2) R96 (Release 1996) R97 (Release 1997) R98 (Release 1998) R99 (Release 1999) Rel-4 (Release 4) Rel-5 (Release 5) Rel-6 (Release 6) Rel-7 (Release 7)

Reason for change:	⌘ IMS object missing in the CMIP Solution Set		
Summary of change:	⌘ IMS objects are introduced		
Consequences if not approved:	⌘ The CMIP Solution Set not aligned with the Network Resource Model (NRM); Resulting in an inconsistent set of specifications (32.36x).		

Clauses affected:	⌘ 1, 4.2, 5, 6, Annex A						
Other specs affected:	<table border="1" style="display: inline-table; border-collapse: collapse;"> <tr> <td style="width: 20px; text-align: center;">Y</td> <td style="width: 20px; text-align: center;">N</td> </tr> <tr> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> </tr> </table> Other core specifications	Y	N	<input type="checkbox"/>	<input checked="" type="checkbox"/>	⌘	
Y	N						
<input type="checkbox"/>	<input checked="" type="checkbox"/>						
	<table border="1" style="display: inline-table; border-collapse: collapse;"> <tr> <td style="width: 20px; text-align: center;">Y</td> <td style="width: 20px; text-align: center;">N</td> </tr> <tr> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> </tr> </table> Test specifications	Y	N	<input type="checkbox"/>	<input checked="" type="checkbox"/>	⌘	
Y	N						
<input type="checkbox"/>	<input checked="" type="checkbox"/>						
	<table border="1" style="display: inline-table; border-collapse: collapse;"> <tr> <td style="width: 20px; text-align: center;">Y</td> <td style="width: 20px; text-align: center;">N</td> </tr> <tr> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> </tr> </table> O&M Specifications	Y	N	<input type="checkbox"/>	<input checked="" type="checkbox"/>	⌘	
Y	N						
<input type="checkbox"/>	<input checked="" type="checkbox"/>						
Other comments:	⌘						

Change in Clause 1

1 Scope

The present document specifies the Common Management Information Protocol (CMIP) Solution Set (SS) for the CN Network Resource Integration Reference Point (IRP): Network Resource Model defined in 3GPP TS 32.632 [4]. In detail:

- Clause 4 contains an introduction to some concepts that are the base for some specific aspects of the CMIP interfaces.
- Clause 5 contains the GDMO definitions for the Alarm Management over the CMIP interfaces
- Clause 6 contains the ASN.1 definitions supporting the GDMO definitions provided in clause 5.

This Solution Set specification is related to 3GPP TS 32.632 V6.10.X [4].

End of change in Clause 1

Change in Clause 4.2

4.2 Mapping

The semantic of the CN Network Resource Model is defined in 3GPP TS 32.632 [4]. The specification of the information object classes defined there is independent of any implementation technology and protocol. This clause maps these technology and protocol independent definitions onto the equivalencies of the CMIP Solution Set of the UTRAN Network Resource IRP.

4.2.1 Mapping of Information Object Classes

Table 1 maps the Information Object Classes (IOCs) defined in the CN Network Resource Model onto the equivalent IOCs of the CMIP Solution Set.

Table 1: Mapping of IOCs

IS IOC	CMIP SS MOC
AucFunction	aucFunction
ALink	aLink
IucsLink	iucsLink
IupsLink	iupsLink
IubcLink	iubcLink
BgFunction	bgFunction
EirFunction	eirFunction
GbLink	gbLink
GgsnFunction	ggsnFunction
GmscFunction	gmscFunction
HlrFunction	hlrFunction
MscServerFunction	mscServerFunction
GmscServerFunction	gmscServerFunction
SgsnFunction	sgsnFunction
SmsGmscFunction	smsGmscFunction
SmsIwmscFunction	smsIwmscFunction
VlrFunction	vlrFunction
SmlcFunction	smlcFunction
GmlcFunction	gmlcFunction
ScfFunction	scfFunction
SrfFunction	srfFunction
CbcFunction	cbcFunction
CgffFunction	cqfFunction
CsMgwFunction	csMgwFunction
ImsMgwFunction	ImsMgwFunction
GmscFunction	gmscFunction
IwffFunction	iwfFunction
MnpSrfFunction	mnpSrfFunction
NpdbFunction	npdbFunction
R SgwFunction	rSgwFunction
SsfFunction	ssfFunction
BsFunction	bsFunction
ScscfFunction	scscfFunction
PcscfFunction	pcscfFunction
IcscfFunction	icscfFunction
SlfFunction	slfFunction
BqcfFunction	bqcfFunction
MrfcFunction	mrfcFunction
AsFunction	asFunction
MqcfFunction	mqcfFunction
MrfpFunction	mrfpFunction

4.2.2 Mapping of Information Object Class Attributes

...

4.2.2.31 Attribute Mapping of the IOC *CsMgwFunction*

Table 32: Attribute mapping of the IOC *CsMgwFunction*

IS Attribute	CMIP SS Attribute	Support Qualifier	Read Qualifier	Write Qualifier
csMgwFunctionId	CsmgwFunctionId	M	M	--
userLabel	userLabel (ITU-T Rec. M.3100 [9])	M	M	M
csMgwFunction- mscServerFunction	csMgwFunction- mscServerFunction	M	M	--
csMgwFunction- iucsLink	csMgwFunction- iucsLink	M	M	--
csMgwFunction- ALink	csMgwFunction- ALink	M	M	--

4.2.2.32 Attribute Mapping of the IOC *ScscfFunction*

Table 33: Attribute mapping of the IOC *ScscfFunction*

<u>IS Attribute</u>	<u>CMIP SS Attribute</u>	<u>Support Qualifier</u>	<u>Read Qualifier</u>	<u>Write Qualifier</u>
<u>scscfFunctionId</u>	<u>ScscfFunctionId</u>	<u>M</u>	<u>M</u>	<u>--</u>
<u>userLabel</u>	<u>userLabel (ITU-T Rec. M.3100 [9])</u>	<u>M</u>	<u>M</u>	<u>M</u>

4.2.2.33 Attribute Mapping of the IOC *PcscfFunction*

Table 34: Attribute mapping of the IOC *PcscfFunction*

<u>IS Attribute</u>	<u>CMIP SS Attribute</u>	<u>Support Qualifier</u>	<u>Read Qualifier</u>	<u>Write Qualifier</u>
<u>pcscfFunctionId</u>	<u>pcscfFunctionId</u>	<u>M</u>	<u>M</u>	<u>--</u>
<u>userLabel</u>	<u>userLabel (ITU-T Rec. M.3100 [9])</u>	<u>M</u>	<u>M</u>	<u>M</u>

4.2.2.34 Attribute Mapping of the IOC *IcscfFunction*

Table 35: Attribute mapping of the IOC *IcscfFunction*

<u>IS Attribute</u>	<u>CMIP SS Attribute</u>	<u>Support Qualifier</u>	<u>Read Qualifier</u>	<u>Write Qualifier</u>
<u>icscfFunctionId</u>	<u>icscfFunctionId</u>	<u>M</u>	<u>M</u>	<u>--</u>
<u>userLabel</u>	<u>userLabel (ITU-T Rec. M.3100 [9])</u>	<u>M</u>	<u>M</u>	<u>M</u>

4.2.2.35 Attribute Mapping of the IOC *SifFunction*

Table 36: Attribute mapping of the IOC *SifFunction*

<u>IS Attribute</u>	<u>CMIP SS Attribute</u>	<u>Support Qualifier</u>	<u>Read Qualifier</u>	<u>Write Qualifier</u>
<u>sifFunctionId</u>	<u>sifFunctionId</u>	<u>M</u>	<u>M</u>	<u>--</u>
<u>userLabel</u>	<u>userLabel (ITU-T Rec. M.3100 [9])</u>	<u>M</u>	<u>M</u>	<u>M</u>

4.2.2.36 Attribute Mapping of the IOC *BgcfFunction*

Table 37: Attribute mapping of the IOC *BgcfFunction*

<u>IS Attribute</u>	<u>CMIP SS Attribute</u>	<u>Support Qualifier</u>	<u>Read Qualifier</u>	<u>Write Qualifier</u>
<u>bgcfFunctionId</u>	<u>bgcfFunctionId</u>	<u>M</u>	<u>M</u>	<u>--</u>
<u>userLabel</u>	<u>userLabel (ITU-T Rec. M.3100 [9])</u>	<u>M</u>	<u>M</u>	<u>M</u>

4.2.2.37 Attribute Mapping of the IOC *MrfcFunction*

Table 38: Attribute mapping of the IOC *MrfcFunction*

<u>IS Attribute</u>	<u>CMIP SS Attribute</u>	<u>Support Qualifier</u>	<u>Read Qualifier</u>	<u>Write Qualifier</u>
<u>mrfcFunctionId</u>	<u>mrfcFunctionId</u>	<u>M</u>	<u>M</u>	<u>--</u>
<u>userLabel</u>	<u>userLabel (ITU-T Rec. M.3100 [9])</u>	<u>M</u>	<u>M</u>	<u>M</u>

4.2.2.38 Attribute Mapping of the IOC *AsFunction*

Table 39: Attribute mapping of the IOC *AsFunction*

<u>IS Attribute</u>	<u>CMIP SS Attribute</u>	<u>Support Qualifier</u>	<u>Read Qualifier</u>	<u>Write Qualifier</u>
<u>asFunctionId</u>	<u>asFunctionId</u>	<u>M</u>	<u>M</u>	<u>--</u>
<u>userLabel</u>	<u>userLabel (ITU-T Rec. M.3100 [9])</u>	<u>M</u>	<u>M</u>	<u>M</u>

4.2.2.39 Attribute Mapping of the IOC *MrfpFunction*

Table 40: Attribute mapping of the IOC *MgscfFunction*

<u>IS Attribute</u>	<u>CMIP SS Attribute</u>	<u>Support Qualifier</u>	<u>Read Qualifier</u>	<u>Write Qualifier</u>
<u>mrfpFunctionId</u>	<u>mrfpFunctionId</u>	<u>M</u>	<u>M</u>	<u>--</u>
<u>userLabel</u>	<u>userLabel (ITU-T Rec. M.3100 [9])</u>	<u>M</u>	<u>M</u>	<u>M</u>

4.2.2.37 Attribute Mapping of the IOC *MrfcFunction*

Table 38: Attribute mapping of the IOC *MrfcFunction*

<u>IS Attribute</u>	<u>CMIP SS Attribute</u>	<u>Support Qualifier</u>	<u>Read Qualifier</u>	<u>Write Qualifier</u>
<u>mrfcFunctionId</u>	<u>mrfcFunctionId</u>	<u>M</u>	<u>M</u>	<u>--</u>
<u>userLabel</u>	<u>userLabel (ITU-T Rec. M.3100 [9])</u>	<u>M</u>	<u>M</u>	<u>M</u>

4.2.3 Mapping of Name Containments

Table 33: Mapping of name containments

IS Name Containment	CMIP SS Name Binding
smlcFunction - managedElement	smlcFunction-managedElement
gmlcFunction - managedElement	gmlcFunction-managedElement
scfFunction - managedElement	scfFunction-managedElement
srfFunction - managedElement	srfFunction-managedElement
cbcFunction - managedElement	cbcFunction-managedElement
cbcFunction - managedElement	cbcFunction-managedElement
cgfFunction - managedElement	cgfFunction-managedElement
imsMgwFunction - managedElement	imsMgwFunction-managedElement
gmscFunction - managedElement	gmscFunction-managedElement
iwfFunction - managedElement	iwfFunction-managedElement
mnpSrfFunction - managedElement	mnpSrfFunction-managedElement
npdbFunction - managedElement	npdbFunction-managedElement
rSgwFunction - managedElement	rSgwFunction-managedElement
ssfFunction - managedElement	ssfFunction-managedElement
bsFunction - managedElement	bsFunction-managedElement
bsFunction - managedElement	bsFunction-managedElement
bsFunction - managedElement	bsFunction-managedElement
aucFunction - managedElement	aucFunction-managedElement
bgFunction - managedElement	bgFunction-managedElement
eirFunction - managedElement	eirFunction-managedElement
ggsnFunction - managedElement	ggsnFunction-managedElement
hlrFunction - managedElement	hlrFunction-managedElement
mscServerFunction - managedElement	mscServerFunction-managedElement
vlrFunction - managedElement	vlrFunction-managedElement
sgsnFunction - managedElement	sgsnFunction-managedElement
smsGmscFunction - managedElement	smsGmscFunction-managedElement
smsGmscFunction - managedElement	smsGmscFunction-managedElement
smslwmscFunction - managedElement	smslwmscFunction-managedElement
gbLink - managedElement	gbLink-managedElement
aLink - managedElement	aLink-managedElement
iucsLink - managedElement	iucsLink-managedElement
iupsLink - managedElement	iupsLink-managedElement
iubcLink - managedElement	iubcLink-managedElement
gmscServerFunction - managedElement	gmscServerFunction-managedElement
csMgwFunction - managedElement	csMgwFunction-managedElement
<u>scscfFunction - managedElement</u>	<u>scscfFunction-managedElement</u>
<u>pcscfFunction - managedElement</u>	<u>pcscfFunction-managedElement</u>
<u>icscfFunction - managedElement</u>	<u>icscfFunction-managedElement</u>
<u>slfFunction - managedElement</u>	<u>slfFunction-managedElement</u>
<u>bgcfFunction - managedElement</u>	<u>bgcfFunction-managedElement</u>
<u>mrfcFunction - managedElement</u>	<u>mrfcFunction-managedElement</u>
<u>asFunction - managedElement</u>	<u>asFunction-managedElement</u>
<u>mqcfFunction - managedElement</u>	<u>mqcfFunction-managedElement</u>
<u>mrfpFunction - managedElement</u>	<u>mrfpFunction-managedElement</u>

End of Change in Clause 4.2

Change in Clause 5

-- 5 GDMO Definitions

-- 5.1 Information Object Classes (IOCs)

-- 5.1.1 smlcFunction

```
smlcFunction MANAGED OBJECT CLASS
DERIVED FROM
  "3GPP TS 32.624": managedFunction;
CHARACTERIZED BY
  smlcFunctionBasicPackage,
  "3GPP TS 32.111-4": x721AlarmNotificationsPackage;
CONDITIONAL PACKAGES
  "Rec. M.3100: 1995":createDeleteNotificationsPackage
  PRESENT IF
    "the objectCreation and the objectDeletion notifications defined in
    ITU-T Rec. X.721 are supported by an instance of this class.",
  "Rec. M.3100: 1995":attributeValueChangeNotificationPackage
  PRESENT IF
    "the attributeValueChange notification defined in ITU-T Rec. X.721
    is supported by an instance of this class.";
REGISTERED AS {ts32-634ObjectClass 1};
```

-- 5.1.2 gmlcFunction

```
gmlcFunction MANAGED OBJECT CLASS
DERIVED FROM
  "3GPP TS 32.624": managedFunction;
CHARACTERIZED BY
  gmlcFunctionBasicPackage,
  "3GPP TS 32.111-4": x721AlarmNotificationsPackage;
CONDITIONAL PACKAGES
  "Rec. M.3100: 1995":createDeleteNotificationsPackage
  PRESENT IF
    "the objectCreation and the objectDeletion notifications defined in
    ITU-T Rec. X.721 are supported by an instance of this class.",
  "Rec. M.3100: 1995":attributeValueChangeNotificationPackage
  PRESENT IF
    "the attributeValueChange notification defined in ITU-T Rec. X.721
    is supported by an instance of this class.";
REGISTERED AS {ts32-634ObjectClass 2};
```

-- 5.1.3 scfFunction

```
scfFunction MANAGED OBJECT CLASS
DERIVED FROM
  "3GPP TS 32.624": managedFunction;
CHARACTERIZED BY
  scfFunctionBasicPackage,
  "3GPP TS 32.111-4": x721AlarmNotificationsPackage;
CONDITIONAL PACKAGES
  "Rec. M.3100: 1995":createDeleteNotificationsPackage
  PRESENT IF
    "the objectCreation and the objectDeletion notifications defined in
    ITU-T Rec. X.721 are supported by an instance of this class.",
  "Rec. M.3100: 1995":attributeValueChangeNotificationPackage
  PRESENT IF
    "the attributeValueChange notification defined in ITU-T Rec. X.721
    is supported by an instance of this class.";
REGISTERED AS {ts32-634ObjectClass 3};
```

-- 5.1.4 srfFunction

```
srfFunction MANAGED OBJECT CLASS
DERIVED FROM
  "3GPP TS 32.624": managedFunction;
CHARACTERIZED BY
  srfFunctionBasicPackage,
  "3GPP TS 32.111-4": x721AlarmNotificationsPackage;
```

```

CONDITIONAL PACKAGES
"Rec. M.3100: 1995":createDeleteNotificationsPackage
  PRESENT IF
    "the objectCreation and the objectDeletion notifications defined in
      ITU-T Rec. X.721 are supported by an instance of this class.",
"Rec. M.3100: 1995":attributeValueChangeNotificationPackage
  PRESENT IF
    "the attributeValueChange notification defined in ITU-T Rec. X.721
      is supported by an instance of this class.";
REGISTERED AS {ts32-634ObjectClass 4};

```

-- 5.1.5 cbcFunction

```

cbcFunction MANAGED OBJECT CLASS
DERIVED FROM
  "3GPP TS 32.624": managedFunction;
CHARACTERIZED BY
  cbcFunctionBasicPackage,
  "3GPP TS 32.111-4": x721AlarmNotificationsPackage;
CONDITIONAL PACKAGES
"Rec. M.3100: 1995":createDeleteNotificationsPackage
  PRESENT IF
    "the objectCreation and the objectDeletion notifications defined in
      ITU-T Rec. X.721 are supported by an instance of this class.",
"Rec. M.3100: 1995":attributeValueChangeNotificationPackage
  PRESENT IF
    "the attributeValueChange notification defined in ITU-T Rec. X.721
      is supported by an instance of this class.";
REGISTERED AS {ts32-634ObjectClass 5};

```

-- 5.1.6 cgfFunction

```

cgfFunction MANAGED OBJECT CLASS
DERIVED FROM
  "3GPP TS 32.624": managedFunction;
CHARACTERIZED BY
  cgfFunctionBasicPackage,
  "3GPP TS 32.111-4": x721AlarmNotificationsPackage;
CONDITIONAL PACKAGES
"Rec. M.3100: 1995":createDeleteNotificationsPackage
  PRESENT IF
    "the objectCreation and the objectDeletion notifications defined in
      ITU-T Rec. X.721 are supported by an instance of this class.",
"Rec. M.3100: 1995":attributeValueChangeNotificationPackage
  PRESENT IF
    "the attributeValueChange notification defined in ITU-T Rec. X.721
      is supported by an instance of this class.";
REGISTERED AS {ts32-634ObjectClass 6};

```

-- 5.1.7 imsMgwFunction

```

imsMgwFunction MANAGED OBJECT CLASS
DERIVED FROM
  "3GPP TS 32.624": managedFunction;
CHARACTERIZED BY
  imsMgwFunctionBasicPackage,
  "3GPP TS 32.111-4": x721AlarmNotificationsPackage;
CONDITIONAL PACKAGES
"Rec. M.3100: 1995":createDeleteNotificationsPackage
  PRESENT IF
    "the objectCreation and the objectDeletion notifications defined in
      ITU-T Rec. X.721 are supported by an instance of this class.",
"Rec. M.3100: 1995":attributeValueChangeNotificationPackage
  PRESENT IF
    "the attributeValueChange notification defined in ITU-T Rec. X.721
      is supported by an instance of this class.";
REGISTERED AS {ts32-634ObjectClass 70503};

```

-- 5.1.8 gmscFunction

```

gmscFunction MANAGED OBJECT CLASS
DERIVED FROM
  "3GPP TS 32.624": managedFunction;

```

```

CHARACTERIZED BY
    gmscFunctionBasicPackage,
    "3GPP TS 32.111-4": x721AlarmNotificationsPackage;
CONDITIONAL PACKAGES
    "Rec. M.3100: 1995":createDeleteNotificationsPackage
    PRESENT IF
        "the objectCreation and the objectDeletion notifications defined in
        ITU-T Rec. X.721 are supported by an instance of this class.",
    "Rec. M.3100: 1995":attributeValueChangeNotificationPackage
    PRESENT IF
        "the attributeValueChange notification defined in ITU-T Rec. X.721
        is supported by an instance of this class.";
REGISTERED AS {ts32-634ObjectClass 8};

```

-- 5.1.9 iwFunction

```

iwFunction MANAGED OBJECT CLASS
DERIVED FROM
    "3GPP TS 32.624": managedFunction;
CHARACTERIZED BY
    iwFunctionBasicPackage,
    "3GPP TS 32.111-4": x721AlarmNotificationsPackage;
CONDITIONAL PACKAGES
    "Rec. M.3100: 1995":createDeleteNotificationsPackage
    PRESENT IF
        "the objectCreation and the objectDeletion notifications defined in
        ITU-T Rec. X.721 are supported by an instance of this class.",
    "Rec. M.3100: 1995":attributeValueChangeNotificationPackage
    PRESENT IF
        "the attributeValueChange notification defined in ITU-T Rec. X.721
        is supported by an instance of this class.";
REGISTERED AS {ts32-634ObjectClass 9};

```

-- 5.1.10 mnpSrfFunction

```

mnpSrfFunction MANAGED OBJECT CLASS
DERIVED FROM
    "3GPP TS 32.624": managedFunction;
CHARACTERIZED BY
    mnpSrfFunctionBasicPackage,
    "3GPP TS 32.111-4": x721AlarmNotificationsPackage;
CONDITIONAL PACKAGES
    "Rec. M.3100: 1995":createDeleteNotificationsPackage
    PRESENT IF
        "the objectCreation and the objectDeletion notifications defined in
        ITU-T Rec. X.721 are supported by an instance of this class.",
    "Rec. M.3100: 1995":attributeValueChangeNotificationPackage
    PRESENT IF
        "the attributeValueChange notification defined in ITU-T Rec. X.721
        is supported by an instance of this class.";
REGISTERED AS {ts32-634ObjectClass 10};

```

-- 5.1.11 npdbFunction

```

npdbFunction MANAGED OBJECT CLASS
DERIVED FROM
    "3GPP TS 32.624": managedFunction;
CHARACTERIZED BY
    npdbFunctionBasicPackage,
    "3GPP TS 32.111-4": x721AlarmNotificationsPackage;
CONDITIONAL PACKAGES
    "Rec. M.3100: 1995":createDeleteNotificationsPackage
    PRESENT IF
        "the objectCreation and the objectDeletion notifications defined in
        ITU-T Rec. X.721 are supported by an instance of this class.",
    "Rec. M.3100: 1995":attributeValueChangeNotificationPackage
    PRESENT IF
        "the attributeValueChange notification defined in ITU-T Rec. X.721
        is supported by an instance of this class.";
REGISTERED AS {ts32-634ObjectClass 11};

```

-- 5.1.12 rSgwFunction

```
rSgwFunction MANAGED OBJECT CLASS
DERIVED FROM
  "3GPP TS 32.624": managedFunction;
CHARACTERIZED BY
  rSgwFunctionBasicPackage,
  "3GPP TS 32.111-4": x721AlarmNotificationsPackage;
CONDITIONAL PACKAGES
  "Rec. M.3100: 1995":createDeleteNotificationsPackage
    PRESENT IF
      "the objectCreation and the objectDeletion notifications defined in
      ITU-T Rec. X.721 are supported by an instance of this class.",
  "Rec. M.3100: 1995":attributeValueChangeNotificationPackage
    PRESENT IF
      "the attributeValueChange notification defined in ITU-T Rec. X.721
      is supported by an instance of this class.";
REGISTERED AS {ts32-634ObjectClass 12};
```

-- 5.1.13 ssfFunction

```
ssfFunction MANAGED OBJECT CLASS
DERIVED FROM
  "3GPP TS 32.624": managedFunction;
CHARACTERIZED BY
  ssfFunctionBasicPackage,
  "3GPP TS 32.111-4": x721AlarmNotificationsPackage;
CONDITIONAL PACKAGES
  "Rec. M.3100: 1995":createDeleteNotificationsPackage
    PRESENT IF
      "the objectCreation and the objectDeletion notifications defined in
      ITU-T Rec. X.721 are supported by an instance of this class.",
  "Rec. M.3100: 1995":attributeValueChangeNotificationPackage
    PRESENT IF
      "the attributeValueChange notification defined in ITU-T Rec. X.721
      is supported by an instance of this class.";
REGISTERED AS {ts32-634ObjectClass 13};
```

-- 5.1.14 bsFunction

```
bsFunction MANAGED OBJECT CLASS
DERIVED FROM
  "3GPP TS 32.624": managedFunction;
CHARACTERIZED BY
  bsFunctionBasicPackage,
  "3GPP TS 32.111-4": x721AlarmNotificationsPackage;
CONDITIONAL PACKAGES
  "Rec. M.3100: 1995":createDeleteNotificationsPackage
    PRESENT IF
      "the objectCreation and the objectDeletion notifications defined in
      ITU-T Rec. X.721 are supported by an instance of this class.",
  "Rec. M.3100: 1995":attributeValueChangeNotificationPackage
    PRESENT IF
      "the attributeValueChange notification defined in ITU-T Rec. X.721
      is supported by an instance of this class.";
REGISTERED AS {ts32-634ObjectClass 14};
```

-- 5.1.15 aucFunction

```
aucFunction MANAGED OBJECT CLASS
DERIVED FROM
  "3GPP TS 32.624": managedFunction;
CHARACTERIZED BY
  aucFunctionBasicPackage,
  "3GPP TS 32.111-4": x721AlarmNotificationsPackage;
CONDITIONAL PACKAGES
  "Rec. M.3100: 1995":createDeleteNotificationsPackage
    PRESENT IF
      "the objectCreation and the objectDeletion notifications defined in
      ITU-T Rec. X.721 are supported by an instance of this class.",
  "Rec. M.3100: 1995":attributeValueChangeNotificationPackage
    PRESENT IF
      "the attributeValueChange notification defined in ITU-T Rec. X.721
```

is supported by an instance of this class."
REGISTERED AS {ts32-634ObjectClass 15};

-- 5.1.16 bgFunction

```
bgFunction MANAGED OBJECT CLASS
DERIVED FROM
    "3GPP TS 32.624": managedFunction;
CHARACTERIZED BY
    bgFunctionBasicPackage,
    "3GPP TS 32.111-4": x721AlarmNotificationsPackage;
CONDITIONAL PACKAGES
    "Rec. M.3100: 1995":createDeleteNotificationsPackage
PRESENT IF
    "the objectCreation and the objectDeletion notifications defined in
    ITU-T Rec. X.721 are supported by an instance of this class.",
    "Rec. M.3100: 1995":attributeValueChangeNotificationPackage
PRESENT IF
    "the attributeValueChange notification defined in ITU-T Rec. X.721
    is supported by an instance of this class.";
REGISTERED AS {ts32-634ObjectClass 16};
```

-- 5.1.17 eirFunction

```
eirFunction MANAGED OBJECT CLASS
DERIVED FROM
    "3GPP TS 32.624": managedFunction;
CHARACTERIZED BY
    eirFunctionBasicPackage,
    "3GPP TS 32.111-4": x721AlarmNotificationsPackage;
CONDITIONAL PACKAGES
    "Rec. M.3100: 1995":createDeleteNotificationsPackage
PRESENT IF
    "the objectCreation and the objectDeletion notifications defined in
    ITU-T Rec. X.721 are supported by an instance of this class.",
    "Rec. M.3100: 1995":attributeValueChangeNotificationPackage
PRESENT IF
    "the attributeValueChange notification defined in ITU-T Rec. X.721
    is supported by an instance of this class.";
REGISTERED AS {ts32-634ObjectClass 17};
```

-- 5.1.18 ggsnFunction

```
ggsnFunction MANAGED OBJECT CLASS
DERIVED FROM
    "3GPP TS 32.624": managedFunction;
CHARACTERIZED BY
    ggsnFunctionBasicPackage,
    "3GPP TS 32.111-4": x721AlarmNotificationsPackage;
CONDITIONAL PACKAGES
    "Rec. M.3100: 1995":createDeleteNotificationsPackage
PRESENT IF
    "the objectCreation and the objectDeletion notifications defined in
    ITU-T Rec. X.721 are supported by an instance of this class.",
    "Rec. M.3100: 1995":attributeValueChangeNotificationPackage
PRESENT IF
    "the attributeValueChange notification defined in ITU-T Rec. X.721
    is supported by an instance of this class.";
REGISTERED AS {ts32-634ObjectClass 18};
```

-- 5.1.19 hlrFunction

```
hlrFunction MANAGED OBJECT CLASS
DERIVED FROM
    "3GPP TS 32.624": managedFunction;
CHARACTERIZED BY
    hlrFunctionBasicPackage,
    "3GPP TS 32.111-4": x721AlarmNotificationsPackage;
CONDITIONAL PACKAGES
    "Rec. M.3100: 1995":createDeleteNotificationsPackage
PRESENT IF
    "the objectCreation and the objectDeletion notifications defined in
    ITU-T Rec. X.721 are supported by an instance of this class.",
```

```
"Rec. M.3100: 1995":attributeValueChangeNotificationPackage
  PRESENT IF
    "the attributeValueChange notification defined in ITU-T Rec. X.721
      is supported by an instance of this class.";
REGISTERED AS {ts32-634ObjectClass 19};
```

-- 5.1.20 mscServerFunction

```
mscServerFunction MANAGED OBJECT CLASS
  DERIVED FROM
    "3GPP TS 32.624": managedFunction;
  CHARACTERIZED BY
    mscServerFunctionBasicPackage,
    mscServerFunctionAssociationPackage,
    "3GPP TS 32.111-4": x721AlarmNotificationsPackage;
  CONDITIONAL PACKAGES
    "Rec. M.3100: 1995":createDeleteNotificationsPackage
      PRESENT IF
        "the objectCreation and the objectDeletion notifications defined in
          ITU-T Rec. X.721 are supported by an instance of this class.",
    "Rec. M.3100: 1995":attributeValueChangeNotificationPackage
      PRESENT IF
        "the attributeValueChange notification defined in ITU-T Rec. X.721
          is supported by an instance of this class.";
REGISTERED AS {ts32-634ObjectClass 20};
```

-- 5.1.21 sgsnFunction

```
sgsnFunction MANAGED OBJECT CLASS
  DERIVED FROM
    "3GPP TS 32.624": managedFunction;
  CHARACTERIZED BY
    sgsnFunctionBasicPackage,
    sgsnFunctionAssociationPackage,
    "3GPP TS 32.111-4": x721AlarmNotificationsPackage;
  CONDITIONAL PACKAGES
    "Rec. M.3100: 1995":createDeleteNotificationsPackage
      PRESENT IF
        "the objectCreation and the objectDeletion notifications defined in
          ITU-T Rec. X.721 are supported by an instance of this class.",
    "Rec. M.3100: 1995":attributeValueChangeNotificationPackage
      PRESENT IF
        "the attributeValueChange notification defined in ITU-T Rec. X.721
          is supported by an instance of this class.";
REGISTERED AS {ts32-634ObjectClass 21};
```

-- 5.1.22 smsGsmcFunction

```
smsGsmcFunction MANAGED OBJECT CLASS
  DERIVED FROM
    "3GPP TS 32.624": managedFunction;
  CHARACTERIZED BY
    smsGsmcFunctionBasicPackage,
    "3GPP TS 32.111-4": x721AlarmNotificationsPackage;
  CONDITIONAL PACKAGES
    "Rec. M.3100: 1995":createDeleteNotificationsPackage
      PRESENT IF
        "the objectCreation and the objectDeletion notifications defined in
          ITU-T Rec. X.721 are supported by an instance of this class.",
    "Rec. M.3100: 1995":attributeValueChangeNotificationPackage
      PRESENT IF
        "the attributeValueChange notification defined in ITU-T Rec. X.721
          is supported by an instance of this class.";
REGISTERED AS {ts32-634ObjectClass 22};
```

-- 5.1.23 smsIwmscFunction

```
smsIwmscFunction MANAGED OBJECT CLASS
  DERIVED FROM
    "3GPP TS 32.624": managedFunction;
  CHARACTERIZED BY
    smsIwmscFunctionBasicPackage,
    "3GPP TS 32.111-4": x721AlarmNotificationsPackage;
```

CONDITIONAL PACKAGES

```
"Rec. M.3100: 1995":createDeleteNotificationsPackage
  PRESENT IF
    "the objectCreation and the objectDeletion notifications defined in
      ITU-T Rec. X.721 are supported by an instance of this class.",
"Rec. M.3100: 1995":attributeValueChangeNotificationPackage
  PRESENT IF
    "the attributeValueChange notification defined in ITU-T Rec. X.721
      is supported by an instance of this class.;"
```

```
REGISTERED AS {ts32-634ObjectClass 23};
```

-- 5.1.24 vlrFunction

```
vlrFunction MANAGED OBJECT CLASS
```

DERIVED FROM

```
"3GPP TS 32.624": managedFunction;
```

CHARACTERIZED BY

```
vlrFunctionBasicPackage,
"3GPP TS 32.111-4": x721AlarmNotificationsPackage;
```

CONDITIONAL PACKAGES

```
"Rec. M.3100: 1995":createDeleteNotificationsPackage
  PRESENT IF
    "the objectCreation and the objectDeletion notifications defined in
      ITU-T Rec. X.721 are supported by an instance of this class.",
"Rec. M.3100: 1995":attributeValueChangeNotificationPackage
  PRESENT IF
    "the attributeValueChange notification defined in ITU-T Rec. X.721
      is supported by an instance of this class.;"
```

```
REGISTERED AS {ts32-634ObjectClass 24};
```

-- 5.1.25 gbLink

```
gbLink MANAGED OBJECT CLASS
```

DERIVED FROM

```
"3GPP TS 32.624": managedFunction;
```

CHARACTERIZED BY

```
gbLinkBasicPackage,
gbLinkAssociationPackage,
"3GPP TS 32.111-4": x721AlarmNotificationsPackage;
```

CONDITIONAL PACKAGES

```
"Rec. M.3100: 1995":createDeleteNotificationsPackage
  PRESENT IF
    "the objectCreation and the objectDeletion notifications defined in
      ITU-T Rec. X.721 are supported by an instance of this class.",
"Rec. M.3100: 1995":attributeValueChangeNotificationPackage
  PRESENT IF
    "the attributeValueChange notification defined in ITU-T Rec. X.721
      is supported by an instance of this class.;"
```

```
REGISTERED AS {ts32-634ObjectClass 25};
```

-- 5.1.26 aLink

```
aLink MANAGED OBJECT CLASS
```

DERIVED FROM

```
"3GPP TS 32.624": managedFunction;
```

CHARACTERIZED BY

```
aLinkBasicPackage,
aLinkAssociationPackage,
"3GPP TS 32.111-4": x721AlarmNotificationsPackage;
```

CONDITIONAL PACKAGES

```
"Rec. M.3100: 1995":createDeleteNotificationsPackage
  PRESENT IF
    "the objectCreation and the objectDeletion notifications defined in
      ITU-T Rec. X.721 are supported by an instance of this class.",
"Rec. M.3100: 1995":attributeValueChangeNotificationPackage
  PRESENT IF
    "the attributeValueChange notification defined in ITU-T Rec. X.721
      is supported by an instance of this class.;"
```

```
REGISTERED AS {ts32-634ObjectClass 26};
```

-- 5.1.27 iucsLink

```
iucsLink MANAGED OBJECT CLASS
```

```

DERIVED FROM
    "3GPP TS 32.624": managedFunction;
CHARACTERIZED BY
    iucsLinkBasicPackage,
    iucsLinkAssociationPackage,
    "3GPP TS 32.111-4": x721AlarmNotificationsPackage;
CONDITIONAL PACKAGES
    "Rec. M.3100: 1995":createDeleteNotificationsPackage
        PRESENT IF
            "the objectCreation and the objectDeletion notifications defined in
            ITU-T Rec. X.721 are supported by an instance of this class.",
    "Rec. M.3100: 1995":attributeValueChangeNotificationPackage
        PRESENT IF
            "the attributeValueChange notification defined in ITU-T Rec. X.721
            is supported by an instance of this class.";
REGISTERED AS {ts32-634ObjectClass 27};

```

-- 5.1.28 iupsLink

```

iupsLink MANAGED OBJECT CLASS
DERIVED FROM
    "3GPP TS 32.624": managedFunction;
CHARACTERIZED BY
    iupsLinkBasicPackage,
    iupsLinkAssociationPackage,
    "3GPP TS 32.111-4": x721AlarmNotificationsPackage;
CONDITIONAL PACKAGES
    "Rec. M.3100: 1995":createDeleteNotificationsPackage
        PRESENT IF
            "the objectCreation and the objectDeletion notifications defined in
            ITU-T Rec. X.721 are supported by an instance of this class.",
    "Rec. M.3100: 1995":attributeValueChangeNotificationPackage
        PRESENT IF
            "the attributeValueChange notification defined in ITU-T Rec. X.721
            is supported by an instance of this class.";
REGISTERED AS {ts32-634ObjectClass 28};

```

-- 5.1.29 iubcLink

```

iubcLink MANAGED OBJECT CLASS
DERIVED FROM
    "3GPP TS 32.624": managedFunction;
CHARACTERIZED BY
    iubcLinkBasicPackage,
    iubcLinkAssociationPackage,
    "3GPP TS 32.111-4": x721AlarmNotificationsPackage;
CONDITIONAL PACKAGES
    "Rec. M.3100: 1995":createDeleteNotificationsPackage
        PRESENT IF
            "the objectCreation and the objectDeletion notifications defined in
            ITU-T Rec. X.721 are supported by an instance of this class.",
    "Rec. M.3100: 1995":attributeValueChangeNotificationPackage
        PRESENT IF
            "the attributeValueChange notification defined in ITU-T Rec. X.721
            is supported by an instance of this class.";
REGISTERED AS {ts32-634ObjectClass 29};

```

-- 5.1.30 csMgwFunction

```

csMgwFunction MANAGED OBJECT CLASS
DERIVED FROM
    "3GPP TS 32.624": managedFunction;
CHARACTERIZED BY
    csMgwFunctionBasicPackage,
    csMgwFunctionAssociationPackage,
    "3GPP TS 32.111-4": x721AlarmNotificationsPackage;
CONDITIONAL PACKAGES
    "Rec. M.3100: 1995":createDeleteNotificationsPackage
        PRESENT IF
            "the objectCreation and the objectDeletion notifications defined in
            ITU-T Rec. X.721 are supported by an instance of this class.",
    "Rec. M.3100: 1995":attributeValueChangeNotificationPackage
        PRESENT IF
            "the attributeValueChange notification defined in ITU-T Rec. X.721

```


is supported by an instance of this class."
REGISTERED AS {ts32-634ObjectClass 30};

-- 5.1.31 gmscServerFunction

gmscServerFunction **MANAGED OBJECT CLASS**
DERIVED FROM
"3GPP TS 32.624": managedFunction;
CHARACTERIZED BY
gmscServerFunctionBasicPackage,
"3GPP TS 32.111-4": x721AlarmNotificationsPackage;
CONDITIONAL PACKAGES
"Rec. M.3100: 1995":createDeleteNotificationsPackage
PRESENT IF
"the objectCreation and the objectDeletion notifications defined in
ITU-T Rec. X.721 are supported by an instance of this class.",
"Rec. M.3100: 1995":attributeValueChangeNotificationPackage
PRESENT IF
"the attributeValueChange notification defined in ITU-T Rec. X.721
is supported by an instance of this class."
REGISTERED AS {ts32-634ObjectClass 31};

-- 5.1.32 scscfFunction

scscfFunction **MANAGED OBJECT CLASS**
DERIVED FROM
"3GPP TS 32.624": managedFunction;
CHARACTERIZED BY
scscfFunctionBasicPackage,
"3GPP TS 32.111-4": x721AlarmNotificationsPackage;
CONDITIONAL PACKAGES
"Rec. M.3100: 1995":createDeleteNotificationsPackage
PRESENT IF
"the objectCreation and the objectDeletion notifications defined in
ITU-T Rec. X.721 are supported by an instance of this class.",
"Rec. M.3100: 1995":attributeValueChangeNotificationPackage
PRESENT IF
"the attributeValueChange notification defined in ITU-T Rec. X.721
is supported by an instance of this class."
REGISTERED AS {ts32-634ObjectClass 32};

-- 5.1.33 pcscfFunction

pcscfFunction **MANAGED OBJECT CLASS**
DERIVED FROM
"3GPP TS 32.624": managedFunction;
CHARACTERIZED BY
pcscfFunctionBasicPackage,
"3GPP TS 32.111-4": x721AlarmNotificationsPackage;
CONDITIONAL PACKAGES
"Rec. M.3100: 1995":createDeleteNotificationsPackage
PRESENT IF
"the objectCreation and the objectDeletion notifications defined in
ITU-T Rec. X.721 are supported by an instance of this class.",
"Rec. M.3100: 1995":attributeValueChangeNotificationPackage
PRESENT IF
"the attributeValueChange notification defined in ITU-T Rec. X.721
is supported by an instance of this class."
REGISTERED AS {ts32-634ObjectClass 33};

-- 5.1.34 icscfFunction

icscfFunction **MANAGED OBJECT CLASS**
DERIVED FROM
"3GPP TS 32.624": managedFunction;
CHARACTERIZED BY
icscfFunctionBasicPackage,
"3GPP TS 32.111-4": x721AlarmNotificationsPackage;
CONDITIONAL PACKAGES
"Rec. M.3100: 1995":createDeleteNotificationsPackage
PRESENT IF
"the objectCreation and the objectDeletion notifications defined in
ITU-T Rec. X.721 are supported by an instance of this class.",
"Rec. M.3100: 1995":attributeValueChangeNotificationPackage
PRESENT IF
"the attributeValueChange notification defined in ITU-T Rec. X.721

is supported by an instance of this class."
REGISTERED AS {ts32-634ObjectClass 34};

-- 5.1.35 slfFunction

slfFunction MANAGED OBJECT CLASS

DERIVED FROM

"3GPP TS 32.624": managedFunction;

CHARACTERIZED BY

slfFunctionBasicPackage,

"3GPP TS 32.111-4": x721AlarmNotificationsPackage;

CONDITIONAL PACKAGES

"Rec. M.3100: 1995":createDeleteNotificationsPackage

PRESENT IF

"the objectCreation and the objectDeletion notifications defined in
ITU-T Rec. X.721 are supported by an instance of this class.",

"Rec. M.3100: 1995":attributeValueChangeNotificationPackage

PRESENT IF

"the attributeValueChange notification defined in ITU-T Rec. X.721
is supported by an instance of this class.;"

REGISTERED AS {ts32-634ObjectClass 35};

-- 5.1.36 bgcfFunction

bgcfFunction MANAGED OBJECT CLASS

DERIVED FROM

"3GPP TS 32.624": managedFunction;

CHARACTERIZED BY

bgcfFunctionBasicPackage,

"3GPP TS 32.111-4": x721AlarmNotificationsPackage;

CONDITIONAL PACKAGES

"Rec. M.3100: 1995":createDeleteNotificationsPackage

PRESENT IF

"the objectCreation and the objectDeletion notifications defined in
ITU-T Rec. X.721 are supported by an instance of this class.",

"Rec. M.3100: 1995":attributeValueChangeNotificationPackage

PRESENT IF

"the attributeValueChange notification defined in ITU-T Rec. X.721
is supported by an instance of this class.;"

REGISTERED AS {ts32-634ObjectClass 36};

-- 5.1.37 mrfcFunction

mrfcFunction MANAGED OBJECT CLASS

DERIVED FROM

"3GPP TS 32.624": managedFunction;

CHARACTERIZED BY

mrfcFunctionBasicPackage,

"3GPP TS 32.111-4": x721AlarmNotificationsPackage;

CONDITIONAL PACKAGES

"Rec. M.3100: 1995":createDeleteNotificationsPackage

PRESENT IF

"the objectCreation and the objectDeletion notifications defined in
ITU-T Rec. X.721 are supported by an instance of this class.",

"Rec. M.3100: 1995":attributeValueChangeNotificationPackage

PRESENT IF

"the attributeValueChange notification defined in ITU-T Rec. X.721
is supported by an instance of this class.;"

REGISTERED AS {ts32-634ObjectClass 37};

-- 5.1.38 asFunction

asFunction MANAGED OBJECT CLASS

DERIVED FROM

"3GPP TS 32.624": managedFunction;

CHARACTERIZED BY

asFunctionBasicPackage,

"3GPP TS 32.111-4": x721AlarmNotificationsPackage;

CONDITIONAL PACKAGES

"Rec. M.3100: 1995":createDeleteNotificationsPackage

PRESENT IF

"the objectCreation and the objectDeletion notifications defined in
ITU-T Rec. X.721 are supported by an instance of this class.",

"Rec. M.3100: 1995":attributeValueChangeNotificationPackage

PRESENT IF

"the attributeValueChange notification defined in ITU-T Rec. X.721
is supported by an instance of this class.;"

REGISTERED AS {ts32-634ObjectClass 38};

-- 5.1.39 mgcfFunction

mgcfFunction MANAGED OBJECT CLASS

DERIVED FROM

"3GPP TS 32.624": managedFunction;

CHARACTERIZED BY

mgcfFunctionBasicPackage,

"3GPP TS 32.111-4": x721AlarmNotificationsPackage;

CONDITIONAL PACKAGES

"Rec. M.3100: 1995":createDeleteNotificationsPackage

PRESENT IF

"the objectCreation and the objectDeletion notifications defined in

ITU-T Rec. X.721 are supported by an instance of this class.",

"Rec. M.3100: 1995":attributeValueChangeNotificationPackage

PRESENT IF

"the attributeValueChange notification defined in ITU-T Rec. X.721

is supported by an instance of this class.";

REGISTERED AS {ts32-634ObjectClass 39};

-- 5.1.40 mrfpFunction

mrfpFunction MANAGED OBJECT CLASS

DERIVED FROM

"3GPP TS 32.624": managedFunction;

CHARACTERIZED BY

mrfpFunctionBasicPackage,

"3GPP TS 32.111-4": x721AlarmNotificationsPackage;

CONDITIONAL PACKAGES

"Rec. M.3100: 1995":createDeleteNotificationsPackage

PRESENT IF

"the objectCreation and the objectDeletion notifications defined in

ITU-T Rec. X.721 are supported by an instance of this class.",

"Rec. M.3100: 1995":attributeValueChangeNotificationPackage

PRESENT IF

"the attributeValueChange notification defined in ITU-T Rec. X.721

is supported by an instance of this class.";

REGISTERED AS {ts32-634ObjectClass 40};

-- 5.2 Packages

-- 5.2.1 smlcFunctionBasicPackage

smlcFunctionBasicPackage **PACKAGE**

BEHAVIOUR

smlcFunctionBasicPackageBehaviour;

ATTRIBUTES

smlcFunctionId GET;

REGISTERED AS {ts32-634Package 1};

smlcFunctionBasicPackageBehaviour **BEHAVIOUR**

DEFINED AS

"The 'SmlcFunction' Information Object represents the SMLC functionality. For more information about the SMLC, see 3GPP TS 23.002";

-- 5.2.2 gmlcFunctionBasicPackage

gmlcFunctionBasicPackage **PACKAGE**

BEHAVIOUR

gmlcFunctionBasicPackageBehaviour;

ATTRIBUTES

gmlcFunctionId GET;

REGISTERED AS {ts32-634Package 2};

gmlcFunctionBasicPackageBehaviour **BEHAVIOUR**

DEFINED AS

"The 'GmlcFunction' Information Object represents the GMLC functionality. For more information about the GMLC, see 3GPP TS 23.002";

-- 5.2.3 scfFunctionBasicPackage

```
scfFunctionBasicPackage PACKAGE
  BEHAVIOUR
    scfFunctionBasicPackageBehaviour;
  ATTRIBUTES
    scfFunctionId GET;
REGISTERED AS {ts32-634Package 3};

scfFunctionBasicPackageBehaviour BEHAVIOUR
DEFINED AS
  "The 'ScfFunction' Information Object represents the SCF functionality. For more information
  about the SCF, see 3GPP TS 23.002";
```

-- 5.2.4 srfFunctionBasicPackage

```
srfFunctionBasicPackage PACKAGE
  BEHAVIOUR
    srfFunctionBasicPackageBehaviour;
  ATTRIBUTES
    srfFunctionId GET;
REGISTERED AS {ts32-634Package 4};

srfFunctionBasicPackageBehaviour BEHAVIOUR
DEFINED AS
  "The 'SrfFunction' Information Object represents the SRF functionality. For more information
  about the SRF, see 3GPP TS 23.002";
```

-- 5.2.5 cbcFunctionBasicPackage

```
cbcFunctionBasicPackage PACKAGE
  BEHAVIOUR
    cbcFunctionBasicPackageBehaviour;
  ATTRIBUTES
    cbcFunctionId GET;
REGISTERED AS {ts32-634Package 5};

cbcFunctionBasicPackageBehaviour BEHAVIOUR
DEFINED AS
  "The 'CbcFunction' Information Object represents the SBC functionality. For more
  information about the SBC, see 3GPP TS 23.002";
```

-- 5.2.6 cgfFunctionBasicPackage

```
cgfFunctionBasicPackage PACKAGE
  BEHAVIOUR
    cgfFunctionBasicPackageBehaviour;
  ATTRIBUTES
    cgfFunctionId GET;
REGISTERED AS {ts32-634Package 6};

cgfFunctionBasicPackageBehaviour BEHAVIOUR
DEFINED AS
  "The 'CgfFunction' Information Object represents the CGF functionality. For more information
  about the CGF, see 3GPP TS 23.002";
```

-- 5.2.7 imsMgwFunctionBasicPackage

```
imsMgwFunctionBasicPackage PACKAGE
  BEHAVIOUR
    imsMgwFunctionBasicPackageBehaviour;
  ATTRIBUTES
    imsMgwFunctionId GET;
REGISTERED AS {ts32-634Package 70503};

imsMgwFunctionBasicPackageBehaviour BEHAVIOUR
DEFINED AS
  "The 'imsMgwFunction' Information Object represents the IMS-MGW functionality. For more
  information about the IMS-MGW, see 3GPP TS 23.002";
```

-- 5.2.8 gmscFunctionBasicPackage

```
gmscFunctionBasicPackage PACKAGE
  BEHAVIOUR
    gmscFunctionBasicPackageBehaviour;
  ATTRIBUTES
    gmscFunctionId      GET;
REGISTERED AS {ts32-634Package 8};

gmscFunctionBasicPackageBehaviour BEHAVIOUR
DEFINED AS
  "The 'GmscFunction' Information Object represents the GMSC functionality. For more information
  about the GMSC, see 3GPP TS 23.002";
```

-- 5.2.9 iwfunctionBasicPackage

```
iwfunctionBasicPackage PACKAGE
  BEHAVIOUR
    iwfunctionBasicPackageBehaviour;
  ATTRIBUTES
    iwfunctionId      GET;
REGISTERED AS {ts32-634Package 9};

iwfunctionBasicPackageBehaviour BEHAVIOUR
DEFINED AS
  "The 'Iwfunction' Information Object represents the IWF functionality. For more information
  about the IWF, see 3GPP TS 23.002";
```

-- 5.2.10 mnpSrfFunctionBasicPackage

```
mnpSrfFunctionBasicPackage PACKAGE
  BEHAVIOUR
    mnpSrfFunctionBasicPackageBehaviour;
  ATTRIBUTES
    mnpSrfFunctionId  GET;
REGISTERED AS {ts32-634Package 10};

mnpSrfFunctionBasicPackageBehaviour BEHAVIOUR
DEFINED AS
  "The 'MnpSrfFunction' Information Object represents the MNPSRF functionality. For more
  information about the MNPSRF, see 3GPP TS 23.002";
```

-- 5.2.11 npdbFunctionBasicPackage

```
npdbFunctionBasicPackage PACKAGE
  BEHAVIOUR
    npdbFunctionBasicPackageBehaviour;
  ATTRIBUTES
    npdbFunctionId  GET;
REGISTERED AS {ts32-634Package 11};

npdbFunctionBasicPackageBehaviour BEHAVIOUR
DEFINED AS
  "The 'NpdbFunction' Information Object represents the NPDB functionality. For more information
  about the NPDB, see 3GPP TS 23.002";
```

-- 5.2.12 rSgwFunctionBasicPackage

```
rSgwFunctionBasicPackage PACKAGE
  BEHAVIOUR
    rSgwFunctionBasicPackageBehaviour;
  ATTRIBUTES
    rSgwFunctionId  GET;
REGISTERED AS {ts32-634Package 12};

rSgwFunctionBasicPackageBehaviour BEHAVIOUR
DEFINED AS
  "The 'RSgwFunction' Information Object represents the R-SGW functionality. For more information
  about the R-SGW, see 3GPP TS 23.002";
```

-- 5.2.13 ssfFunctionBasicPackage

```
ssfFunctionBasicPackage PACKAGE
  BEHAVIOUR
    ssfFunctionBasicPackageBehaviour;
  ATTRIBUTES
    ssfFunctionId      GET;
REGISTERED AS {ts32-634Package 13};

ssfFunctionBasicPackageBehaviour BEHAVIOUR
DEFINED AS
  "The 'SsfFunction' Information Object represents the SSF functionality. For more information
  about the SSF, see 3GPP TS 23.002";
```

-- 5.2.14 bsFunctionBasicPackage

```
bsFunctionBasicPackage PACKAGE
  BEHAVIOUR
    bsFunctionBasicPackageBehaviour;
  ATTRIBUTES
    bsFunctionId      GET;
REGISTERED AS {ts32-634Package 14};

bsFunctionBasicPackageBehaviour BEHAVIOUR
DEFINED AS
  "The 'BsFunction' Information Object represents the BS functionality. For more information about
  the BS, see 3GPP TS 23.002";
```

-- 5.2.15 aucFunctionBasicPackage

```
aucFunctionBasicPackage PACKAGE
  BEHAVIOUR
    aucFunctionBasicPackageBehaviour;
  ATTRIBUTES
    aucFunctionId      GET;
REGISTERED AS {ts32-634Package 15};

aucFunctionBasicPackageBehaviour BEHAVIOUR
DEFINED AS
  "The 'aucFunction' Information Object represents the AUC functionality. For more information
  about the AUC, see 3GPP TS 23.002";
```

-- 5.2.16 bgFunctionBasicPackage

```
bgFunctionBasicPackage PACKAGE
  BEHAVIOUR
    bgFunctionBasicPackageBehaviour;
  ATTRIBUTES
    bgFunctionId      GET;
REGISTERED AS {ts32-634Package 16};

bgFunctionBasicPackageBehaviour BEHAVIOUR
DEFINED AS
  "The 'bgFunction' Information Object represents the BG functionality. For more information about
  the BG, see 3GPP TS 23.002";
```

-- 5.2.17 eirFunctionBasicPackage

```
eirFunctionBasicPackage PACKAGE
  BEHAVIOUR
    eirFunctionBasicPackageBehaviour;
  ATTRIBUTES
    eirFunctionId      GET;
REGISTERED AS {ts32-634Package 17};

eirFunctionBasicPackageBehaviour BEHAVIOUR
DEFINED AS
  "The 'EirFunction' Information Object represents the EIR functionality. For more information
  about the EIR, see 3GPP TS 23.002";
```

-- 5.2.18 ggsnFunctionBasicPackage

```
ggsnFunctionBasicPackage PACKAGE
  BEHAVIOUR
    ggsnFunctionBasicPackageBehaviour;
  ATTRIBUTES
    ggsnFunctionId GET;
REGISTERED AS {ts32-634Package 18};

ggsnFunctionBasicPackageBehaviour BEHAVIOUR
DEFINED AS
  "The 'GGSNFunction' Information Object represents the GGSN functionality. For more information
  about the GGSN, see 3GPP TS 23.002";
```

-- 5.2.19 hlrFunctionBasicPackage

```
hlrFunctionBasicPackage PACKAGE
  BEHAVIOUR
    hlrFunctionBasicPackageBehaviour;
  ATTRIBUTES
    hlrFunctionId GET;
REGISTERED AS {ts32-634Package 19};

hlrFunctionBasicPackageBehaviour BEHAVIOUR
DEFINED AS
  "The 'HLRFunction' Information Object represents the HLR functionality. For more information
  about the HLR, see 3GPP TS 23.002";
```

-- 5.2.20 mscServerFunctionBasicPackage

```
mscServerFunctionBasicPackage PACKAGE
  BEHAVIOUR
    mscServerFunctionBasicPackageBehaviour;
  ATTRIBUTES
    mscServerFunctionId GET,
    mccList GET-REPLACE,
    mncList GET-REPLACE,
    lacList GET-REPLACE,
    sacList GET-REPLACE,
    gcaList GET-REPLACE,
    mscId GET-REPLACE;
REGISTERED AS {ts32-634Package 20};

mscServerFunctionBasicPackageBehaviour BEHAVIOUR
DEFINED AS
  "The 'MSCServerFunction' Information Object represents the MSCServer functionality.
  For more information about the MSCServer, see 3GPP TS 23.002";
```

-- 5.2.21 mscServerFunctionAssociationPackage

```
mscServerFunctionAssociationPackage PACKAGE
  BEHAVIOUR
    mscServerFunctionAssociationPackageBehaviour;
  ATTRIBUTES
    mscServerFunction-GSMcell GET,
    mscServerFunction-ExternalGSMcell GET,
    mscServerFunction-CsMgwFunction GET;
REGISTERED AS {ts32-634Package 21};

mscServerFunctionAssociationPackageBehaviour BEHAVIOUR
DEFINED AS
  "This Package contains the attributes of an 'MscServerFunction' information object in
  relation with associations to GsmCell, ExternalGsmCell and CsMgwFunction information objects";
```

-- 5.2.22 sgsnFunctionBasicPackage

```
sgsnFunctionBasicPackage PACKAGE
  BEHAVIOUR
    sgsnFunctionBasicPackageBehaviour;
  ATTRIBUTES
    sgsnFunctionId GET,
    mccList GET-REPLACE,
```

```

mncList          GET-REPLACE,
lacList          GET-REPLACE,
racList          GET-REPLACE,
sgsnId           GET-REPLACE,
mscId           GET-REPLACE;
REGISTERED AS {ts32-634Package 22};

```

```

sgsnFunctionBasicPackageBehaviour BEHAVIOUR
DEFINED AS

```

```

"The 'sgsnFunction' Information Object represents the SGSN functionality. For more information
about the SGSN, see 3GPP TS 23.002";

```

-- 5.2.23 sgsnFunctionAssociationPackage

```

sgsnFunctionAssociationPackage PACKAGE
BEHAVIOUR
sgsnFunctionAssociationPackageBehaviour;
ATTRIBUTES
sgsnFunction-GSMcell          GET,
sgsnFunction-ExternalGSMcell GET;
REGISTERED AS {ts32-634Package 23};

```

```

sgsnFunctionAssociationPackageBehaviour BEHAVIOUR
DEFINED AS

```

```

"This Package contains the attributes of an 'SGSNFunction' information object in relation
with associations to GsmCell and ExternalGsmCell information objects.";

```

-- 5.2.24 smsGsmcFunctionBasicPackage

```

smsGsmcFunctionBasicPackage PACKAGE
BEHAVIOUR
smsGsmcFunctionBasicPackageBehaviour;
ATTRIBUTES
smsGsmcFunctionId          GET;
REGISTERED AS {ts32-634Package 24};

```

```

smsGsmcFunctionBasicPackageBehaviour BEHAVIOUR
DEFINED AS

```

```

"The 'smsGsmcFunction' Information Object represents the SMS-GMSC functionality.
For more information about the SMS-GMSC, see 3GPP TS 23.002";

```

-- 5.2.25 smsIwmscFunctionBasicPackage

```

smsIwmscFunctionBasicPackage PACKAGE
BEHAVIOUR
smsIwmscFunctionBasicPackageBehaviour;
ATTRIBUTES
smsIwmscFunctionId          GET;
REGISTERED AS {ts32-634Package 25};

```

```

smsIwmscFunctionBasicPackageBehaviour BEHAVIOUR
DEFINED AS

```

```

"The 'smsIwmscFunction' Information Object represents the SmsIwMSC functionality.
For more information about the SmsIwMsc, see 3GPP TS 23.002";

```

-- 5.2.26 vlrFunctionBasicPackage

```

vlrFunctionBasicPackage PACKAGE
BEHAVIOUR
vlrFunctionBasicPackageBehaviour;
ATTRIBUTES
vlrFunctionId          GET;
REGISTERED AS {ts32-634Package 26};

```

```

vlrFunctionBasicPackageBehaviour BEHAVIOUR
DEFINED AS

```

```

"The 'vlrFunction' Information Object represents the VLR functionality. For more information
about the VLR, see 3GPP TS 23.002";

```


-- 5.2.27 gbLinkBasicPackage

gbLinkBasicPackage **PACKAGE**

BEHAVIOUR

gbLinkBasicPackageBehaviour;

ATTRIBUTES

gbLinkId GET;

REGISTERED AS {ts32-634Package 27};

gbLinkBasicPackageBehaviour **BEHAVIOUR**

DEFINED AS

"The 'gbLink' Information Object represents the Gb link functionality. For more information about the Gb link, see 3GPP TS 23.002";

-- 5.2.28 gbLinkAssociationPackage

gbLinkAssociationPackage **PACKAGE**

BEHAVIOUR

gbLinkAssociationPackageBehaviour;

ATTRIBUTES

connectedBss GET;

REGISTERED AS {ts32-634Package 28};

gbLinkAssociationPackageBehaviour **BEHAVIOUR**

DEFINED AS

"This Package contains the attributes of an 'gbLink' information object in relation with associations to BssFunction or ExternalBssFunction objects";

-- 5.2.29 aLinkBasicPackage

aLinkBasicPackage **PACKAGE**

BEHAVIOUR

aLinkBasicPackageBehaviour;

ATTRIBUTES

aLinkId GET;

REGISTERED AS {ts32-634Package 29};

aLinkBasicPackageBehaviour **BEHAVIOUR**

DEFINED AS

"The 'aLink' Information Object represents the A link functionality. For more information about the A link, see 3GPP TS 23.002";

-- 5.2.30 aLinkAssociationPackage

aLinkAssociationPackage **PACKAGE**

BEHAVIOUR

aLinkAssociationPackageBehaviour;

ATTRIBUTES

connectedBss GET;

REGISTERED AS {ts32-634Package 30};

aLinkAssociationPackageBehaviour **BEHAVIOUR**

DEFINED AS

"This Package contains the attributes of an 'aLink' information object in relation with associations to BssFunction or ExternalBssFunction objects";

-- 5.2.31 iucsLinkBasicPackage

iucsLinkBasicPackage **PACKAGE**

BEHAVIOUR

iucsLinkBasicPackageBehaviour;

ATTRIBUTES

iucsLinkId GET;

REGISTERED AS {ts32-634Package 31};

iucsLinkBasicPackageBehaviour **BEHAVIOUR**

DEFINED AS

"The 'iucsLink' Information Object represents the Iu-cs link functionality. For more information about the Iu-cs link, see 3GPP TS 23.002";

-- 5.2.32 iucsLinkAssociationPackage

```
iucsLinkAssociationPackage PACKAGE
  BEHAVIOUR
    iucsLinkAssociationPackageBehaviour;
  ATTRIBUTES
    connectedRnc      GET,
    connectedBss      GET;
REGISTERED AS {ts32-634Package 32};

iucsLinkAssociationPackageBehaviour BEHAVIOUR
DEFINED AS
  "This Package contains the attributes of an 'iucsLink' information object in relation with
  associations to Bss/RncFunction or ExternalBss/RncFunction objects";
```

-- 5.2.33 iupsLinkBasicPackage

```
iupsLinkBasicPackage PACKAGE
  BEHAVIOUR
    iupsLinkBasicPackageBehaviour;
  ATTRIBUTES
    iupsLinkId      GET;
REGISTERED AS {ts32-634Package 33};

iupsLinkBasicPackageBehaviour BEHAVIOUR
DEFINED AS
  "The 'iupsLink' Information Object represents the Iu-ps link functionality. For more
  information about the Iu-ps link, see 3GPP TS 23.002";
```

-- 5.2.34 iupsLinkAssociationPackage

```
iupsLinkAssociationPackage PACKAGE
  BEHAVIOUR
    iupsLinkAssociationPackageBehaviour;
  ATTRIBUTES
    connectedRnc      GET,
    connectedBss      GET;
REGISTERED AS {ts32-634Package 34};

iupsLinkAssociationPackageBehaviour BEHAVIOUR
DEFINED AS
  "This Package contains the attributes of an 'iupsLink' information object in relation with
  associations to Bss/RncFunction or ExternalBss/RncFunction objects";
```

-- 5.2.35 iubcLinkBasicPackage

```
iubcLinkBasicPackage PACKAGE
  BEHAVIOUR
    iubcLinkBasicPackageBehaviour;
  ATTRIBUTES
    iubcLinkId      GET;
REGISTERED AS {ts32-634Package 35};

iubcLinkBasicPackageBehaviour BEHAVIOUR
DEFINED AS
  "The 'iubcLink' Information Object represents the Iu-bc link functionality. For more
  information about the Iu-bc link, see 3GPP TS 23.002";
```

-- 5.2.36 iubcLinkAssociationPackage

```
iubcLinkAssociationPackage PACKAGE
  BEHAVIOUR
    iubcLinkAssociationPackageBehaviour;
  ATTRIBUTES
    connectedRnc      GET;
REGISTERED AS {ts32-634Package 36};

iubcLinkAssociationPackageBehaviour BEHAVIOUR
DEFINED AS
  "This Package contains the attributes of an 'iubcLink' information object in relation with
  associations to RncFunction or ExternalRncFunction objects";
```

-- 5.2.37 csMgwFunctionBasicPackage

```
csMgwFunctionBasicPackage PACKAGE
  BEHAVIOUR
    csMgwFunctionBasicPackageBehaviour;
  ATTRIBUTES
    csMgwFunctionId      GET;
REGISTERED AS {ts32-634Package 37};

csMgwFunctionBasicPackageBehaviour BEHAVIOUR
DEFINED AS
  "The 'csMgwFunction' Information Object represents the CS-MGW functionality. For more
  information about the CS-MGW, see 3GPP TS 23.002";
```

-- 5.2.38 csMgwFunctionAssociationPackage

```
csMgwFunctionAssociationPackage PACKAGE
  BEHAVIOUR
    csMgwFunctionAssociationPackageBehaviour;
  ATTRIBUTES
    csMgwFunction-MscServerFunction  GET,
    csMgwFunction-IucsLink           GET,
    csMgwFunction-Alink              GET;
REGISTERED AS {ts32-634Package 38};

csMgwFunctionAssociationPackageBehaviour BEHAVIOUR
DEFINED AS
  "This Package contains the attributes of an 'csMgwFunction' information object in relation
  with associations to mscServerFunction, iucsLink or aLink objects";
```

-- 5.2.39 gmscServerFunctionBasicPackage

```
gmscServerFunctionBasicPackage PACKAGE
  BEHAVIOUR
    gmscServerFunctionBasicPackageBehaviour;
  ATTRIBUTES
    gmscServerFunctionId  GET;
REGISTERED AS {ts32-634Package 39};

gmscServerFunctionBasicPackageBehaviour BEHAVIOUR
DEFINED AS
  "The 'gmscServerFunction' Information Object represents the GMSCServer functionality. For more
  information about the GMSCServer, see 3GPP TS 23.002";
```

-- 5.2.40 scscfFunctionBasicPackage

```
scscfFunctionBasicPackage PACKAGE
  BEHAVIOUR
    scscfFunctionBasicPackageBehaviour;
  ATTRIBUTES
    scscfFunctionId      GET;
REGISTERED AS {ts32-634Package 40};

scscfFunctionBasicPackageBehaviour BEHAVIOUR
DEFINED AS
  "The 'scscfFunction' Information Object represents the S-CSCF functionality. For more
information about the S-CSCF, see 3GPP TS 23.002";
```

-- 5.2.41 pcscfFunctionBasicPackage

```
pcscfFunctionBasicPackage PACKAGE
  BEHAVIOUR
    pcscfFunctionBasicPackageBehaviour;
  ATTRIBUTES
    pcscfFunctionId      GET;
REGISTERED AS {ts32-634Package 41};

pcscfFunctionBasicPackageBehaviour BEHAVIOUR
DEFINED AS
  "The 'pcscfFunction' Information Object represents the P-CSCF functionality. For more
information about the P-CSCF, see 3GPP TS 23.002";
```

-- 5.2.42 icscfFunctionBasicPackage

icscfFunctionBasicPackage PACKAGE

BEHAVIOUR

icscfFunctionBasicPackageBehaviour;

ATTRIBUTES

icscfFunctionId GET;

REGISTERED AS {ts32-634Package 42};

icscfFunctionBasicPackageBehaviour BEHAVIOUR

DEFINED AS

"The 'icscfFunction' Information Object represents the I-CSCF functionality. For more information about the I-CSCF, see 3GPP TS 23.002";

-- 5.2.43 slfFunctionBasicPackage

slfFunctionBasicPackage PACKAGE

BEHAVIOUR

slfFunctionBasicPackageBehaviour;

ATTRIBUTES

slfFunctionId GET;

REGISTERED AS {ts32-634Package 43};

slfFunctionBasicPackageBehaviour BEHAVIOUR

DEFINED AS

"The 'slfFunction' Information Object represents the SLF functionality. For more information about the SLF, see 3GPP TS 23.002";

-- 5.2.44 bgcfFunctionBasicPackage

bgcfFunctionBasicPackage PACKAGE

BEHAVIOUR

bgcfFunctionBasicPackageBehaviour;

ATTRIBUTES

bgcfFunctionId GET;

REGISTERED AS {ts32-634Package 44};

bgcfFunctionBasicPackageBehaviour BEHAVIOUR

DEFINED AS

"The 'bgcfFunction' Information Object represents the BGCF functionality. For more information about the BGCF, see 3GPP TS 23.002";

-- 5.2.45 mrfcFunctionBasicPackage

mrfcFunctionBasicPackage PACKAGE

BEHAVIOUR

mrfcFunctionBasicPackageBehaviour;

ATTRIBUTES

mrfcFunctionId GET;

REGISTERED AS {ts32-634Package 45};

mrfcFunctionBasicPackageBehaviour BEHAVIOUR

DEFINED AS

"The 'mrfcFunction' Information Object represents the MRFC functionality. For more information about the MRFC, see 3GPP TS 23.002";

-- 5.2.46 asFunctionBasicPackage

asFunctionBasicPackage PACKAGE

BEHAVIOUR

asFunctionBasicPackageBehaviour;

ATTRIBUTES

asFunctionId GET;

REGISTERED AS {ts32-634Package 46};

asFunctionBasicPackageBehaviour BEHAVIOUR

DEFINED AS

"The 'asFunction' Information Object represents the AS functionality. For more information about the AS, see 3GPP TS 23.002";

-- 5.2.47 mgcfFunctionBasicPackage

mgcfFunctionBasicPackage **PACKAGE**

BEHAVIOUR

mgcfFunctionBasicPackageBehaviour;

ATTRIBUTES

mgcfFunctionId GET;

REGISTERED AS {ts32-634Package 47};

mgcfFunctionBasicPackageBehaviour **BEHAVIOUR**

DEFINED AS

"The 'mgcfFunction' Information Object represents the MGCF functionality. For more information about the MGCF, see 3GPP TS 23.002";

-- 5.2.48 mrfpFunctionBasicPackage

mrfpFunctionBasicPackage **PACKAGE**

BEHAVIOUR

mrfpFunctionBasicPackageBehaviour;

ATTRIBUTES

mrfpFunctionId GET;

REGISTERED AS {ts32-634Package 48};

mrfpFunctionBasicPackageBehaviour **BEHAVIOUR**

DEFINED AS

"The 'mrfpFunction' Information Object represents the MRFP functionality. For more information about the MRFP, see 3GPP TS 23.002";

-- 5.3 Attributes

-- 5.3.1 smlcFunctionId

smlcFunctionId **ATTRIBUTE**

WITH ATTRIBUTE SYNTAX

TS32-634TypeModule.GeneralObjectId;

MATCHES FOR

EQUALITY;

BEHAVIOUR

smlcFunctionIdBehaviour;

REGISTERED AS {ts32-634Attribute 1};

smlcFunctionIdBehaviour **BEHAVIOUR**

DEFINED AS

"This attribute identifies a smlcFunction instance.";

-- 5.3.2 gmlcFunctionId

gmlcFunctionId **ATTRIBUTE**

WITH ATTRIBUTE SYNTAX

TS32-634TypeModule.GeneralObjectId;

MATCHES FOR

EQUALITY;

BEHAVIOUR

gmlcFunctionIdBehaviour;

REGISTERED AS {ts32-634Attribute 2};

gmlcFunctionIdBehaviour **BEHAVIOUR**

DEFINED AS

"This attribute identifies a gmlcFunction instance.";

-- 5.3.3 scfFunctionId

scfFunctionId **ATTRIBUTE**

WITH ATTRIBUTE SYNTAX

TS32-634TypeModule.GeneralObjectId;

MATCHES FOR

EQUALITY;

BEHAVIOUR

scfFunctionIdBehaviour;

REGISTERED AS {ts32-634Attribute 3};

```
scfFunctionIdBehaviour BEHAVIOUR
DEFINED AS
    "This attribute identifies a scfFunction instance.";
```

-- 5.3.4 srfFunctionId

```
srfFunctionId ATTRIBUTE
WITH ATTRIBUTE SYNTAX
    TS32-634TypeModule.GeneralObjectId;
MATCHES FOR
    EQUALITY;
BEHAVIOUR
    srfFunctionIdBehaviour;
REGISTERED AS {ts32-634Attribute 4};

srfFunctionIdBehaviour BEHAVIOUR
DEFINED AS
    "This attribute identifies a srfFunction instance.";
```

-- 5.3.5 cbcFunctionId

```
cbcFunctionId ATTRIBUTE
WITH ATTRIBUTE SYNTAX
    TS32-634TypeModule.GeneralObjectId;
MATCHES FOR
    EQUALITY;
BEHAVIOUR
    cbcFunctionIdBehaviour;
REGISTERED AS {ts32-634Attribute 5};

cbcFunctionIdBehaviour BEHAVIOUR
DEFINED AS
    "This attribute identifies a cbcFunction instance.";
```

-- 5.3.6 cgfFunctionId

```
cgfFunctionId ATTRIBUTE
WITH ATTRIBUTE SYNTAX
    TS32-634TypeModule.GeneralObjectId;
MATCHES FOR
    EQUALITY;
BEHAVIOUR
    cgfFunctionIdBehaviour;
REGISTERED AS {ts32-634Attribute 6};

cgfFunctionIdBehaviour BEHAVIOUR
DEFINED AS
    "This attribute identifies a cgfFunction instance.";
```

-- 5.3.7 imsMgwFunctionId

```
imsMgwFunctionId ATTRIBUTE
WITH ATTRIBUTE SYNTAX
    TS32-634TypeModule.GeneralObjectId;
MATCHES FOR
    EQUALITY;
BEHAVIOUR
    imsMgwFunctionIdBehaviour;
REGISTERED AS {ts32-634Attribute 70503};

imsMgwFunctionIdBehaviour BEHAVIOUR
DEFINED AS
    "This attribute identifies an imsMgwFunction instance.";
```

-- 5.3.8 gmscFunctionId

```
gmscFunctionId ATTRIBUTE
WITH ATTRIBUTE SYNTAX
    TS32-634TypeModule.GeneralObjectId;
MATCHES FOR
```

```
    EQUALITY;
    BEHAVIOUR
        gmscFunctionIdBehaviour;
    REGISTERED AS {ts32-634Attribute 8};

gmscFunctionIdBehaviour BEHAVIOUR
DEFINED AS
    "This attribute identifies a gmscFunction instance.";
```

-- 5.3.9 iwFunctionId

```
iwFunctionId ATTRIBUTE
    WITH ATTRIBUTE SYNTAX
        TS32-634TypeModule.GeneralObjectId;
    MATCHES FOR
        EQUALITY;
    BEHAVIOUR
        iwFunctionIdBehaviour;
    REGISTERED AS {ts32-634Attribute 9};

iwFunctionIdBehaviour BEHAVIOUR
DEFINED AS
    "This attribute identifies a iwFunction instance.";
```

-- 5.3.10 mnpSrfFunctionId

```
mnpSrfFunctionId ATTRIBUTE
    WITH ATTRIBUTE SYNTAX
        TS32-634TypeModule.GeneralObjectId;
    MATCHES FOR
        EQUALITY;
    BEHAVIOUR
        mnpSrfFunctionIdBehaviour;
    REGISTERED AS {ts32-634Attribute 10};

mnpSrfFunctionIdBehaviour BEHAVIOUR
DEFINED AS
    "This attribute identifies a mnpSrfFunction instance.";
```

-- 5.3.11 npdbFunctionId

```
npdbFunctionId ATTRIBUTE
    WITH ATTRIBUTE SYNTAX
        TS32-634TypeModule.GeneralObjectId;
    MATCHES FOR
        EQUALITY;
    BEHAVIOUR
        npdbFunctionIdBehaviour;
    REGISTERED AS {ts32-634Attribute 11};

npdbFunctionIdBehaviour BEHAVIOUR
DEFINED AS
    "This attribute identifies a npdbFunction instance.";
```

-- 5.3.12 rSgwFunctionId

```
rSgwFunctionId ATTRIBUTE
    WITH ATTRIBUTE SYNTAX
        TS32-634TypeModule.GeneralObjectId;
    MATCHES FOR
        EQUALITY;
    BEHAVIOUR
        rSgwFunctionIdBehaviour;
    REGISTERED AS {ts32-634Attribute 12};

rSgwFunctionIdBehaviour BEHAVIOUR
DEFINED AS
    "This attribute identifies a rSgwFunction instance.";
```

-- 5.3.13 ssfFunctionId

```
ssfFunctionId ATTRIBUTE
  WITH ATTRIBUTE SYNTAX
    TS32-634TypeModule.GeneralObjectId;
  MATCHES FOR
    EQUALITY;
  BEHAVIOUR
    ssfFunctionIdBehaviour;
REGISTERED AS {ts32-634Attribute 13};

ssfFunctionIdBehaviour BEHAVIOUR
DEFINED AS
  "This attribute identifies a ssfFunction instance.";
```

-- 5.3.14 bsFunctionId

```
bsFunctionId ATTRIBUTE
  WITH ATTRIBUTE SYNTAX
    TS32-634TypeModule.GeneralObjectId;
  MATCHES FOR
    EQUALITY;
  BEHAVIOUR
    bsFunctionIdBehaviour;
REGISTERED AS {ts32-634Attribute 14};

bsFunctionIdBehaviour BEHAVIOUR
DEFINED AS
  "This attribute identifies a bsFunction instance.";
```

-- 5.3.15 aucFunctionId

```
aucFunctionId ATTRIBUTE
  WITH ATTRIBUTE SYNTAX
    TS32-634TypeModule.GeneralObjectId;
  MATCHES FOR
    EQUALITY;
  BEHAVIOUR
    aucFunctionIdBehaviour;
REGISTERED AS {ts32-634Attribute 15};

aucFunctionIdBehaviour BEHAVIOUR
DEFINED AS
  "This attribute identifies a aucFunction instance.";
```

-- 5.3.16 bgFunctionId

```
bgFunctionId ATTRIBUTE
  WITH ATTRIBUTE SYNTAX
    TS32-634TypeModule.GeneralObjectId;
  MATCHES FOR
    EQUALITY;
  BEHAVIOUR
    bgFunctionIdBehaviour;
REGISTERED AS {ts32-634Attribute 16};

bgFunctionIdBehaviour BEHAVIOUR
DEFINED AS
  "This attribute identifies a bgFunction instance.";
```

-- 5.3.17 eirFunctionId

```
eirFunctionId ATTRIBUTE
  WITH ATTRIBUTE SYNTAX
    TS32-634TypeModule.GeneralObjectId;
  MATCHES FOR
    EQUALITY;
  BEHAVIOUR
    eirFunctionIdBehaviour;
REGISTERED AS {ts32-634Attribute 17};
```



```
eirFunctionIdBehaviour BEHAVIOUR
DEFINED AS
"This attribute identifies a eirFunction instance.";
```

-- 5.3.18 ggsnFunctionId

```
ggsnFunctionId ATTRIBUTE
WITH ATTRIBUTE SYNTAX
    TS32-634TypeModule.GeneralObjectId;
MATCHES FOR
    EQUALITY;
BEHAVIOUR
    ggsnFunctionIdBehaviour;
REGISTERED AS {ts32-634Attribute 18};

ggsnFunctionIdBehaviour BEHAVIOUR
DEFINED AS
    "This attribute identifies a ggsnFunction instance.";
```

-- 5.3.19 hlrFunctionId

```
hlrFunctionId ATTRIBUTE
WITH ATTRIBUTE SYNTAX
    TS32-634TypeModule.GeneralObjectId;
MATCHES FOR
    EQUALITY;
BEHAVIOUR
    hlrFunctionIdBehaviour;
REGISTERED AS {ts32-634Attribute 19};

hlrFunctionIdBehaviour BEHAVIOUR
DEFINED AS
    "This attribute identifies a hlrFunction instance.";
```

-- 5.3.20 mscServerFunctionId

```
mscServerFunctionId ATTRIBUTE
WITH ATTRIBUTE SYNTAX
    TS32-634TypeModule.GeneralObjectId;
MATCHES FOR
    EQUALITY;
BEHAVIOUR
    mscServerFunctionIdBehaviour;
REGISTERED AS {ts32-634Attribute 20};

mscServerFunctionIdBehaviour BEHAVIOUR
DEFINED AS
    "This attribute identifies a mscServerFunction instance.";
```

-- 5.3.21 vlrFunctionId

```
vlrFunctionId ATTRIBUTE
WITH ATTRIBUTE SYNTAX
    TS32-634TypeModule.GeneralObjectId;
MATCHES FOR
    EQUALITY;
BEHAVIOUR
    vlrFunctionIdBehaviour;
REGISTERED AS {ts32-634Attribute 21};

vlrFunctionIdBehaviour BEHAVIOUR
DEFINED AS
    "This attribute identifies a vlrFunction instance.";
```

-- 5.3.22 sgsnFunctionId

```
sgsnFunctionId ATTRIBUTE
WITH ATTRIBUTE SYNTAX
    TS32-634TypeModule.GeneralObjectId;
MATCHES FOR
    EQUALITY;
```

```

    BEHAVIOUR
    sgsnFunctionIdBehaviour;
REGISTERED AS {ts32-634Attribute 22};

sgsnFunctionIdBehaviour BEHAVIOUR
DEFINED AS
    "This attribute identifies a sgsnFunction instance.";

```

-- 5.3.23 smsGmscFunctionId

```

smsGmscFunctionId ATTRIBUTE
WITH ATTRIBUTE SYNTAX
    TS32-634TypeModule.GeneralObjectId;
MATCHES FOR
    EQUALITY;
BEHAVIOUR
    smsGmscFunctionIdBehaviour;
REGISTERED AS {ts32-634Attribute 23};

smsGmscFunctionIdBehaviour BEHAVIOUR
DEFINED AS
    "This attribute identifies a smsGmscFunction instance.";

```

-- 5.3.24 smsIwmscFunctionId

```

smsIwmscFunctionId ATTRIBUTE
WITH ATTRIBUTE SYNTAX
    TS32-634TypeModule.GeneralObjectId;
MATCHES FOR
    EQUALITY;
BEHAVIOUR
    smsIwmscFunctionIdBehaviour;
REGISTERED AS {ts32-634Attribute 24};

smsIwmscFunctionIdBehaviour BEHAVIOUR
DEFINED AS
    "This attribute identifies a smsIwmscFunction instance.";

```

-- 5.3.25 gbLinkId

```

gbLinkId ATTRIBUTE
WITH ATTRIBUTE SYNTAX
    TS32-634TypeModule.GeneralObjectId;
MATCHES FOR
    EQUALITY;
BEHAVIOUR
    gbLinkIdBehaviour;
REGISTERED AS {ts32-634Attribute 25};

gbLinkIdBehaviour BEHAVIOUR
DEFINED AS
    "This attribute identifies a gbLink instance.";

```

-- 5.3.26 aLinkId

```

aLinkId ATTRIBUTE
WITH ATTRIBUTE SYNTAX
    TS32-634TypeModule.GeneralObjectId;
MATCHES FOR
    EQUALITY;
BEHAVIOUR
    aLinkIdBehaviour;
REGISTERED AS {ts32-634Attribute 26};

aLinkIdBehaviour BEHAVIOUR
DEFINED AS
    "This attribute identifies a aLink instance.";

```

-- 5.3.27 iucsLinkId

```

iucsLinkId ATTRIBUTE

```

```

WITH ATTRIBUTE SYNTAX
  TS32-634TypeModule.GeneralObjectId;
MATCHES FOR
  EQUALITY;
BEHAVIOUR
  iucsLinkIdBehaviour;
REGISTERED AS {ts32-634Attribute 27};

iucsLinkIdBehaviour BEHAVIOUR
DEFINED AS
  "This attribute identifies a iucsLink instance.";

```

-- 5.3.28 iupsLinkId

```

iupsLinkId ATTRIBUTE
WITH ATTRIBUTE SYNTAX
  TS32-634TypeModule.GeneralObjectId;
MATCHES FOR
  EQUALITY;
BEHAVIOUR
  iupsLinkIdBehaviour;
REGISTERED AS {ts32-634Attribute 28};

iupsLinkIdBehaviour BEHAVIOUR
DEFINED AS
  "This attribute identifies a iupsLink instance.";

```

-- 5.3.29 iubcLinkId

```

iubcLinkId ATTRIBUTE
WITH ATTRIBUTE SYNTAX
  TS32-634TypeModule.GeneralObjectId;
MATCHES FOR
  EQUALITY;
BEHAVIOUR
  iubcLinkIdBehaviour;
REGISTERED AS {ts32-634Attribute 29};

iubcLinkIdBehaviour BEHAVIOUR
DEFINED AS
  "This attribute identifies a iubcLink instance.";

```

-- 5.3.30 csMgwFunctionId

```

csMgwFunctionId ATTRIBUTE
WITH ATTRIBUTE SYNTAX
  TS32-634TypeModule.GeneralObjectId;
MATCHES FOR
  EQUALITY;
BEHAVIOUR
  csMgwFunctionIdBehaviour;
REGISTERED AS {ts32-634Attribute 30};

csMgwFunctionIdBehaviour BEHAVIOUR
DEFINED AS
  "This attribute identifies a csMgwFunction instance.";

```

-- 5.3.31 gmscServerFunctionId

```

gmscServerFunctionId ATTRIBUTE
WITH ATTRIBUTE SYNTAX
  TS32-634TypeModule.GeneralObjectId;
MATCHES FOR
  EQUALITY;
BEHAVIOUR
  gmscServerFunctionIdBehaviour;
REGISTERED AS {ts32-634Attribute 31};

gmscServerFunctionIdBehaviour BEHAVIOUR
DEFINED AS
  "This attribute identifies a gmscServerFunction instance.";

```

-- 5.3.32 mccList

```
mccList ATTRIBUTE
  WITH ATTRIBUTE SYNTAX
    TS32-634TypeModule.MccList;
  MATCHES FOR
    EQUALITY;
  BEHAVIOUR
    mccListBehaviour;
REGISTERED AS {ts32-634Attribute 32};

mccListBehaviour BEHAVIOUR
DEFINED AS
  "List of Mobile Country Codes, MCC. The MCC is part of the PLMN Id (Ref. 3 GPP TS 23.003).";
```

-- 5.3.33 mncList

```
mncList ATTRIBUTE
  WITH ATTRIBUTE SYNTAX
    TS32-634TypeModule.MncList;
  MATCHES FOR
    EQUALITY;
  BEHAVIOUR
    mncListBehaviour;
REGISTERED AS {ts32-634Attribute 33};

mncListBehaviour BEHAVIOUR
DEFINED AS
  "List of Mobile Network Code, MNC. The MNC is part of the PLMN Id (Ref. 3 GPP TS 23.003).";
```

-- 5.3.34 lacList

```
lacList ATTRIBUTE
  WITH ATTRIBUTE SYNTAX
    TS32-634TypeModule.LacList;
  MATCHES FOR
    EQUALITY;
  BEHAVIOUR
    lacListBehaviour;
REGISTERED AS {ts32-634Attribute 34};

lacListBehaviour BEHAVIOUR
DEFINED AS
  "List of Location Area Codes covered by SGSN (Ref. 3 GPP TS 23.003).";
```

-- 5.3.35 sacList

```
sacList ATTRIBUTE
  WITH ATTRIBUTE SYNTAX
    TS32-634TypeModule.SacList;
  MATCHES FOR
    EQUALITY;
  BEHAVIOUR
    sacListBehaviour;
REGISTERED AS {ts32-634Attribute 35};

sacListBehaviour BEHAVIOUR
DEFINED AS
  "List of Service Area Codes covered by SGSN (Ref. 3 GPP TS 23.003).";
```

-- 5.3.36 uraList

-- Void.

-- 5.3.37 gcaList

```
gcaList ATTRIBUTE
  WITH ATTRIBUTE SYNTAX
    TS32-634TypeModule.CgaList;
  MATCHES FOR
```

```
    EQUALITY;
    BEHAVIOUR
    gcaListBehaviour;
REGISTERED AS {ts32-634Attribute 37};

gcaListBehaviour BEHAVIOUR
DEFINED AS
    "List of Group Call Area (Ref. 3 GPP TS 23.003).";
```

-- 5.3.38 mscId

```
mscId ATTRIBUTE
    WITH ATTRIBUTE SYNTAX
    TS32-634TypeModule.GeneralObjectId;
    MATCHES FOR
    EQUALITY;
    BEHAVIOUR
    mscIdBehaviour;
REGISTERED AS {ts32-634Attribute 38};

mscIdBehaviour BEHAVIOUR
DEFINED AS
    "Unique MSC ID (Ref. 3 GPP TS 23.002).";
```

-- 5.3.39 mscServerFunction-GSMcell

```
mscServerFunction-GSMcell ATTRIBUTE
    WITH ATTRIBUTE SYNTAX
    TS32-634TypeModule.GeneralObjectPointer;
    MATCHES FOR
    EQUALITY;
    BEHAVIOUR
    mscServerFunction-GSMcellBehaviour;
REGISTERED AS {ts32-634Attribute 39};

mscServerFunction-GSMcellBehaviour BEHAVIOUR
DEFINED AS
    "This value contains the DN of the related GSMcell instance. This is a reference attribute
    modelling the role (of the association AssociatedWith) that this MscServerFunction
    is associated with to 0-* GSMcell.";
```

-- 5.3.40 mscServerFunction-ExternalGSMcell

```
mscServerFunction-ExternalGSMcell ATTRIBUTE
    WITH ATTRIBUTE SYNTAX
    TS32-634TypeModule.GeneralObjectPointer;
    MATCHES FOR
    EQUALITY;
    BEHAVIOUR
    mscServerFunction-ExternalGSMcellBehaviour;
REGISTERED AS {ts32-634Attribute 40};

mscServerFunction-ExternalGSMcellBehaviour BEHAVIOUR
DEFINED AS
    "This value contains the DN of the related ExternalGSMcell instance. This is a reference
    attribute modelling the role (of the association AssociatedWith) that this MscServerFunction
    is associated with to 0-* ExternalGSMcell.";
```

-- 5.3.41 mscServerFunction-CsMgwFunction

```
mscServerFunction-CsMgwFunction ATTRIBUTE
    WITH ATTRIBUTE SYNTAX
    TS32-634TypeModule.GeneralObjectPointer;
    MATCHES FOR
    EQUALITY;
    BEHAVIOUR
    mscServerFunction-CsMgwFunctionBehaviour;
REGISTERED AS {ts32-634Attribute 41};

mscServerFunction-CsMgwFunctionBehaviour BEHAVIOUR
DEFINED AS
    "This value contains the DN of the related CsMgwFunction instance. This is a reference
    attribute modelling the role (of the association AssociatedWith) that this MscServerFunction
```

is associated with to 0-* CsMgwFunction.";

-- 5.3.42 racList

```
racList ATTRIBUTE
WITH ATTRIBUTE SYNTAX
    TS32-634TypeModule.RacList;
MATCHES FOR
    EQUALITY;
BEHAVIOUR
    racListBehaviour;
REGISTERED AS {ts32-634Attribute 42};

racListBehaviour BEHAVIOUR
DEFINED AS
    "List of Routing Area Codes covered by SGSN (Ref. 3 GPP TS 23.003).";
```

-- 5.3.43 sgsnId

```
sgsnId ATTRIBUTE
WITH ATTRIBUTE SYNTAX
    TS32-634TypeModule.GeneralObjectId;
MATCHES FOR
    EQUALITY;
BEHAVIOUR
    sgsnIdBehaviour;
REGISTERED AS {ts32-634Attribute 43};

sgsnIdBehaviour BEHAVIOUR
DEFINED AS
    "Unique SGSN ID (Ref. 3 GPP TS 23.002).";
```

-- 5.3.44 sgsnFunction-GSMcell

```
sgsnFunction-GSMcell ATTRIBUTE
WITH ATTRIBUTE SYNTAX
    TS32-634TypeModule.GeneralObjectPointer;
MATCHES FOR
    EQUALITY;
BEHAVIOUR
    sgsnFunction-GSMcellBehaviour;
REGISTERED AS {ts32-634Attribute 44};

sgsnFunction-GSMcellBehaviour BEHAVIOUR
DEFINED AS
    "This value contains the DN of the related GSMcell instance. This is a reference attribute
    modelling the role (of the association AssociatedWith) that this SgsnFunction is associated
    with to 0-* GSMcell.";
```

-- 5.3.45 sgsnFunction-ExternalGSMcell

```
sgsnFunction-ExternalGSMcell ATTRIBUTE
WITH ATTRIBUTE SYNTAX
    TS32-634TypeModule.GeneralObjectPointer;
MATCHES FOR
    EQUALITY;
BEHAVIOUR
    sgsnFunction-ExternalGSMcellBehaviour;
REGISTERED AS {ts32-634Attribute 45};

sgsnFunction-ExternalGSMcellBehaviour BEHAVIOUR
DEFINED AS
    "This value contains the DN of the related ExternalGSMcell instance. This is a reference
    attribute modelling the role (of the association AssociatedWith) that this SgsnFunction
    is associated with to 0-* ExternalGSMcell.";
```

-- 5.3.46 connectedBss

```
connectedBss ATTRIBUTE
WITH ATTRIBUTE SYNTAX
    TS32-634TypeModule.GeneralObjectPointer;
```

MATCHES FOR
EQUALITY;
BEHAVIOUR
connectedBssBehaviour;
REGISTERED AS {ts32-634Attribute 46};

connectedBssBehaviour **BEHAVIOUR**
DEFINED AS

"This value contains the DN of the related BssFunction or ExternalBssFunction instance. This is a reference attribute modelling the role (of the association AssociatedWith) that link is connected to 0-1 BssFunction or 0-1 ExternalBssFunction.";

-- 5.3.47 connectedRnc

connectedRnc **ATTRIBUTE**
WITH ATTRIBUTE SYNTAX
TS32-634TypeModule.GeneralObjectPointer;
MATCHES FOR
EQUALITY;
BEHAVIOUR
connectedRncBehaviour;
REGISTERED AS {ts32-634Attribute 47};

connectedRncBehaviour **BEHAVIOUR**
DEFINED AS

"This value contains the DN of the related RncFunction or ExternalRncFunction instance. This is a reference attribute modelling the role (of the association AssociatedWith) that link is connected to 0-1 RncFunction or 0-1 ExternalRncFunction.";

-- 5.3.48 csMgwFunction-MscServerFunction

csMgwFunction-MscServerFunction **ATTRIBUTE**
WITH ATTRIBUTE SYNTAX
TS32-634TypeModule.GeneralObjectPointer;
MATCHES FOR
EQUALITY;
BEHAVIOUR
csMgwFunction-MscServerFunctionBehaviour;
REGISTERED AS {ts32-634Attribute 48};

csMgwFunction-MscServerFunctionBehaviour **BEHAVIOUR**
DEFINED AS

"This value contains the DN of the related mscServerFunction instance. This is a reference attribute modelling the role (of the association AssociatedWith) that this csMgwFunction is associated with to 0-* mscServerFunction.";

-- 5.3.49 csMgwFunction-IucsLink

csMgwFunction-IucsLink **ATTRIBUTE**
WITH ATTRIBUTE SYNTAX
TS32-634TypeModule.GeneralObjectPointer;
MATCHES FOR
EQUALITY;
BEHAVIOUR
csMgwFunction-IucsLinkBehaviour;
REGISTERED AS {ts32-634Attribute 49};

csMgwFunction-IucsLinkBehaviour **BEHAVIOUR**
DEFINED AS

"This value contains the DN of the related IucsLink instance. This is a reference attribute modelling the role (of the association AssociatedWith) that this csMgwFunction is connected to 0-* IucsLink.";

-- 5.3.50 csMgwFunction-Alink

csMgwFunction-Alink **ATTRIBUTE**
WITH ATTRIBUTE SYNTAX
TS32-634TypeModule.GeneralObjectPointer;
MATCHES FOR
EQUALITY;
BEHAVIOUR
csMgwFunction-AlinkBehaviour;
REGISTERED AS {ts32-634Attribute 50};

csMgwFunction-ALinkBehaviour **BEHAVIOUR**
DEFINED AS

"This value contains the DN of the related ALink instance. This is a reference attribute modelling the role (of the association AssociatedWith) that this csMgwFunction is connected to 0-* ALink.";

-- 5.3.51 scscfFunctionId

scscfFunctionId ATTRIBUTE
WITH ATTRIBUTE SYNTAX
TS32-634TypeModule.GeneralObjectId;
MATCHES FOR
EQUALITY;
BEHAVIOUR
scscfFunctionIdBehaviour;
REGISTERED AS {ts32-634Attribute 51};

scscfFunctionIdBehaviour BEHAVIOUR
DEFINED AS
"This attribute identifies a scscfFunction instance.";

-- 5.3.52 pcscfFunctionId

pcscfFunctionId ATTRIBUTE
WITH ATTRIBUTE SYNTAX
TS32-634TypeModule.GeneralObjectId;
MATCHES FOR
EQUALITY;
BEHAVIOUR
pcscfFunctionIdBehaviour;
REGISTERED AS {ts32-634Attribute 52};

pcscfFunctionIdBehaviour BEHAVIOUR
DEFINED AS
"This attribute identifies a pcscfFunction instance.";

-- 5.3.53 icscfFunctionId

icscfFunctionId ATTRIBUTE
WITH ATTRIBUTE SYNTAX
TS32-634TypeModule.GeneralObjectId;
MATCHES FOR
EQUALITY;
BEHAVIOUR
icscfFunctionIdBehaviour;
REGISTERED AS {ts32-634Attribute 53};

icscfFunctionIdBehaviour BEHAVIOUR
DEFINED AS
"This attribute identifies a icscfFunction instance.";

-- 5.3.54 slfFunctionId

slfFunctionId ATTRIBUTE
WITH ATTRIBUTE SYNTAX
TS32-634TypeModule.GeneralObjectId;
MATCHES FOR
EQUALITY;
BEHAVIOUR
slfFunctionIdBehaviour;
REGISTERED AS {ts32-634Attribute 54};

slfFunctionIdBehaviour BEHAVIOUR
DEFINED AS
"This attribute identifies a slfFunction instance.";

-- 5.3.55 bgcfFunctionId

bgcfFunctionId ATTRIBUTE
WITH ATTRIBUTE SYNTAX


```
TS32-634TypeModule.GeneralObjectId;  
MATCHES FOR  
EQUALITY;  
BEHAVIOUR  
bgcfFunctionIdBehaviour;  
REGISTERED AS {ts32-634Attribute 55};  
  
bgcfFunctionIdBehaviour BEHAVIOUR  
DEFINED AS  
"This attribute identifies a bgcfFunction instance.";
```

-- 5.3.56 mrfcFunctionId

```
mrfcFunctionId ATTRIBUTE  
WITH ATTRIBUTE SYNTAX  
TS32-634TypeModule.GeneralObjectId;  
MATCHES FOR  
EQUALITY;  
BEHAVIOUR  
mrfcFunctionIdBehaviour;  
REGISTERED AS {ts32-634Attribute 56};  
  
mrfcFunctionIdBehaviour BEHAVIOUR  
DEFINED AS  
"This attribute identifies a mrfcFunction instance.";
```

-- 5.3.57 asFunctionId

```
asFunctionId ATTRIBUTE  
WITH ATTRIBUTE SYNTAX  
TS32-634TypeModule.GeneralObjectId;  
MATCHES FOR  
EQUALITY;  
BEHAVIOUR  
asFunctionIdBehaviour;  
REGISTERED AS {ts32-634Attribute 57};  
  
asFunctionIdBehaviour BEHAVIOUR  
DEFINED AS  
"This attribute identifies a asFunction instance.";
```

-- 5.3.58 mgcfFunctionId

```
mgcfFunctionId ATTRIBUTE  
WITH ATTRIBUTE SYNTAX  
TS32-634TypeModule.GeneralObjectId;  
MATCHES FOR  
EQUALITY;  
BEHAVIOUR  
mgcfFunctionIdBehaviour;  
REGISTERED AS {ts32-634Attribute 58};  
  
mgcfFunctionIdBehaviour BEHAVIOUR  
DEFINED AS  
"This attribute identifies a mgcfFunction instance.";
```

-- 5.3.59 mrfpFunctionId

```
mrfpFunctionId ATTRIBUTE  
WITH ATTRIBUTE SYNTAX  
TS32-634TypeModule.GeneralObjectId;  
MATCHES FOR  
EQUALITY;  
BEHAVIOUR  
mrfpFunctionIdBehaviour;  
REGISTERED AS {ts32-634Attribute 59};  
  
mrfpFunctionIdBehaviour BEHAVIOUR  
DEFINED AS  
"This attribute identifies a mrfpFunction instance.";
```

-- 5.4 Name Binding

-- 5.4.1 smlcFunction - managedElement

```
smlcFunction-managedElement NAME BINDING
  SUBORDINATE OBJECT CLASS
    smlcFunction;
  NAMED BY SUPERIOR OBJECT CLASS
    "3GPP TS 32.624": managedElement;
  WITH ATTRIBUTE
    smlcFunctionId;
  BEHAVIOUR
    smlcFunction-managedElementBehaviour;
  CREATE
    WITH-REFERENCE-OBJECT, WITH-AUTOMATIC-INSTANCE-NAMING;
  DELETE
    ONLY-IF-NO-CONTAINED-OBJECTS;
REGISTERED AS {ts32-634NameBinding 1};
```

```
smlcFunction-managedElementBehaviour BEHAVIOUR
DEFINED AS
```

"The name binding represents a relationship in which a managedElement contains and controls a smlcFunction. When automatic instance naming is used, the choice of name bindings is left as a local matter.";

-- 5.4.2 gmlcFunction - managedElement

```
gmlcFunction-managedElement NAME BINDING
  SUBORDINATE OBJECT CLASS
    gmlcFunction;
  NAMED BY SUPERIOR OBJECT CLASS
    "3GPP TS 32.624": managedElement;
  WITH ATTRIBUTE
    gmlcFunctionId;
  BEHAVIOUR
    gmlcFunction-managedElementBehaviour;
  CREATE
    WITH-REFERENCE-OBJECT, WITH-AUTOMATIC-INSTANCE-NAMING;
  DELETE
    ONLY-IF-NO-CONTAINED-OBJECTS;
REGISTERED AS {ts32-634NameBinding 2};
```

```
gmlcFunction-managedElementBehaviour BEHAVIOUR
DEFINED AS
```

"The name binding represents a relationship in which a managedElement contains and controls a gmlcFunction. When automatic instance naming is used, the choice of name bindings is left as a local matter.";

-- 5.4.3 scfFunction - managedElement

```
scfFunction-managedElement NAME BINDING
  SUBORDINATE OBJECT CLASS
    scfFunction;
  NAMED BY SUPERIOR OBJECT CLASS
    "3GPP TS 32.624": managedElement;
  WITH ATTRIBUTE
    scfFunctionId;
  BEHAVIOUR
    scfFunction-managedElementBehaviour;
  CREATE
    WITH-REFERENCE-OBJECT, WITH-AUTOMATIC-INSTANCE-NAMING;
  DELETE
    ONLY-IF-NO-CONTAINED-OBJECTS;
REGISTERED AS {ts32-634NameBinding 3};
```

```
scfFunction-managedElementBehaviour BEHAVIOUR
DEFINED AS
```

"The name binding represents a relationship in which a managedElement contains and controls a scfFunction. When automatic instance naming is used, the choice of name bindings is left as a local matter.";

-- 5.4.4 srfFunction - managedElement

```
srfFunction-managedElement NAME BINDING
  SUBORDINATE OBJECT CLASS
    srfFunction;
  NAMED BY SUPERIOR OBJECT CLASS
    "3GPP TS 32.624": managedElement;
  WITH ATTRIBUTE
    srfFunctionId;
  BEHAVIOUR
    srfFunction-managedElementBehaviour;
  CREATE
    WITH-REFERENCE-OBJECT, WITH-AUTOMATIC-INSTANCE-NAMING;
  DELETE
    ONLY-IF-NO-CONTAINED-OBJECTS;
REGISTERED AS {ts32-634NameBinding 4};
```

```
srfFunction-managedElementBehaviour BEHAVIOUR
DEFINED AS
```

"The name binding represents a relationship in which a managedElement contains and controls a srfFunction. When automatic instance naming is used, the choice of name bindings is left as a local matter.";

-- 5.4.5 cbcFunction - managedElement

```
cbcFunction-managedElement NAME BINDING
  SUBORDINATE OBJECT CLASS
    cbcFunction;
  NAMED BY SUPERIOR OBJECT CLASS
    "3GPP TS 32.624": managedElement;
  WITH ATTRIBUTE
    cbcFunctionId;
  BEHAVIOUR
    cbcFunction-managedElementBehaviour;
  CREATE
    WITH-REFERENCE-OBJECT, WITH-AUTOMATIC-INSTANCE-NAMING;
  DELETE
    ONLY-IF-NO-CONTAINED-OBJECTS;
REGISTERED AS {ts32-634NameBinding 5};
```

```
cbcFunction-managedElementBehaviour BEHAVIOUR
DEFINED AS
```

"The name binding represents a relationship in which a managedElement contains and controls a cbcFunction. When automatic instance naming is used, the choice of name bindings is left as a local matter.";

-- 5.4.6 cgfFunction - managedElement

```
cgfFunction-managedElement NAME BINDING
  SUBORDINATE OBJECT CLASS
    cgfFunction;
  NAMED BY SUPERIOR OBJECT CLASS
    "3GPP TS 32.624": managedElement;
  WITH ATTRIBUTE
    cgfFunctionId;
  BEHAVIOUR
    cgfFunction-managedElementBehaviour;
  CREATE
    WITH-REFERENCE-OBJECT, WITH-AUTOMATIC-INSTANCE-NAMING;
  DELETE
    ONLY-IF-NO-CONTAINED-OBJECTS;
REGISTERED AS {ts32-634NameBinding 6};
```

```
cgfFunction-managedElementBehaviour BEHAVIOUR
DEFINED AS
```

"The name binding represents a relationship in which a managedElement contains and controls a cgfFunction. When automatic instance naming is used, the choice of name bindings is left as a local matter.";

-- 5.4.7 imsMgwFunction - managedElement

```
imsMgwFunction-managedElement NAME BINDING
  SUBORDINATE OBJECT CLASS
```

```

    imsMgwFunction;
NAMED BY SUPERIOR OBJECT CLASS
    "3GPP TS 32.624": managedElement;
WITH ATTRIBUTE
    imsMgwFunctionId;
BEHAVIOUR
    imsMgwFunction-managedElementBehaviour;
CREATE
    WITH-REFERENCE-OBJECT, WITH-AUTOMATIC-INSTANCE-NAMING;
DELETE
    ONLY-IF-NO-CONTAINED-OBJECTS;
REGISTERED AS {ts32-634NameBinding 70503};

imsMgwFunction-managedElementBehaviour BEHAVIOUR
DEFINED AS
    "The name binding represents a relationship in which a managedElement contains and controls an
    mimsMgwFunction. When automatic instance naming is used, the choice of name bindings is left as
    a local matter.";

```

-- 5.4.8 gmscFunction - managedElement

```

gmscFunction-managedElement NAME BINDING
SUBORDINATE OBJECT CLASS
    gmscFunction;
NAMED BY SUPERIOR OBJECT CLASS
    "3GPP TS 32.624": managedElement;
WITH ATTRIBUTE
    gmscFunctionId;
BEHAVIOUR
    gmscFunction-managedElementBehaviour;
CREATE
    WITH-REFERENCE-OBJECT, WITH-AUTOMATIC-INSTANCE-NAMING;
DELETE
    ONLY-IF-NO-CONTAINED-OBJECTS;
REGISTERED AS {ts32-634NameBinding 8};

gmscFunction-managedElementBehaviour BEHAVIOUR
DEFINED AS
    "The name binding represents a relationship in which a managedElement contains and controls a
    gmscFunction. When automatic instance naming is used, the choice of name bindings is left as
    a local matter.";

```

-- 5.4.9 iwfFunction - managedElement

```

iwfFunction-managedElement NAME BINDING
SUBORDINATE OBJECT CLASS
    iwfFunction;
NAMED BY SUPERIOR OBJECT CLASS
    "3GPP TS 32.624": managedElement;
WITH ATTRIBUTE
    iwfFunctionId;
BEHAVIOUR
    iwfFunction-managedElementBehaviour;
CREATE
    WITH-REFERENCE-OBJECT, WITH-AUTOMATIC-INSTANCE-NAMING;
DELETE
    ONLY-IF-NO-CONTAINED-OBJECTS;
REGISTERED AS {ts32-634NameBinding 9};

iwfFunction-managedElementBehaviour BEHAVIOUR
DEFINED AS
    "The name binding represents a relationship in which a managedElement contains and controls a
    iwfFunction. When automatic instance naming is used, the choice of name bindings is left as
    a local matter.";

```

-- 5.4.10 mnpSrfFunction - managedElement

```

mnpSrfFunction-managedElement NAME BINDING
SUBORDINATE OBJECT CLASS
    mnpSrfFunction;
NAMED BY SUPERIOR OBJECT CLASS
    "3GPP TS 32.624": managedElement;
WITH ATTRIBUTE
    mnpSrfFunctionId;

```

```

BEHAVIOUR
  mnpSrfFunction-managedElementBehaviour;
CREATE
  WITH-REFERENCE-OBJECT, WITH-AUTOMATIC-INSTANCE-NAMING;
DELETE
  ONLY-IF-NO-CONTAINED-OBJECTS;
REGISTERED AS {ts32-634NameBinding 10};

mnpSrfFunction-managedElementBehaviour BEHAVIOUR
DEFINED AS
  "The name binding represents a relationship in which a managedElement contains and controls a
  mnpSrfFunction. When automatic instance naming is used, the choice of name bindings is left as
  a local matter.";

```

-- 5.4.11 npdbFunction - managedElement

```

npdbFunction-managedElement NAME BINDING
SUBORDINATE OBJECT CLASS
  npdbFunction;
NAMED BY SUPERIOR OBJECT CLASS
  "3GPP TS 32.624": managedElement;
WITH ATTRIBUTE
  npdbFunctionId;
BEHAVIOUR
  npdbFunction-managedElementBehaviour;
CREATE
  WITH-REFERENCE-OBJECT, WITH-AUTOMATIC-INSTANCE-NAMING;
DELETE
  ONLY-IF-NO-CONTAINED-OBJECTS;
REGISTERED AS {ts32-634NameBinding 11};

npdbFunction-managedElementBehaviour BEHAVIOUR
DEFINED AS
  "The name binding represents a relationship in which a managedElement contains and controls a
  npdbFunction. When automatic instance naming is used, the choice of name bindings is left as
  a local matter.";

```

-- 5.4.12 rSgwFunction - managedElement

```

rSgwFunction-managedElement NAME BINDING
SUBORDINATE OBJECT CLASS
  rSgwFunction;
NAMED BY SUPERIOR OBJECT CLASS
  "3GPP TS 32.624": managedElement;
WITH ATTRIBUTE
  rSgwFunctionId;
BEHAVIOUR
  rSgwFunction-managedElementBehaviour;
CREATE
  WITH-REFERENCE-OBJECT, WITH-AUTOMATIC-INSTANCE-NAMING;
DELETE
  ONLY-IF-NO-CONTAINED-OBJECTS;
REGISTERED AS {ts32-634NameBinding 12};

rSgwFunction-managedElementBehaviour BEHAVIOUR
DEFINED AS
  "The name binding represents a relationship in which a managedElement contains and controls a
  rSgwFunction. When automatic instance naming is used, the choice of name bindings is left as
  a local matter.";

```

-- 5.4.13 ssfFunction - managedElement

```

ssfFunction-managedElement NAME BINDING
SUBORDINATE OBJECT CLASS
  ssfFunction;
NAMED BY SUPERIOR OBJECT CLASS
  "3GPP TS 32.624": managedElement;
WITH ATTRIBUTE
  ssfFunctionId;
BEHAVIOUR
  ssfFunction-managedElementBehaviour;
CREATE
  WITH-REFERENCE-OBJECT, WITH-AUTOMATIC-INSTANCE-NAMING;
DELETE

```

```
ONLY-IF-NO-CONTAINED-OBJECTS;  
REGISTERED AS {ts32-634NameBinding 13};
```

```
ssfFunction-managedElementBehaviour BEHAVIOUR  
DEFINED AS
```

```
"The name binding represents a relationship in which a managedElement contains and controls a  
ssfFunction. When automatic instance naming is used, the choice of name bindings is left as  
a local matter.";
```

-- 5.4.14 bsFunction - managedElement

```
bsFunction-managedElement NAME BINDING  
SUBORDINATE OBJECT CLASS  
bsFunction;  
NAMED BY SUPERIOR OBJECT CLASS  
"3GPP TS 32.624": managedElement;  
WITH ATTRIBUTE  
bsFunctionId;  
BEHAVIOUR  
bsFunction-managedElementBehaviour;  
CREATE  
WITH-REFERENCE-OBJECT, WITH-AUTOMATIC-INSTANCE-NAMING;  
DELETE  
ONLY-IF-NO-CONTAINED-OBJECTS;  
REGISTERED AS {ts32-634NameBinding 14};
```

```
bsFunction-managedElementBehaviour BEHAVIOUR  
DEFINED AS
```

```
"The name binding represents a relationship in which a managedElement contains and controls a  
bsFunction. When automatic instance naming is used, the choice of name bindings is left as  
a local matter.";
```

-- 5.4.15 aucFunction - managedElement

```
aucFunction-managedElement NAME BINDING  
SUBORDINATE OBJECT CLASS  
aucFunction;  
NAMED BY SUPERIOR OBJECT CLASS  
"3GPP TS 32.624": managedElement;  
WITH ATTRIBUTE  
aucFunctionId;  
BEHAVIOUR  
aucFunction-managedElementBehaviour;  
CREATE  
WITH-REFERENCE-OBJECT, WITH-AUTOMATIC-INSTANCE-NAMING;  
DELETE  
ONLY-IF-NO-CONTAINED-OBJECTS;  
REGISTERED AS {ts32-634NameBinding 15};
```

```
aucFunction-managedElementBehaviour BEHAVIOUR  
DEFINED AS
```

```
"The name binding represents a relationship in which a managedElement contains and controls a  
aucFunction. When automatic instance naming is used, the choice of name bindings is left as  
a local matter.";
```

-- 5.4.16 bgFunction - managedElement

```
bgFunction-managedElement NAME BINDING  
SUBORDINATE OBJECT CLASS  
bgFunction;  
NAMED BY SUPERIOR OBJECT CLASS  
"3GPP TS 32.624": managedElement;  
WITH ATTRIBUTE  
bgFunctionId;  
BEHAVIOUR  
bgFunction-managedElementBehaviour;  
CREATE  
WITH-REFERENCE-OBJECT, WITH-AUTOMATIC-INSTANCE-NAMING;  
DELETE  
ONLY-IF-NO-CONTAINED-OBJECTS;  
REGISTERED AS {ts32-634NameBinding 16};
```

```
bgFunction-managedElementBehaviour BEHAVIOUR  
DEFINED AS
```

"The name binding represents a relationship in which a managedElement contains and controls a bgFunction. When automatic instance naming is used, the choice of name bindings is left as a local matter.";

-- 5.4.17 eirFunction - managedElement

```
eirFunction-managedElement NAME BINDING
SUBORDINATE OBJECT CLASS
    eirFunction;
NAMED BY SUPERIOR OBJECT CLASS
    "3GPP TS 32.624": managedElement;
WITH ATTRIBUTE
    eirFunctionId;
BEHAVIOUR
    eirFunction-managedElementBehaviour;
CREATE
    WITH-REFERENCE-OBJECT, WITH-AUTOMATIC-INSTANCE-NAMING;
DELETE
    ONLY-IF-NO-CONTAINED-OBJECTS;
REGISTERED AS {ts32-634NameBinding 17};
```

```
eirFunction-managedElementBehaviour BEHAVIOUR
DEFINED AS
    "The name binding represents a relationship in which a managedElement contains and controls a
    eirFunction. When automatic instance naming is used, the choice of name bindings is left as
    a local matter.";
```

-- 5.4.18 ggsnFunction - managedElement

```
ggsnFunction-managedElement NAME BINDING
SUBORDINATE OBJECT CLASS
    ggsnFunction;
NAMED BY SUPERIOR OBJECT CLASS
    "3GPP TS 32.624": managedElement;
WITH ATTRIBUTE
    ggsnFunctionId;
BEHAVIOUR
    ggsnFunction-managedElementBehaviour;
CREATE
    WITH-REFERENCE-OBJECT, WITH-AUTOMATIC-INSTANCE-NAMING;
DELETE
    ONLY-IF-NO-CONTAINED-OBJECTS;
REGISTERED AS {ts32-634NameBinding 18};
```

```
ggsnFunction-managedElementBehaviour BEHAVIOUR
DEFINED AS
    "The name binding represents a relationship in which a managedElement contains and controls a
    ggsnFunction. When automatic instance naming is used, the choice of name bindings is left as
    a local matter.";
```

-- 5.4.19 hlrFunction - managedElement

```
hlrFunction-managedElement NAME BINDING
SUBORDINATE OBJECT CLASS
    hlrFunction;
NAMED BY SUPERIOR OBJECT CLASS
    "3GPP TS 32.624": managedElement;
WITH ATTRIBUTE
    hlrFunctionId;
BEHAVIOUR
    hlrFunction-managedElementBehaviour;
CREATE
    WITH-REFERENCE-OBJECT, WITH-AUTOMATIC-INSTANCE-NAMING;
DELETE
    ONLY-IF-NO-CONTAINED-OBJECTS;
REGISTERED AS {ts32-634NameBinding 19};
```

```
hlrFunction-managedElementBehaviour BEHAVIOUR
DEFINED AS
    "The name binding represents a relationship in which a managedElement contains and controls a
    hlrFunction. When automatic instance naming is used, the choice of name bindings is left as
    a local matter.";
```

-- 5.4.20 mscServerFunction - managedElement

```
mscServerFunction-managedElement NAME BINDING
  SUBORDINATE OBJECT CLASS
    mscFunction;
  NAMED BY SUPERIOR OBJECT CLASS
    "3GPP TS 32.624": managedElement;
  WITH ATTRIBUTE
    mscServerFunctionId;
  BEHAVIOUR
    mscServerFunction-managedElementBehaviour;
  CREATE
    WITH-REFERENCE-OBJECT, WITH-AUTOMATIC-INSTANCE-NAMING;
  DELETE
    ONLY-IF-NO-CONTAINED-OBJECTS;
  REGISTERED AS {ts32-634NameBinding 20};
```

```
mscServerFunction-managedElementBehaviour BEHAVIOUR
DEFINED AS
  "The name binding represents a relationship in which a managedElement contains and controls a
  mscServerFunction. When automatic instance naming is used, the choice of name bindings is left
  as a local matter.";
```

-- 5.4.21 vlrFunction - managedElement

```
vlrFunction-managedElement NAME BINDING
  SUBORDINATE OBJECT CLASS
    vlrFunction;
  NAMED BY SUPERIOR OBJECT CLASS
    "3GPP TS 32.624": managedElement;
  WITH ATTRIBUTE
    vlrFunctionId;
  BEHAVIOUR
    vlrFunction-managedElementBehaviour;
  CREATE
    WITH-REFERENCE-OBJECT, WITH-AUTOMATIC-INSTANCE-NAMING;
  DELETE
    ONLY-IF-NO-CONTAINED-OBJECTS;
  REGISTERED AS {ts32-634NameBinding 21};
```

```
vlrFunction-managedElementBehaviour BEHAVIOUR
DEFINED AS
  "The name binding represents a relationship in which a managedElement contains and controls a
  vlrFunction. When automatic instance naming is used, the choice of name bindings is left as
  a local matter.";
```

-- 5.4.22 sgsnFunction - managedElement

```
sgsnFunction-managedElement NAME BINDING
  SUBORDINATE OBJECT CLASS
    sgsnFunction;
  NAMED BY SUPERIOR OBJECT CLASS
    "3GPP TS 32.624": managedElement;
  WITH ATTRIBUTE
    sgsnFunctionId;
  BEHAVIOUR
    sgsnFunction-managedElementBehaviour;
  CREATE
    WITH-REFERENCE-OBJECT, WITH-AUTOMATIC-INSTANCE-NAMING;
  DELETE
    ONLY-IF-NO-CONTAINED-OBJECTS;
  REGISTERED AS {ts32-634NameBinding 22};
```

```
sgsnFunction-managedElementBehaviour BEHAVIOUR
DEFINED AS
  "The name binding represents a relationship in which a managedElement contains and controls a
  sgsnFunction. When automatic instance naming is used, the choice of name bindings is left as
  a local matter.";
```

-- 5.4.23 smsGmscFunction - managedElement

```
smsGmscFunction-managedElement NAME BINDING
  SUBORDINATE OBJECT CLASS
```



```

    smsGmscFunction;
NAMED BY SUPERIOR OBJECT CLASS
    "3GPP TS 32.624": managedElement;
WITH ATTRIBUTE
    smsGmscFunctionId;
BEHAVIOUR
    smsGmscFunction-managedElementBehaviour;
CREATE
    WITH-REFERENCE-OBJECT, WITH-AUTOMATIC-INSTANCE-NAMING;
DELETE
    ONLY-IF-NO-CONTAINED-OBJECTS;
REGISTERED AS {ts32-634NameBinding 23};

smsGmscFunction-managedElementBehaviour BEHAVIOUR
DEFINED AS
    "The name binding represents a relationship in which a managedElement contains and controls a
    smsGmscFunction. When automatic instance naming is used, the choice of name bindings is left as
    a local matter.";

```

-- 5.4.24 smsIwmscFunction - managedElement

```

smsIwmscFunction-managedElement NAME BINDING
SUBORDINATE OBJECT CLASS
    smsIwmscFunction;
NAMED BY SUPERIOR OBJECT CLASS
    "3GPP TS 32.624": managedElement;
WITH ATTRIBUTE
    smsIwmscFunctionId;
BEHAVIOUR
    smsIwmscFunction-managedElementBehaviour;
CREATE
    WITH-REFERENCE-OBJECT, WITH-AUTOMATIC-INSTANCE-NAMING;
DELETE
    ONLY-IF-NO-CONTAINED-OBJECTS;
REGISTERED AS {ts32-634NameBinding 24};

smsIwmscFunction-managedElementBehaviour BEHAVIOUR
DEFINED AS
    "The name binding represents a relationship in which a managedElement contains and controls a
    smsIwmscFunction. When automatic instance naming is used, the choice of name bindings is left as
    a local matter.";

```

-- 5.4.25 gbLink - managedElement

```

gbLink-managedElement NAME BINDING
SUBORDINATE OBJECT CLASS
    gbLink;
NAMED BY SUPERIOR OBJECT CLASS
    "3GPP TS 32.624": managedElement;
WITH ATTRIBUTE
    gbLinkId;
BEHAVIOUR
    gbLink-managedElementBehaviour;
CREATE
    WITH-REFERENCE-OBJECT, WITH-AUTOMATIC-INSTANCE-NAMING;
DELETE
    ONLY-IF-NO-CONTAINED-OBJECTS;
REGISTERED AS {ts32-634NameBinding 25};

gbLink-managedElementBehaviour BEHAVIOUR
DEFINED AS
    "The name binding represents a relationship in which a managedElement contains and controls a
    gbLink. When automatic instance naming is used, the choice of name bindings is left as
    a local matter.";

```

-- 5.4.26 aLink - managedElement

```

aLink-managedElement NAME BINDING
SUBORDINATE OBJECT CLASS
    aLink;
NAMED BY SUPERIOR OBJECT CLASS
    "3GPP TS 32.624": managedElement;
WITH ATTRIBUTE
    aLinkId;

```

```

BEHAVIOUR
    aLink-managedElementBehaviour;
CREATE
    WITH-REFERENCE-OBJECT, WITH-AUTOMATIC-INSTANCE-NAMING;
DELETE
    ONLY-IF-NO-CONTAINED-OBJECTS;
REGISTERED AS {ts32-634NameBinding 26};

aLink-managedElementBehaviour BEHAVIOUR
DEFINED AS
    "The name binding represents a relationship in which a managedElement contains and controls a
    aLink. When automatic instance naming is used, the choice of name bindings is left as
    a local matter.";

```

-- 5.4.27 iucsLink - managedElement

```

iucsLink-managedElement NAME BINDING
SUBORDINATE OBJECT CLASS
    iucsLink;
NAMED BY SUPERIOR OBJECT CLASS
    "3GPP TS 32.624": managedElement;
WITH ATTRIBUTE
    iucsLinkId;
BEHAVIOUR
    iucsLink-managedElementBehaviour;
CREATE
    WITH-REFERENCE-OBJECT, WITH-AUTOMATIC-INSTANCE-NAMING;
DELETE
    ONLY-IF-NO-CONTAINED-OBJECTS;
REGISTERED AS {ts32-634NameBinding 27};

iucsLink-managedElementBehaviour BEHAVIOUR
DEFINED AS
    "The name binding represents a relationship in which a managedElement contains and controls a
    iucsLink. When automatic instance naming is used, the choice of name bindings is left as
    a local matter.";

```

-- 5.4.28 iupsLink - managedElement

```

iupsLink-managedElement NAME BINDING
SUBORDINATE OBJECT CLASS
    iupsLink;
NAMED BY SUPERIOR OBJECT CLASS
    "3GPP TS 32.624": managedElement;
WITH ATTRIBUTE
    iupsLinkId;
BEHAVIOUR
    iupsLink-managedElementBehaviour;
CREATE
    WITH-REFERENCE-OBJECT, WITH-AUTOMATIC-INSTANCE-NAMING;
DELETE
    ONLY-IF-NO-CONTAINED-OBJECTS;
REGISTERED AS {ts32-634NameBinding 28};

iupsLink-managedElementBehaviour BEHAVIOUR
DEFINED AS
    "The name binding represents a relationship in which a managedElement contains and controls a
    iupsLink. When automatic instance naming is used, the choice of name bindings is left as
    a local matter.";

```

-- 5.4.29 iubcLink - managedElement

```

iubcLink-managedElement NAME BINDING
SUBORDINATE OBJECT CLASS
    iubcLink;
NAMED BY SUPERIOR OBJECT CLASS
    "3GPP TS 32.624": managedElement;
WITH ATTRIBUTE
    iubcLinkId;
BEHAVIOUR
    iubcLink-managedElementBehaviour;
CREATE
    WITH-REFERENCE-OBJECT, WITH-AUTOMATIC-INSTANCE-NAMING;
DELETE

```

```
ONLY-IF-NO-CONTAINED-OBJECTS;  
REGISTERED AS {ts32-634NameBinding 29};
```

```
iubcLink-managedElementBehaviour BEHAVIOUR  
DEFINED AS
```

```
"The name binding represents a relationship in which a managedElement contains and controls a  
iubcLink. When automatic instance naming is used, the choice of name bindings is left as  
a local matter.";
```

-- 5.4.30 gmscServerFunction - managedElement

```
gmscServerFunction-managedElement NAME BINDING  
SUBORDINATE OBJECT CLASS  
gmscServerFunction;  
NAMED BY SUPERIOR OBJECT CLASS  
"3GPP TS 32.624": managedElement;  
WITH ATTRIBUTE  
gmscServerFunctionId;  
BEHAVIOUR  
gmscServerFunction-managedElementBehaviour;  
CREATE  
WITH-REFERENCE-OBJECT, WITH-AUTOMATIC-INSTANCE-NAMING;  
DELETE  
ONLY-IF-NO-CONTAINED-OBJECTS;  
REGISTERED AS {ts32-634NameBinding 30};
```

```
gmscServerFunction-managedElementBehaviour BEHAVIOUR  
DEFINED AS
```

```
"The name binding represents a relationship in which a managedElement contains and controls a  
gmscServerFunction. When automatic instance naming is used, the choice of name bindings is left  
as a local matter.";
```

-- 5.4.31 csMgwFunction - managedElement

```
csMgwFunction-managedElement NAME BINDING  
SUBORDINATE OBJECT CLASS  
csMgwFunction;  
NAMED BY SUPERIOR OBJECT CLASS  
"3GPP TS 32.624": managedElement;  
WITH ATTRIBUTE  
csMgwFunctionId;  
BEHAVIOUR  
csMgwFunction-managedElementBehaviour;  
CREATE  
WITH-REFERENCE-OBJECT, WITH-AUTOMATIC-INSTANCE-NAMING;  
DELETE  
ONLY-IF-NO-CONTAINED-OBJECTS;  
REGISTERED AS {ts32-634NameBinding 31};
```

```
csMgwFunction-managedElementBehaviour BEHAVIOUR  
DEFINED AS
```

```
"The name binding represents a relationship in which a managedElement contains and controls a  
csMgwFunction. When automatic instance naming is used, the choice of name bindings is left as  
a local matter.";
```

-- 5.4.32 scscfFunction - managedElement

```
scscfFunction-managedElement NAME BINDING  
SUBORDINATE OBJECT CLASS  
scscfFunction;  
NAMED BY SUPERIOR OBJECT CLASS  
"3GPP TS 32.624": managedElement;  
WITH ATTRIBUTE  
scscfFunctionId;  
BEHAVIOUR  
scscfFunction-managedElementBehaviour;  
CREATE  
WITH-REFERENCE-OBJECT, WITH-AUTOMATIC-INSTANCE-NAMING;  
DELETE  
ONLY-IF-NO-CONTAINED-OBJECTS;  
REGISTERED AS {ts32-634NameBinding 32};
```

```
scscfFunction-managedElementBehaviour BEHAVIOUR  
DEFINED AS
```

"The name binding represents a relationship in which a managedElement contains and controls a scscfFunction. When automatic instance naming is used, the choice of name bindings is left as a local matter.";

-- 5.4.33 pcscfFunction - managedElement

```
pcscfFunction-managedElement NAME BINDING  
SUBORDINATE OBJECT CLASS  
pcscfFunction;  
NAMED BY SUPERIOR OBJECT CLASS  
"3GPP TS 32.624": managedElement;  
WITH ATTRIBUTE  
pcscfFunctionId;  
BEHAVIOUR  
pcscfFunction-managedElementBehaviour;  
CREATE  
WITH-REFERENCE-OBJECT, WITH-AUTOMATIC-INSTANCE-NAMING;  
DELETE  
ONLY-IF-NO-CONTAINED-OBJECTS;  
REGISTERED AS {ts32-634NameBinding 33};
```

```
pcscfFunction-managedElementBehaviour BEHAVIOUR  
DEFINED AS  
"The name binding represents a relationship in which a managedElement contains and controls a pcscfFunction. When automatic instance naming is used, the choice of name bindings is left as a local matter.";
```

-- 5.4.34 icscfFunction - managedElement

```
icscfFunction-managedElement NAME BINDING  
SUBORDINATE OBJECT CLASS  
icscfFunction;  
NAMED BY SUPERIOR OBJECT CLASS  
"3GPP TS 32.624": managedElement;  
WITH ATTRIBUTE  
icscfFunctionId;  
BEHAVIOUR  
icscfFunction-managedElementBehaviour;  
CREATE  
WITH-REFERENCE-OBJECT, WITH-AUTOMATIC-INSTANCE-NAMING;  
DELETE  
ONLY-IF-NO-CONTAINED-OBJECTS;  
REGISTERED AS {ts32-634NameBinding 34};
```

```
icscfFunction-managedElementBehaviour BEHAVIOUR  
DEFINED AS  
"The name binding represents a relationship in which a managedElement contains and controls a icscfFunction. When automatic instance naming is used, the choice of name bindings is left as a local matter.";
```

-- 5.4.35 slfFunction - managedElement

```
slfFunction-managedElement NAME BINDING  
SUBORDINATE OBJECT CLASS  
slfFunction;  
NAMED BY SUPERIOR OBJECT CLASS  
"3GPP TS 32.624": managedElement;  
WITH ATTRIBUTE  
slfFunctionId;  
BEHAVIOUR  
slfFunction-managedElementBehaviour;  
CREATE  
WITH-REFERENCE-OBJECT, WITH-AUTOMATIC-INSTANCE-NAMING;  
DELETE  
ONLY-IF-NO-CONTAINED-OBJECTS;  
REGISTERED AS {ts32-634NameBinding 35};
```

```
slfFunction-managedElementBehaviour BEHAVIOUR  
DEFINED AS  
"The name binding represents a relationship in which a managedElement contains and controls a slfFunction. When automatic instance naming is used, the choice of name bindings is left as a local matter.";
```

-- 5.4.36 bgcfFunction - managedElement

```
bgcfFunction-managedElement NAME BINDING  
SUBORDINATE OBJECT CLASS  
bgcfFunction;  
NAMED BY SUPERIOR OBJECT CLASS  
"3GPP TS 32.624": managedElement;  
WITH ATTRIBUTE  
bgcfFunctionId;  
BEHAVIOUR  
bgcfFunction-managedElementBehaviour;  
CREATE  
WITH-REFERENCE-OBJECT, WITH-AUTOMATIC-INSTANCE-NAMING;  
DELETE  
ONLY-IF-NO-CONTAINED-OBJECTS;  
REGISTERED AS {ts32-634NameBinding 36};
```

```
bgcfFunction-managedElementBehaviour BEHAVIOUR  
DEFINED AS
```

"The name binding represents a relationship in which a managedElement contains and controls a bgcfFunction. When automatic instance naming is used, the choice of name bindings is left as a local matter.";

-- 5.4.37 mrfcFunction - managedElement

```
mrfcFunction-managedElement NAME BINDING  
SUBORDINATE OBJECT CLASS  
mrfcFunction;  
NAMED BY SUPERIOR OBJECT CLASS  
"3GPP TS 32.624": managedElement;  
WITH ATTRIBUTE  
mrfcFunctionId;  
BEHAVIOUR  
mrfcFunction-managedElementBehaviour;  
CREATE  
WITH-REFERENCE-OBJECT, WITH-AUTOMATIC-INSTANCE-NAMING;  
DELETE  
ONLY-IF-NO-CONTAINED-OBJECTS;  
REGISTERED AS {ts32-634NameBinding 37};
```

```
mrfcFunction-managedElementBehaviour BEHAVIOUR  
DEFINED AS
```

"The name binding represents a relationship in which a managedElement contains and controls a mrfcFunction. When automatic instance naming is used, the choice of name bindings is left as a local matter.";

-- 5.4.38 asFunction - managedElement

```
asFunction-managedElement NAME BINDING  
SUBORDINATE OBJECT CLASS  
asFunction;  
NAMED BY SUPERIOR OBJECT CLASS  
"3GPP TS 32.624": managedElement;  
WITH ATTRIBUTE  
asFunctionId;  
BEHAVIOUR  
asFunction-managedElementBehaviour;  
CREATE  
WITH-REFERENCE-OBJECT, WITH-AUTOMATIC-INSTANCE-NAMING;  
DELETE  
ONLY-IF-NO-CONTAINED-OBJECTS;  
REGISTERED AS {ts32-634NameBinding 38};
```

```
asFunction-managedElementBehaviour BEHAVIOUR  
DEFINED AS
```

"The name binding represents a relationship in which a managedElement contains and controls a asFunction. When automatic instance naming is used, the choice of name bindings is left as a local matter.";

-- 5.4.39 mgcfFunction - managedElement

```
mgcfFunction-managedElement NAME BINDING  
SUBORDINATE OBJECT CLASS
```

```

    mgcfFunction;
    NAMED BY SUPERIOR OBJECT CLASS
    "3GPP TS 32.624": managedElement;
    WITH ATTRIBUTE
    mgcfFunctionId;
    BEHAVIOUR
    mgcfFunction-managedElementBehaviour;
    CREATE
    WITH-REFERENCE-OBJECT, WITH-AUTOMATIC-INSTANCE-NAMING;
    DELETE
    ONLY-IF-NO-CONTAINED-OBJECTS;
    REGISTERED AS {ts32-634NameBinding 39};

```

```

mgcfFunction-managedElementBehaviour BEHAVIOUR
DEFINED AS

```

"The name binding represents a relationship in which a managedElement contains and controls a mgcfFunction. When automatic instance naming is used, the choice of name bindings is left as a local matter.";

-- 5.4.40 mrfpFunction - managedElement

```

mrfpFunction-managedElement NAME BINDING
SUBORDINATE OBJECT CLASS
    mrfpFunction;
    NAMED BY SUPERIOR OBJECT CLASS
    "3GPP TS 32.624": managedElement;
    WITH ATTRIBUTE
    mrfpFunctionId;
    BEHAVIOUR
    mrfpFunction-managedElementBehaviour;
    CREATE
    WITH-REFERENCE-OBJECT, WITH-AUTOMATIC-INSTANCE-NAMING;
    DELETE
    ONLY-IF-NO-CONTAINED-OBJECTS;
    REGISTERED AS {ts32-634NameBinding 40};

```

```

mrfpFunction-managedElementBehaviour BEHAVIOUR
DEFINED AS

```

"The name binding represents a relationship in which a managedElement contains and controls a mrfpFunction. When automatic instance naming is used, the choice of name bindings is left as a local matter.";

End of Change in Clause 5

Change in Clause 6

-- 6 ASN.1 Definitions

```

TS32-634TypeModule {ccitt (0) identified-organization (4) etsi (0) mobileDomain (0) umts-Operation-
Maintenance (3) ts32-634 (634) informationModel (0) asn1Module (2) version1 (1)}

```

```

DEFINITIONS IMPLICIT TAGS ::=

```

```

BEGIN

```

```

--EXPORTS everything

```

```

IMPORTS

```

```

GeneralObjectId, GeneralObjectPointer
    FROM TS32-624TypeModule {ccitt(0) identified-organization(4) etsi(0) mobileDomain(0)
    umts-Operation-Maintenance(3) ts32-624(624) informationModel(0) asn1Module(2) version1(1)}

```

```

MobileCountryCode, MobileNetworkCode, LocationAreaCode
    FROM GSM1220TypeModule {ccitt(0) identified-organization(4) etsi(0) mobileDomain(0)
    gsm-Operation-Maintenance(3) gsm-12-20(20) informationModel(0) asn1Module(2)

```

```
asn1TypeModule(0)};
```

```
-- 3GPP TS 32.634 related Object Identifiers
```

```
baseNodeUMTS          OBJECT IDENTIFIER ::= {itu-t(0) identified-organization(4) etsi(0)
                        mobileDomain(0) umts-Operation-Maintenance(3)}

ts32-634              OBJECT IDENTIFIER ::= {baseNodeUMTS ts32-634(634)}
ts32-634InfoModel    OBJECT IDENTIFIER ::= {ts32-634 informationModel(0)}

ts32-634ObjectClass  OBJECT IDENTIFIER ::= {ts32-634InfoModel managedObjectClass(3)}
ts32-634Package      OBJECT IDENTIFIER ::= {ts32-634InfoModel package(4)}
ts32-634Parameter    OBJECT IDENTIFIER ::= {ts32-634InfoModel parameter(5)}
ts32-634NameBinding  OBJECT IDENTIFIER ::= {ts32-634InfoModel nameBinding(6)}
ts32-634Attribute    OBJECT IDENTIFIER ::= {ts32-634InfoModel attribute(7)}
ts32-634Action       OBJECT IDENTIFIER ::= {ts32-634InfoModel action(9)}
ts32-634Notification OBJECT IDENTIFIER ::= {ts32-634InfoModel notification(10)}
```

```
-- Start of 3GPP SA5 own definitions
```

```
MccList ::= SET OF MobileCountryCode
```

```
MncList ::= SET OF MobileNetworkCode
```

```
LacList ::= SET OF LocationAreaCode
```

```
Rac ::= INTEGER
```

```
RacList ::= SET OF Rac
```

```
Sac ::= INTEGER
```

```
SacList ::= SET OF Sac
```

```
Cga ::= INTEGER
```

```
CgaList ::= SET OF Cga
```

```
END -- of TS32-634TypeModule
```

End of Change in Clause 6

Change in Clause Annex A

Annex A (informative): List of assigned Object Identifiers

This annex provides a list with all Object Identifiers (OIDs) that have been assigned in TS 32.634-~~in Release 5~~. These OIDs shall not be assigned to new objects.

Basic Object Name	Name and OID of the current TS Version	Name and OIDs of previous TS Versions
Managed Object Classes		
smlcFunction	Name: smlcFunction OID : ts32-634ObjectClass 1	--
gmlcFunction	Name: gmlcFunction OID : ts32-634ObjectClass 2	--
scfFunction	Name: scfFunction OID : ts32-634ObjectClass 3	--
srfFunction	Name: srfFunction OID : ts32-634ObjectClass 4	--
cbcFunction	Name: cbcFunction OID : ts32-634ObjectClass 5	--
cgfFunction	Name: cgfFunction OID : ts32-634ObjectClass 6	--
mgwFunction	--	Name: mgwFunction OID : ts32-634ObjectClass 7
imsMgwFunction	Name: imsMgwFunction OID : ts32-634ObjectClass 70503	--
gmscFunction	Name: gmscFunction OID : ts32-634ObjectClass 8	--
iwfFunction	Name: iwfFunction OID : ts32-634ObjectClass 9	--
mnpSrfFunction	Name: mnpSrfFunction OID : ts32-634ObjectClass 10	--
npdbFunction	Name: npdbFunction OID : ts32-634ObjectClass 11	--
rSgwFunction	Name: rSgwFunction OID : ts32-634ObjectClass 12	--
ssfFunction	Name: ssfFunction OID : ts32-634ObjectClass 13	--
bsFunction	Name: bsFunction OID : ts32-634ObjectClass 14	--
aucFunction	Name: aucFunction OID : ts32-634ObjectClass 15	--
bgFunction	Name: bgFunction OID : ts32-634ObjectClass 16	--
eirFunction	Name: eirFunction OID : ts32-634ObjectClass 17	--
ggsnFunction	Name: ggsnFunction OID : ts32-634ObjectClass 18	--
hlrFunction	Name: hlrFunction OID : ts32-634ObjectClass 19	--
mscFunction	Name: mscFunction OID : ts32-634ObjectClass 20	--
sgsnFunction	Name: sgsnFunction OID : ts32-634ObjectClass 21	--
smsGmscFunction	Name: smsGmscFunction OID : ts32-634ObjectClass 22	--
smslwmscFunction	Name: smslwmscFunction OID : ts32-634ObjectClass 23	--
vlrFunction	Name: vlrFunction OID : ts32-634ObjectClass 24	--
gbLink	Name: gbLink OID : ts32-634ObjectClass 25	--
aLink	Name: aLink OID : ts32-634ObjectClass 26	--
iucsLink	Name: iucsLink OID : ts32-634ObjectClass 27	--

iupsLink	Name: iupsLink OID : ts32-634ObjectClass 28	--
iubcLink	Name: iubcLink OID : ts32-634ObjectClass 29	--
csMgwFunction	Name: csMgwFunction OID : ts32-634ObjectClass 30	--
gmscServerFunction	Name: gmscServerFunction OID : ts32-634ObjectClass 31	--
scscfFunction	Name: ScscfFunction OID : ts32-634ObjectClass 32	--
pcscfFunction	Name: PcsfFunction OID : ts32-634ObjectClass 33	--
icscfFunction	Name: IcsfFunction OID : ts32-634ObjectClass 34	--
sifFunction	Name: SifFunction OID : ts32-634ObjectClass 35	--
bgcfFunction	Name: BgcfFunction OID : ts32-634ObjectClass 36	--
mrfcFunction	Name: MrfcFunction OID : ts32-634ObjectClass 37	--
asFunction	Name: AsFunction OID : ts32-634ObjectClass 38	--
mgcfFunction	Name: MgcfcFunction OID : ts32-634ObjectClass 39	--
mrfpFunction	Name: MrfpFunction OID : ts32-634ObjectClass 40	--
Packages		
smlcFunctionBasicPackage	Name: smlcFunctionBasicPackage OID : ts32-634Package 1	--
gmlcFunctionBasicPackage	Name: gmlcFunctionBasicPackage OID : ts32-634Package 2	--
scfFunctionBasicPackage	Name: scfFunctionBasicPackage OID : ts32-634Package 3	--
srfFunctionBasicPackage	Name: srfFunctionBasicPackage OID : ts32-634Package 4	--
cbcFunctionBasicPackage	Name: cbcFunctionBasicPackage OID : ts32-634Package 5	--
cgfFunctionBasicPackage	Name: cgfFunctionBasicPackage OID : ts32-634Package 6	--
mgwFunctionBasicPackage	--	Name: mgwFunctionBasicPackage OID : ts32-634Package 7
imsMgwFunctionBasicPackage	Name: imsMgwFunctionBasicPackage OID : ts32-634Package 70503	--
gmscFunctionBasicPackage	Name: gmscFunctionBasicPackage OID : ts32-634Package 8	--
iwfFunctionBasicPackage	Name: iwfFunctionBasicPackage OID : ts32-634Package 9	--
mnpSrfFunctionBasicPackage	Name: mnpSrfFunctionBasicPackage OID : ts32-634Package 10	--
npdbFunctionBasicPackage	Name: npdbFunctionBasicPackage OID : ts32-634Package 11	--
rSgwFunctionBasicPackage	Name: rSgwFunctionBasicPackage OID : ts32-634Package 12	--
ssfFunctionBasicPackage	Name: ssfFunctionBasicPackage OID : ts32-634Package 13	--
bsFunctionBasicPackage	Name: bsFunctionBasicPackage OID : ts32-634Package 14	--
aucFunctionBasicPackage	Name: aucFunctionBasicPackage OID : ts32-634Package 15	--
bgFunctionBasicPackage	Name: bgFunctionBasicPackage OID : ts32-634Package 16	--
eirFunctionBasicPackage	Name: eirFunctionBasicPackage OID : ts32-634Package 17	--
ggsnFunctionBasicPackage	Name: ggsnFunctionBasicPackage OID : ts32-634Package 18	--
hlrFunctionBasicPackage	Name: hlrFunctionBasicPackage OID : ts32-634Package 19	--

mscServerFunctionBasicPackage	Name: mscServerFunctionBasicPackage OID : ts32-634Package 20	--
mscServerFunctionAssociationPackage	Name: mscServerFunctionAssociationPackage OID : ts32-634Package 21	--
sgsnFunctionBasicPackage	Name: sgsnFunctionBasicPackage OID : ts32-634Package 22	--
sgsnFunctionAssociationPackage	Name: sgsnFunctionAssociationPackage OID : ts32-634Package 23	--
smsGmscFunctionBasicPackage	Name: smsGmscFunctionBasicPackage OID : ts32-634Package 24	--
smslwmScFunctionBasicPackage	Name: smslwmScFunctionBasicPackage OID : ts32-634Package 25	--
vlrFunctionBasicPackage	Name: vlrFunctionBasicPackage OID : ts32-634Package 26	--
gbLinkBasicPackage	Name: gbLinkBasicPackage OID : ts32-634Package 27	--
gbLinkAssociationPackage	Name: gbLinkAssociationPackage OID : ts32-634Package 28	--
aLinkBasicPackage	Name: aLinkBasicPackage OID : ts32-634Package 29	--
aLinkAssociationPackage	Name: aLinkAssociationPackage OID : ts32-634Package 30	--
iucsLinkBasicPackage	Name: iucsLinkBasicPackage OID : ts32-634Package 31	--
iucsLinkAssociationPackage	Name: iucsLinkAssociationPackage OID : ts32-634Package 32	--
iupsLinkBasicPackage	Name: iupsLinkBasicPackage OID : ts32-634Package 33	--
iupsLinkAssociationPackage	Name: iupsLinkAssociationPackage OID : ts32-634Package 34	--
iubcLinkBasicPackage	Name: iubcLinkBasicPackage OID : ts32-634Package 35	--
iubcLinkAssociationPackage	Name: iubcLinkAssociationPackage OID : ts32-634Package 36	--
csMgwFunctionBasicPackage	Name: csMgwFunctionBasicPackage OID : ts32-634Package 37	--
csMgwFunctionAssociationPackage	Name: csMgwFunctionAssociationPackage OID : ts32-634Package 38	--
gmscServerFunctionBasicPackage	Name: gmscServerFunctionBasicPackage OID : ts32-634Package 39	--
scscfFunctionBasicPackage	Name: scscfFunctionBasicPackage OID : ts32-634Package 40	--
pcscfFunctionBasicPackage	Name: pcscfFunctionBasicPackage OID : ts32-634Package 41	--
icscfFunctionBasicPackage	Name: icscfFunctionBasicPackage OID : ts32-634Package 42	--
slffFunctionBasicPackage	Name: slffFunctionBasicPackage OID : ts32-634Package 43	--
bgcfFunctionBasicPackage	Name: bgcfFunctionBasicPackage OID : ts32-634Package 44	--
mrfcFunctionBasicPackage	Name: mrfcFunctionBasicPackage OID : ts32-634Package 45	--
asFunctionBasicPackage	Name: asFunctionBasicPackage OID : ts32-634Package 46	--
mgcfFunctionBasicPackage	Name: mgcfFunctionBasicPackage OID : ts32-634Package 47	--
mrfpFunctionBasicPackage	Name: mrfpFunctionBasicPackage OID : ts32-634Package 48	--
Actions		
Notifications		
Attributes		
smlcFunctionId	Name: smlcFunctionId OID : ts32-634Attribute 1	--

gmlcFunctionId	Name: gmlcFunctionId OID : ts32-634Attribute 2	--
scfFunctionId	Name: scfFunctionId OID : -634Attribute 3	--
srfFunctionId	Name: srfFunctionId OID : ts32-634Attribute 4	--
cbcFunctionId	Name: cbcFunctionId OID : ts32-634Attribute 5	--
cgfFunctionId	Name: cgfFunctionId OID : ts32-634Attribute 6	--
mgwFunctionId	--	Name: mgwFunctionId OID : ts32-634Attribute 7
imsMgwFunctionId	Name: imsMgwFunctionId OID : ts32-634Attribute 70503	--
gmscFunctionId	Name: gmscFunctionId OID : ts32-634Attribute 8	--
iwfFunctionId	Name: iwfFunctionId OID : ts32-634Attribute 9	--
mnpSrfFunctionId	Name: mnpSrfFunctionId OID : ts32-634Attribute 10	--
npdbFunctionId	Name: npdbFunctionId OID : ts32-634Attribute 11	--
rSgwFunctionId	Name: rSgwFunctionId OID : ts32-634Attribute 12	--
ssfFunctionId	Name: ssfFunctionId OID : ts32-634Attribute 13	--
bsFunctionId	Name: bsFunctionId OID : ts32-634Attribute 14	--
aucFunctionId	Name: aucFunctionId OID : ts32-634Attribute 15	--
bgFunctionId	Name: bgFunctionId OID : ts32-634Attribute 16	--
eirFunctionId	Name: eirFunctionId OID : ts32-634Attribute 17	--
ggsnFunctionId	Name: ggsnFunctionId OID : ts32-634Attribute 18	--
hlrFunctionId	Name: hlrFunctionId OID : ts32-634Attribute 19	--
mscServerFunctionId	Name: mscServerFunctionId OID : ts32-634Attribute 20	--
vlrFunctionId	Name: vlrFunctionId OID : ts32-634Attribute 21	--
sgsnFunctionId	Name: sgsnFunctionId OID : ts32-634Attribute 22	--
smsGmscFunctionId	Name: smsGmscFunctionId OID : ts32-634Attribute 23	--
smsIwmscFunctionId	Name: smsIwmscFunctionId OID : ts32-634Attribute 24	--
gbLinkId	Name: gbLinkId OID : ts32-634Attribute 25	--
aLinkId	Name: aLinkId OID : ts32-634Attribute 26	--
iucsLinkId	Name: iucsLinkId OID : ts32-634Attribute 27	--
iupsLinkId	Name: iupsLinkId OID : ts32-634Attribute 28	--
iubcLinkId	Name: iubcLinkId OID : ts32-634Attribute 29	--
csMgwFunctionId	Name: csMgwFunctionId OID : ts32-634Attribute 30	--
gmscServerFunctionId	Name: gmscServerFunctionId OID : ts32-634Attribute 31	--
mccList	Name: mccList OID : ts32-634Attribute 32	--
mncList	Name: mncList OID : ts32-634Attribute 33	--

lacList	Name: lacList OID : ts32-634Attribute 34	--
sacList	Name: sacList OID : ts32-634Attribute 35	--
uraList	--	Name: uraList OID : ts32-634Attribute 36
gcaList	Name: gcaList OID : ts32-634Attribute 37	--
mscld	Name: mscld OID : ts32-634Attribute 38	--
mscServerFunction-GSMcell	Name: mscServerFunction-GSMcell OID : ts32-634Attribute 39	--
mscServerFunction-ExternalGSMcell	Name: mscServerFunction-ExternalGSMcell OID : ts32-634Attribute 40	--
mscServerFunction-CsMgwFunction	Name: mscServerFunction-CsMgwFunction OID : ts32-634Attribute 41	--
racList	Name: racList OID : ts32-634Attribute 42	--
sgsnld	Name: sgsnld OID : -634Attribute 43	--
sgsnFunction-GSMcell	Name: sgsnFunction-GSMcell OID : ts32-634Attribute 44	--
sgsnFunction-ExternalGSMcell	Name: sgsnFunction-ExternalGSMcell OID : ts32-634Attribute 45	--
connectedBss	Name: connectedBss OID : ts32-634Attribute 46	--
connectedRnc	Name: connectedRnc OID : ts32-634Attribute 47	--
csMgwFunction-MscServerFunction	Name: csMgwFunction-MscServerFunction OID : ts32-634Attribute 48	--
csMgwFunction-lucsLink	Name: csMgwFunction-lucsLink OID : ts32-634Attribute 49	--
csMgwFunction-Alink	Name: csMgwFunction-Alink OID : ts32-634Attribute 50	--
scscfFunctionId	Name: scscfFunctionId OID : ts32-634Attribute 51	--
pcscfFunctionId	Name: pcscfFunctionId OID : ts32-634Attribute 52	--
icscfFunctionId	Name: icscfFunctionId OID : ts32-634Attribute 53	--
slfFunctionId	Name: slfFunctionId OID : ts32-634Attribute 54	--
bgcfFunctionId	Name: bgcfFunctionId OID : ts32-634Attribute 55	--
mrfcFunctionId	Name: mrfcFunctionId OID : ts32-634Attribute 56	--
asFunctionId	Name: asFunctionId OID : ts32-634Attribute 57	--
mgcfFunctionId	Name: mgcfFunctionId OID : ts32-634Attribute 58	--
mrfpFunctionId	Name: mrfpFunctionId OID : ts32-634Attribute 59	--
Parameters		
Name Bindings		
smlcFunction-managedElement	Name: smlcFunction-managedElement OID : ts32-634NameBinding 1	--
gmlcFunction-managedElement	Name: gmlcFunction-managedElement OID : ts32-634NameBinding 2	--
scfFunction-managedElement	Name: scfFunction-managedElement OID : ts32-634NameBinding 3	--
srfFunction-managedElement	Name: srfFunction-managedElement OID : ts32-634NameBinding 4	--
cbcFunction-managedElement	Name: cbcFunction-managedElement OID : ts32-634NameBinding 5	--
cgfFunction-managedElement	Name: cgfFunction-managedElement OID : ts32-634NameBinding 6	--

mgwFunction-managedElement	--	Name: mgwFunction-managedElement OID : ts32-634NameBinding 7
imsMgwFunction-managedElement	Name: imsMgwFunction-managedElement OID : ts32-634NameBinding 70503	--
gmscFunction-managedElement	Name: gmscFunction-managedElement OID : ts32-634NameBinding 8	--
iwfFunction-managedElement	Name: iwfFunction-managedElement OID : ts32-634NameBinding 9	--
mnpSrfFunction-managedElement	Name: mnpSrfFunction-managedElement OID : ts32-634NameBinding 10	--
npdbFunction-managedElement	Name: npdbFunction-managedElement OID : ts32-634NameBinding 11	--
rSgwFunction-managedElement	Name: rSgwFunction-managedElement OID : ts32-634NameBinding 12	--
ssfFunction-managedElement	Name: ssfFunction-managedElement OID : ts32-634NameBinding 13	--
bsFunction-managedElement	Name: bsFunction-managedElement OID : ts32-634NameBinding 14	--
aucFunction-managedElement	Name: aucFunction-managedElement OID : ts32-634NameBinding 15	--
bgFunction-managedElement	Name: bgFunction-managedElement OID : ts32-634NameBinding 16	--
eirFunction-managedElement	Name: eirFunction-managedElement OID : ts32-634NameBinding 17	--
ggsnFunction-managedElement	Name: ggsnFunction-managedElement OID : ts32-634NameBinding 18	--
hlrFunction-managedElement	Name: hlrFunction-managedElement OID : ts32-634NameBinding 19	--
mscServerFunction-managedElement	Name: mscServerFunction-managedElement OID : ts32-634NameBinding 20	--
vlrFunction-managedElement	Name: vlrFunction-managedElement OID : ts32-634NameBinding 21	--
sgsnFunction-managedElement	Name: sgsnFunction-managedElement OID : ts32-634NameBinding 22	--
smsGmscFunction-managedElement	Name: smsGmscFunction-managedElement OID : ts32-634NameBinding 23	--
smsIwmscFunction-managedElement	Name: smsIwmscFunction-managedElement OID : ts32-634NameBinding 24	--
gbLink-managedElement	Name: gbLink-managedElement OID : ts32-634NameBinding 25	--
aLink-managedElement	Name: aLink-managedElement OID : ts32-634NameBinding 26	--
iucsLink-managedElement	Name: iucsLink-managedElement OID : ts32-634NameBinding 27	--
iupsLink-managedElement	Name: iupsLink-managedElement OID : ts32-634NameBinding 28	--
iubcLink-managedElement	Name: iubcLink-managedElement OID : ts32-634NameBinding 29	--
gmscServerFunction-managedElement	Name: gmscServerFunction-managedElement OID : ts32-634NameBinding 30	--
csMgwFunction-managedElement	Name: csMgwFunction-managedElement OID : ts32-634NameBinding 31	--
scscfFunction-managedElement	Name: scscfFunction-managedElement OID : ts32-634NameBinding 32	--
pcscfFunction-managedElement	Name: pcscfFunction-managedElement OID : ts32-634NameBinding 33	--
icscfFunction-managedElement	Name: icscfFunction-managedElement OID : ts32-634NameBinding 34	--
slfFunction-managedElement	Name: slfFunction-managedElement OID : ts32-634NameBinding 35	--
bgcfFunction-managedElement	Name: bgcfFunction-managedElement OID : ts32-634NameBinding 36	--
mrfcFunction-managedElement	Name: mrfcFunction-managedElement OID : ts32-634NameBinding 37	--

scscfFunction-managedElement	Name: scscfFunction-managedElement OID : ts32-634NameBinding_38	--
scscfFunction-managedElement	Name: scscfFunction-managedElement OID : ts32-634NameBinding_39	--
mrfpFunction-managedElement	Name: mrfpFunction-managedElement OID : ts32-634NameBinding_40	--

End of Change in Annex A
End of Document

Annex B (informative): Change history

Change history							
Date	TSG #	TSG Doc.	CR	Rev	Subject/Comment	Old	New
Jun 2001	S_12	SP-010283	--	--	Approved at TSG SA #12 and placed under Change Control	2.0.0	4.0.0
Sep 2001	S_13	SP-010478	001	--	Correction due to TS renumbering	4.0.0	4.1.0
Sep 2002	--	--	--	--	Cosmetics/Styles	4.1.0	4.1.1
Dec 2002	S_18	SP-020749	002	--	Alignment of the CMIP SS with the Rel-5 version of the IS in 32.632	4.1.1	5.0.0
Dec 2003	S_22	SP-030642	003	--	Add notifications to functional objects - Align with 32.632 (IS)	5.0.0	5.1.0
Mar 2004	S_23	SP-040130	004	--	Removal of the attribute uraList from the MOC MscServerFunction – Alignment with the IS 32.632	5.1.0	5.2.0
Sep 2004	S_25	SP-040582	005	--	Correction of modelling of Media GateWay (MGW)	5.2.0	5.3.0
Sep 2004	S_25	SP-040591	006	--	Removal of the 3GPP Release# cross references in the GDMO section	5.2.0	5.3.0
Sep 2004	S_25	SP-040541	--	--	Automatic upgrade to Rel- 6 (no CR) as per request in SP-040541 SA5_presentation_SA_25.ppt (slide 17)	5.3.0	6.0.0

3GPP TSG-SA5 (Telecom Management)
Meeting #41, Lisbon, PORTUGAL, 24 - 28 January 2005

Tdoc ~~⌘ S5-058033r1~~ 058163

CR-Form-v7.1

CHANGE REQUEST

⌘ **32.632 CR CRNum** ⌘ rev **-** ⌘ Current version: **6.1.0** ⌘

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

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

Title:	⌘ Addition of IMS Links to CN NRM Information Service		
Source:	⌘ SA5 (Islip@lucent.com)		
Work item code:	⌘ OAM-NIM	Date:	⌘ 28/01/2005
Category:	⌘ B	Release:	⌘ Rel-6
	Use <u>one</u> of the following categories: F (correction) A (corresponds to a correction in an earlier release) B (addition of feature), C (functional modification of feature) D (editorial modification) Detailed explanations of the above categories can be found in 3GPP TR 21.900 .		Use <u>one</u> of the following releases: Ph2 (GSM Phase 2) R96 (Release 1996) R97 (Release 1997) R98 (Release 1998) R99 (Release 1999) Rel-4 (Release 4) Rel-5 (Release 5) Rel-6 (Release 6) Rel-7 (Release 7)

Reason for change:	⌘ In ability to manage IMS links in Rel-6		
Summary of change:	⌘ Addition of link entities following the approach used in 3GPP2		
Consequences if not approved:	⌘		

Clauses affected:	⌘ 2 6.1 6.2.1 6.2.2 6.3 new clauses 6.3.42 to 6.3.56 added 6.5.1								
Other specs affected:	<table border="1" style="display: inline-table; border-collapse: collapse;"> <tr> <td style="text-align: center;">Y</td> <td style="text-align: center;">N</td> </tr> <tr> <td style="text-align: center;">X</td> <td style="text-align: center;">X</td> </tr> <tr> <td style="text-align: center;">X</td> <td style="text-align: center;">X</td> </tr> </table> Other core specifications Test specifications O&M Specifications	Y	N	X	X	X	X	⌘	TS 32.622 TS 32.622
Y	N								
X	X								
X	X								
Other comments:	⌘ The "link" IOC from TS 32.622, is inherited and specialised within this specification for the IMS application								

How 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.

KEEP the History box of the TS to be changed (see end of the present document), please

2 References

Change in Clause 2

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

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

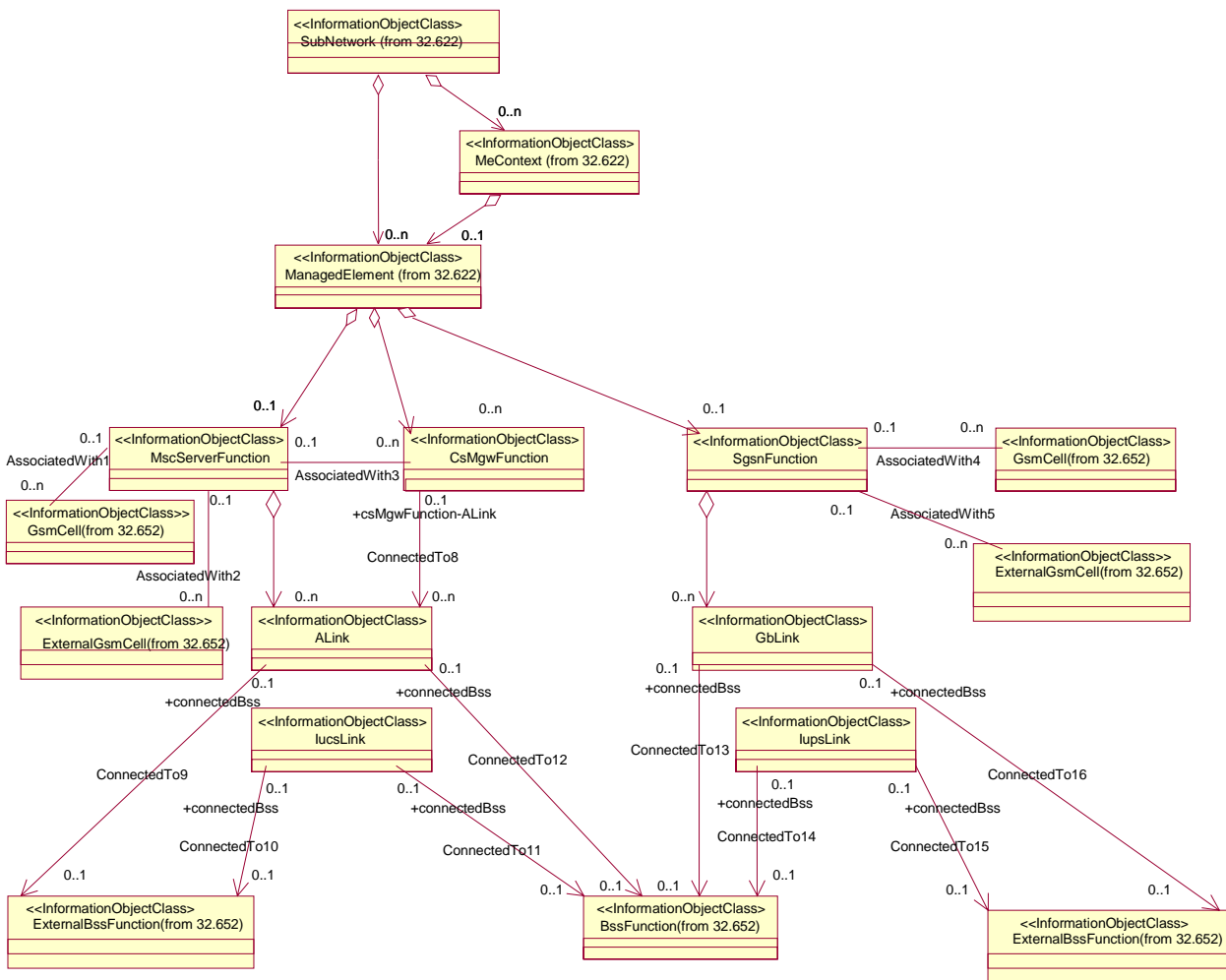
- [1] 3GPP TS 32.101: "Telecommunication management; Principles and high level requirements".
- [2] 3GPP TS 32.102: "Telecommunication management; Architecture".
- [3] 3GPP TS 32.302: "Telecommunication management; Configuration Management (CM); Notification Integration Reference Point; Information Service (IS)".
- [4] - [6] Void.
- [7] ITU-T Recommendation X.710 (1991): "Common management information service definition for CCITT applications".
- [8] - [10] Void.
- [11] 3GPP TS 32.111-2: "Telecommunication management; Fault Management; Part 2: Alarm Integration Reference Point: Information Service (IS)".
- [12] Void.
- [13] 3GPP TS 32.300: "Telecommunication management; Configuration Management (CM); Name convention for Managed Objects".
- [14] 3GPP TS 32.600: "Telecommunication management; Configuration Management (CM); Concept and high-level requirements".
- [15] 3GPP TS 23.002: "Network architecture".
- [16] 3GPP TS 32.622: "Telecommunication management; Configuration Management (CM); Generic network resources Integration Reference Point (IRP): Network Resource Model (NRM)".
- [17] 3GPP TS 32.602: "Telecommunication management; Configuration Management (CM); Basic Configuration Management Integration Reference Point (IRP): Information Service (IS)".
- [18] 3GPP TS 23.060: "General Packet Radio Service (GPRS) service description; Stage 2".
- [19] 3GPP TS 23.003: "Numbering, addressing and identification".
- [20] 3GPP TS 32.672: "Telecommunication Management; Configuration Management (CM); State Management Integration Reference Point (IRP): Information Service (IS)".
- [21] 3GPP TS 23.228: "IP Multimedia Subsystem (IMS) Stage 2".
- [22] [3GPP TS 32.642: "Telecommunication management; Configuration Management \(CM\); UTRAN network resources Integration Reference Point \(IRP\): Network Resource Model \(NRM\)".](#)

End of Change in Clause 2**6 IRP Information Model****6.1 Information entities imported and local labels****Change in Clause 6.1**

<u>Label reference</u>	<u>Local label</u>
3GPP TS 32.622 [16], information object class, Link	Link
3GPP TS 32.622 [16], information object class, ManagedElement	ManagedElement
3GPP TS 32.642 [22], information object class, RncFunction	RncFunction

~~None.~~

End of Change in Clause 6.1**[Change additional diagram in Clause 6.2.1.6, 6.2.1.6](#)**

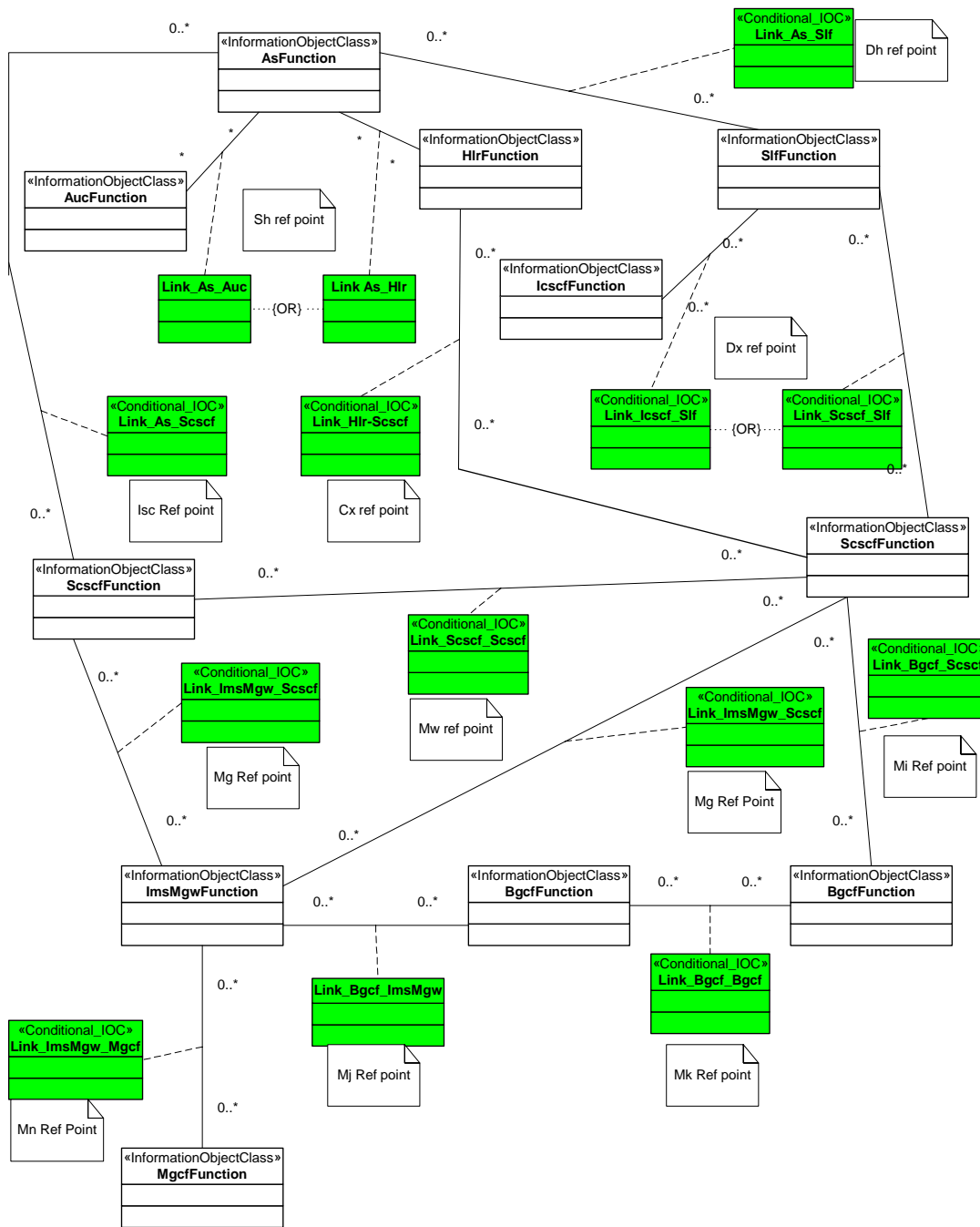


- NOTE 1: The association between MscServer and GsmCell, and SgsnFunction and GsmCell is optional. It may be valid if both the MscServer and GsmCell, or SgsnFunction and GsmCell are managed by the same management node.
- NOTE 2: The association between MscServer and CsMgwFunction is optional and is only mandatory when they belong to different ManagedElements.

Figure 6.2.1.5: CN GERAN NRM Containment/Naming and Association

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:

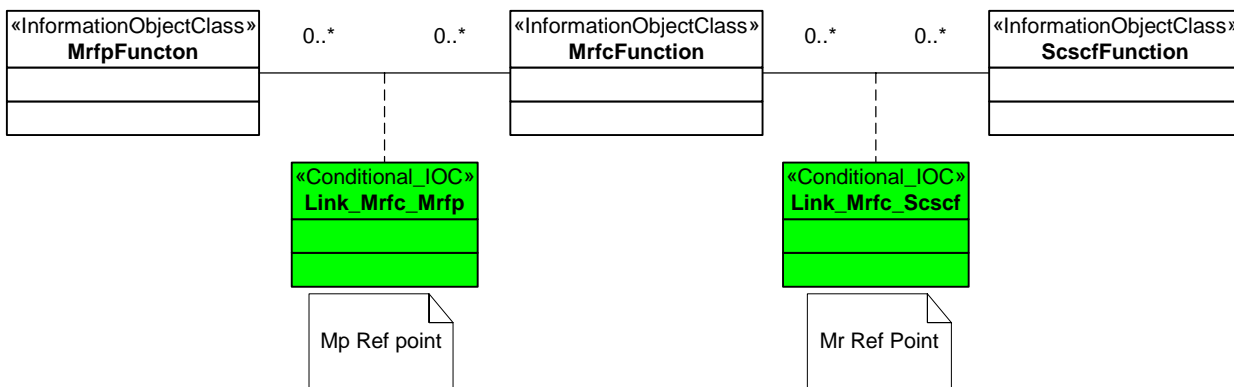
SubNetwork=Sweden,MeContext=MEC-Gbg-1,ManagedElement=MSC-Gbg-1,MscServerFunction=MSC-1.



Note 1: All Link_xxx classes are named according to TS 32.622 [16]

Note2: All link_xxx classes in Figure 6.2.1.6 are conditional, and instances are only created IF there is a communication association between the Network element instances.

Figure 6.2.1.6 CN IMS Link Associations 1



Note 1: [All Link_xxx classes are named according to TS 32.622 \[16\]](#)

Note2: [All link_xxx classes in Figure 6.2.1.6 are conditional, and instances are only created IF there is a communication association between between the Network elements modelled.](#)

Figure 6.2.1.6 CN IMS Link Associations –2

End Change new diagram 6.2.1.5, 6.2.1.6

6.2.2 Inheritance

This clause depicts the inheritance relationships that exist between IOCs.

The figures below show the inheritance hierarchy for the CN NRM.

Change new Figure 6.2.2.4

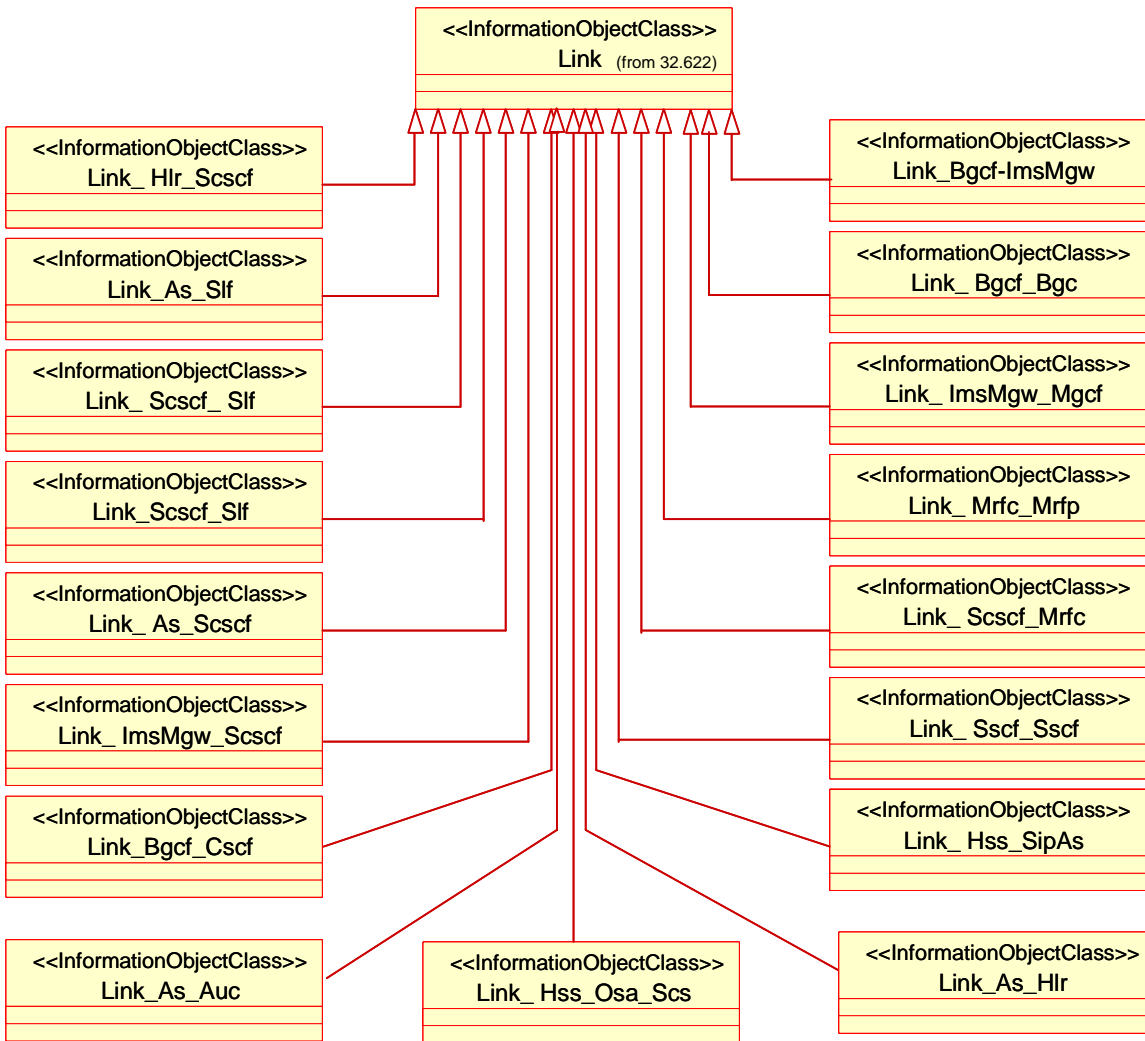


Figure 6.2.2.4: CN NRM Link Inheritance Hierarchy 4

NOTE 1: Link Managed Object Classes (and their subclasses) used to manage relationships between xxxFunction objects, are only to be created when there is an existing association between the network element instances.

End Change new figure 6.2.2.4

Change new Clause 6.3.42 to 6.3.56

6.3.42 Link As Auc

6.3.42.1 Definitions

This models the Sh reference point as defined in TS 23.002 [15] which may be between the HSS and a Sip application server or the HSS and an Osa_Scs. The NRMs do not model model the HSS , but by the encapsulated Hlr function and the AucFunction.

6.3.42.2 Attributes

Table 6.3.44.1: Attributes of Link As Auc

<u>Attribute Name</u>	<u>Visibility</u>	<u>Support Qualifier</u>	<u>Read Qualifier</u>	<u>Write Qualifier</u>
linkId (see note 1)	<u>+</u>	<u>M</u>	<u>M</u>	<u>-</u>
objectClass (see note 1)	<u>+</u>	<u>M</u>	<u>M</u>	<u>-</u>
objectInstance (see note 1)	<u>+</u>	<u>M</u>	<u>M</u>	<u>-</u>
userLabel (see note 1)	<u>+</u>	<u>M</u>	<u>M</u>	<u>M</u>
aEnd (see note 1)	<u>+</u>	<u>M</u>	<u>M</u>	<u>-</u>
zEnd (see note 1)	<u>+</u>	<u>M</u>	<u>M</u>	<u>-</u>
linkType (see note 1)	<u>+</u>	<u>O</u>	<u>M</u>	<u>-</u>
protocolName (see note 1)	<u>+</u>	<u>O</u>	<u>M</u>	<u>-</u>
protocolVersion (see note 1)	<u>+</u>	<u>O</u>	<u>M</u>	<u>-</u>

Note1:- this attribute is inherited from [Link](#)

6.3.42.3 Notifications

Notifications are inherited from [Link](#)

6.3.43 Link As Hlr

6.3.43.1 Definitions

This models the Sh reference point as defined in TS 23.002 [15] which may be between the HSS and a Sip application server or the HSS and an Osa_Scs. The NRMs do not model the HSS, but by the encapsulated Hlr function and the AucFunction.

6.3.43.2 Attributes

Table 6.3.43.1: Attributes of Link As Hlr

<u>Attribute Name</u>	<u>Visibility</u>	<u>Support Qualifier</u>	<u>Read Qualifier</u>	<u>Write Qualifier</u>
linkId (see note 1)	<u>+</u>	<u>M</u>	<u>M</u>	<u>-</u>
objectClass (see note 1)	<u>+</u>	<u>M</u>	<u>M</u>	<u>-</u>
objectInstance (see note 1)	<u>+</u>	<u>M</u>	<u>M</u>	<u>-</u>
userLabel (see note 1)	<u>+</u>	<u>M</u>	<u>M</u>	<u>M</u>
aEnd (see note 1)	<u>+</u>	<u>M</u>	<u>M</u>	<u>-</u>
zEnd (see note 1)	<u>+</u>	<u>M</u>	<u>M</u>	<u>-</u>
linkType (see note 1)	<u>+</u>	<u>O</u>	<u>M</u>	<u>-</u>
protocolName (see note 1)	<u>+</u>	<u>O</u>	<u>M</u>	<u>-</u>
protocolVersion (see note 1)	<u>+</u>	<u>O</u>	<u>M</u>	<u>-</u>

Note1:- this attribute is inherited from [Link](#)

6.3.43.3 Notifications

Notifications are inherited from [Link](#)

6.3.44 Link As Scscf

6.3.44.1 Definitions

This IOC models the Isc reference point as defined in TS 23.002 [15]

6.3.44.2 Attributes

Table 6.3.44.1: Attributes of Link As Scscf

<u>Attribute Name</u>	<u>Visibility</u>	<u>Support Qualifier</u>	<u>Read Qualifier</u>	<u>Write Qualifier</u>
linkId (see note 1)	<u>+</u>	<u>M</u>	<u>M</u>	<u>-</u>
objectClass (see note 1)	<u>+</u>	<u>M</u>	<u>M</u>	<u>-</u>
objectInstance (see note 1)	<u>+</u>	<u>M</u>	<u>M</u>	<u>-</u>
userLabel (see note 1)	<u>+</u>	<u>M</u>	<u>M</u>	<u>M</u>
aEnd (see note 1)	<u>+</u>	<u>M</u>	<u>M</u>	<u>-</u>
zEnd (see note 1)	<u>+</u>	<u>M</u>	<u>M</u>	<u>-</u>
linkType (see note 1)	<u>+</u>	<u>O</u>	<u>M</u>	<u>-</u>
protocolName (see note 1)	<u>+</u>	<u>O</u>	<u>M</u>	<u>-</u>
protocolVersion (see note 1)	<u>+</u>	<u>O</u>	<u>M</u>	<u>-</u>

Note1:- this attribute is inherited from **Link**

6.3.44.3 Notifications

[Notifications are inherited from Link](#)

6.3.45 Link As slf

6.3.45.1 Definitions

[This models the Dh reference point as defined in TS 23.002 \[15\]](#)

6.3.45.2 Attributes

Table 6.3.45.1: Attributes of Link As slf

<u>Attribute Name</u>	<u>Visibility</u>	<u>Support Qualifier</u>	<u>Read Qualifier</u>	<u>Write Qualifier</u>
linkId (see note 1)	<u>+</u>	<u>M</u>	<u>M</u>	<u>-</u>
objectClass (see note 1)	<u>+</u>	<u>M</u>	<u>M</u>	<u>-</u>
objectInstance (see note 1)	<u>+</u>	<u>M</u>	<u>M</u>	<u>-</u>
userLabel (see note 1)	<u>+</u>	<u>M</u>	<u>M</u>	<u>M</u>
aEnd (see note 1)	<u>+</u>	<u>M</u>	<u>M</u>	<u>-</u>
zEnd (see note 1)	<u>+</u>	<u>M</u>	<u>M</u>	<u>-</u>
linkType (see note 1)	<u>+</u>	<u>O</u>	<u>M</u>	<u>-</u>
protocolName (see note 1)	<u>+</u>	<u>O</u>	<u>M</u>	<u>-</u>
protocolVersion (see note 1)	<u>+</u>	<u>O</u>	<u>M</u>	<u>-</u>

Note1:- this attribute is inherited from **Link**

6.3.45.3 Notifications

[Notifications are inherited from Link](#)

6.3.46 Link Bgcf Bgcf

6.3.46.1 Definitions

[This models the Mk reference point as defined in TS 23.002 \[15\]](#)

6.3.46.2 Attributes

Table 6.3.46.1: Attributes of Bgcf_Bgcf

Attribute Name	Visibility	Support Qualifier	Read Qualifier	Write Qualifier
linkId (see note 1)	+	M	M	-
objectClass (see note 1)	+	M	M	-
objectInstance (see note 1)	+	M	M	-
userLabel (see note 1)	+	M	M	M
aEnd (see note 1)	+	M	M	-
zEnd (see note 1)	+	M	M	-
linkType (see note 1)	+	O	M	-
protocolName (see note 1)	+	O	M	-
protocolVersion (see note 1)	+	O	M	-

Note1:- this attribute is inherited from [Link](#)

6.3.46.3 Notifications

Notifications are inherited from [Link](#)

6.3.47 Link Bgcf-ImsMgw

6.3.47.1 Definitions

This models the Mj reference point as defined in TS 23.002 [15]

6.3.47.2 Attributes

Table 6.3.47.1: Attributes of Link_Bgcf-ImsMgw

Attribute Name	Visibility	Support Qualifier	Read Qualifier	Write Qualifier
linkId (see note 1)	+	M	M	-
objectClass (see note 1)	+	M	M	-
objectInstance (see note 1)	+	M	M	-
userLabel (see note 1)	+	M	M	M
aEnd (see note 1)	+	M	M	-
zEnd (see note 1)	+	M	M	-
linkType (see note 1)	+	O	M	-
protocolName (see note 1)	+	O	M	-
protocolVersion (see note 1)	+	O	M	-

Note1:- this attribute is inherited from [Link](#)

6.3.47.3 Notifications

Notifications are inherited from [Link](#)

6.3.48 Link Bgcf Scscf

6.3.48.1 Definitions

This models the Mi reference point as defined in TS 23.002 [15]

6.3.48.2 Attributes

Table 6.3.48.1: Attributes of Link Bgcf Scscf

<u>Attribute Name</u>	<u>Visibility</u>	<u>Support Qualifier</u>	<u>Read Qualifier</u>	<u>Write Qualifier</u>
linkId (see note 1)	<u>+</u>	<u>M</u>	<u>M</u>	<u>-</u>
objectClass (see note 1)	<u>+</u>	<u>M</u>	<u>M</u>	<u>-</u>
objectInstance (see note 1)	<u>+</u>	<u>M</u>	<u>M</u>	<u>-</u>
userLabel (see note 1)	<u>+</u>	<u>M</u>	<u>M</u>	<u>M</u>
aEnd (see note 1)	<u>+</u>	<u>M</u>	<u>M</u>	<u>-</u>
zEnd (see note 1)	<u>+</u>	<u>M</u>	<u>M</u>	<u>-</u>
linkType (see note 1)	<u>+</u>	<u>O</u>	<u>M</u>	<u>-</u>
protocolName (see note 1)	<u>+</u>	<u>O</u>	<u>M</u>	<u>-</u>
protocolVersion (see note 1)	<u>+</u>	<u>O</u>	<u>M</u>	<u>-</u>

Note1:- this attribute is inherited from **Link**

6.3.48.3 Notifications

[Notifications are inherited from Link](#)

6.3.49 Link Hlr Scscf

6.3.49.1 Definitions

[This IOC models the Cx reference point as defined in TS 23.002 \[15\]](#)

6.3.49.2 Attributes

Table 6.3.49.1: Attributes of Link Hlr Scscf

<u>Attribute Name</u>	<u>Visibility</u>	<u>Support Qualifier</u>	<u>Read Qualifier</u>	<u>Write Qualifier</u>
linkId (see note 1)	<u>+</u>	<u>M</u>	<u>M</u>	<u>-</u>
objectClass (see note 1)	<u>+</u>	<u>M</u>	<u>M</u>	<u>-</u>
objectInstance (see note 1)	<u>+</u>	<u>M</u>	<u>M</u>	<u>-</u>
userLabel (see note 1)	<u>+</u>	<u>M</u>	<u>M</u>	<u>M</u>
aEnd (see note 1)	<u>+</u>	<u>M</u>	<u>M</u>	<u>-</u>
zEnd (see note 1)	<u>+</u>	<u>M</u>	<u>M</u>	<u>-</u>
linkType (see note 1)	<u>+</u>	<u>O</u>	<u>M</u>	<u>-</u>
protocolName (see note 1)	<u>+</u>	<u>O</u>	<u>M</u>	<u>-</u>
protocolVersion (see note 1)	<u>+</u>	<u>O</u>	<u>M</u>	<u>-</u>

Note1:- this attribute is inherited from **Link**

6.3.49.3 Notifications

[Notifications are inherited from Link](#)

6.3.50 Link Icscf Slf

6.3.50.1 Definitions

[This models the Dx reference point as defined in TS 23.002 \[15\]](#)

6.3.50.2 Attributes

Table 6.3.50.1: Attributes of Link Icscf Slf

<u>Attribute Name</u>	<u>Visibility</u>	<u>Support Qualifier</u>	<u>Read Qualifier</u>	<u>Write Qualifier</u>
linkId (see note 1)	<u>+</u>	<u>M</u>	<u>M</u>	<u>-</u>
objectClass (see note 1)	<u>+</u>	<u>M</u>	<u>M</u>	<u>-</u>
objectInstance (see note 1)	<u>+</u>	<u>M</u>	<u>M</u>	<u>-</u>
userLabel (see note 1)	<u>+</u>	<u>M</u>	<u>M</u>	<u>M</u>
aEnd (see note 1)	<u>+</u>	<u>M</u>	<u>M</u>	<u>-</u>
zEnd (see note 1)	<u>+</u>	<u>M</u>	<u>M</u>	<u>-</u>
linkType (see note 1)	<u>+</u>	<u>O</u>	<u>M</u>	<u>-</u>
protocolName (see note 1)	<u>+</u>	<u>O</u>	<u>M</u>	<u>-</u>
protocolVersion (see note 1)	<u>+</u>	<u>O</u>	<u>M</u>	<u>-</u>

Note1:- this attribute is inherited from **Link**

6.3.50.3 Notifications

[Notifications are inherited from Link](#)

6.3.51 Link ImsMgw MgcF

6.3.51.1 Definitions

[This models the Mn reference point as defined in TS 23.002 \[15\]](#)

6.3.51.2 Attributes

Table 6.3.51.1: Attributes of Link ImsMgw MgcF

<u>Attribute Name</u>	<u>Visibility</u>	<u>Support Qualifier</u>	<u>Read Qualifier</u>	<u>Write Qualifier</u>
linkId (see note 1)	<u>+</u>	<u>M</u>	<u>M</u>	<u>-</u>
objectClass (see note 1)	<u>+</u>	<u>M</u>	<u>M</u>	<u>-</u>
objectInstance (see note 1)	<u>+</u>	<u>M</u>	<u>M</u>	<u>-</u>
userLabel (see note 1)	<u>+</u>	<u>M</u>	<u>M</u>	<u>M</u>
aEnd (see note 1)	<u>+</u>	<u>M</u>	<u>M</u>	<u>-</u>
zEnd (see note 1)	<u>+</u>	<u>M</u>	<u>M</u>	<u>-</u>
linkType (see note 1)	<u>+</u>	<u>O</u>	<u>M</u>	<u>-</u>
protocolName (see note 1)	<u>+</u>	<u>O</u>	<u>M</u>	<u>-</u>
protocolVersion (see note 1)	<u>+</u>	<u>O</u>	<u>M</u>	<u>-</u>

Note1:- this attribute is inherited from **Link**

6.3.51.3 Notifications

[Notifications are inherited from Link](#)

6.3.52 Link ImsMgw Scscf

6.3.52.1 Definitions

[This IOC models the Cx reference point as defined in TS 23.002 \[15\]](#)

6.3.52.2 Attributes Link ImsMgw Scscf

Attribute Name	Visibility	Support Qualifier	Read Qualifier	Write Qualifier
linkId (see note 1)	+	<u>M</u>	<u>M</u>	-
objectClass (see note 1)	+	<u>M</u>	<u>M</u>	-
objectInstance (see note 1)	+	<u>M</u>	<u>M</u>	-
userLabel (see note 1)	+	<u>M</u>	<u>M</u>	<u>M</u>
aEnd (see note 1)	+	<u>M</u>	<u>M</u>	-
zEnd (see note 1)	+	<u>M</u>	<u>M</u>	-
linkType (see note 1)	+	<u>O</u>	<u>M</u>	-
protocolName (see note 1)	+	<u>O</u>	<u>M</u>	-
protocolVersion (see note 1)	+	<u>O</u>	<u>M</u>	-

Note1:- this attribute is inherited from [Link](#)

6.3.51.3 Notifications

[Notifications](#) are inherited from [Link](#)

6.3.53 Link Mrfc Mrfp

6.3.53.1 Definitions

This IOC models the Mp reference point as defined in TS 23.002 [15]

6.3.53.2 Attributes

Table 6.3.53.1: Attributes of [Link Mrfc Mrfp](#)

Attribute Name	Visibility	Support Qualifier	Read Qualifier	Write Qualifier
linkId (see note 1)	+	<u>M</u>	<u>M</u>	-
objectClass (see note 1)	+	<u>M</u>	<u>M</u>	-
objectInstance (see note 1)	+	<u>M</u>	<u>M</u>	-
userLabel (see note 1)	+	<u>M</u>	<u>M</u>	<u>M</u>
aEnd (see note 1)	+	<u>M</u>	<u>M</u>	-
zEnd (see note 1)	+	<u>M</u>	<u>M</u>	-
linkType (see note 1)	+	<u>O</u>	<u>M</u>	-
protocolName (see note 1)	+	<u>O</u>	<u>M</u>	-
protocolVersion (see note 1)	+	<u>O</u>	<u>M</u>	-

Note1:- this attribute is inherited from [Link](#)

6.3.53.3 Notifications

[Notifications](#) are inherited from [Link](#)

6.3.54 Link Mrfc Scscf

6.3.54.1 Definitions

This IOC models the Mr reference point as defined in TS 23.002 [15]

6.3.54.2 Attributes

Table 6.3.54.1: Attributes of Link Mrfc Scscf

Attribute Name	Visibility	Support Qualifier	Read Qualifier	Write Qualifier
linkId (see note 1)	+	M	M	-
objectClass (see note 1)	+	M	M	-
objectInstance (see note 1)	+	M	M	-
userLabel (see note 1)	+	M	M	M
aEnd (see note 1)	+	M	M	-
zEnd (see note 1)	+	M	M	-
linkType (see note 1)	+	O	M	-
protocolName (see note 1)	+	O	M	-
protocolVersion (see note 1)	+	O	M	-

Note1:- this attribute is inherited from [Link](#)

6.3.54.3 Notifications

[Notifications](#) are inherited from [Link](#)

6.3.55 Link Scscf Scscf

6.3.55.1 Definitions

[This](#) models the Dh reference point as defined in TS 23.002 [15]

6.3.55.2 Attributes

Table 6.3.55.1: Attributes of Link Scscf Scscf

Attribute Name	Visibility	Support Qualifier	Read Qualifier	Write Qualifier
linkId (see note 1)	+	M	M	-
objectClass (see note 1)	+	M	M	-
objectInstance (see note 1)	+	M	M	-
userLabel (see note 1)	+	M	M	M
aEnd (see note 1)	+	M	M	-
zEnd (see note 1)	+	M	M	-
linkType (see note 1)	+	O	M	-
protocolName (see note 1)	+	O	M	-
protocolVersion (see note 1)	+	O	M	-

Note1:- this attribute is inherited from [Link](#)

6.3.55.3 Notifications

[Notifications](#) are inherited from [Link](#)

6.3.56 Link Scscf Slf

6.3.56.1 Definitions

[This](#) IOC models the Dx reference point as defined in TS 23.002 [15]

6.3.56.2 Attributes

Table 6.3.56.1: Attributes of Link_Scscf_Slf

<u>Attribute Name</u>	<u>Visibility</u>	<u>Support Qualifier</u>	<u>Read Qualifier</u>	<u>Write Qualifier</u>
linkId (see note 1)	<u>+</u>	<u>M</u>	<u>M</u>	<u>-</u>
objectClass (see note 1)	<u>+</u>	<u>M</u>	<u>M</u>	<u>-</u>
objectInstance (see note 1)	<u>+</u>	<u>M</u>	<u>M</u>	<u>-</u>
userLabel (see note 1)	<u>+</u>	<u>M</u>	<u>M</u>	<u>M</u>
aEnd (see note 1)	<u>+</u>	<u>M</u>	<u>M</u>	<u>-</u>
zEnd (see note 1)	<u>+</u>	<u>M</u>	<u>M</u>	<u>-</u>
linkType (see note 1)	<u>+</u>	<u>O</u>	<u>M</u>	<u>-</u>
protocolName (see note 1)	<u>+</u>	<u>O</u>	<u>M</u>	<u>-</u>
protocolVersion (see note 1)	<u>+</u>	<u>O</u>	<u>M</u>	<u>-</u>

Note1:- this attribute is inherited from Link

6.3.56.3 Notifications

Notifications are inherited from Link

End change new Clauses 6.3.42 to 6.3.56

Change Clause 6.5.1

Table 6.5.1: Attributes

Attribute Name	Definition	Legal Values
aEnd	An attribute inherited from generic NRM [16] link	
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.	
asFunctionId	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.	
bgcfFunctionId	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 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.	
cbcFunctionId	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.	
cgfFunctionId	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.	
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.	
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.	
gcaList	List of Group Call Area (Ref. 3GPP TS 23.003 [19]).	
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.	
gmlcFunctionId	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 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 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.	
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.	
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.	
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.	
icscfFunctionId	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.	
iubLinkId	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.	
iucslinkId	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.	
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.	
lacList	List of Location Area Codes covered by MSC (Ref. 3GPP TS 23.003 [19]).	
linkId	An attribute inherited from genericNRM [16] Link, 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.	
linkType	An attribute inherited from generic NRM link	
mccList	List of Mobile Country Codes, MCC (part of the PLMN Id, Ref. 3GPP TS 23.003 [19]).	
mgcfFunctionId	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.	
mncList	List of Mobile Network Codes, MNC (part of the PLMN Id, Ref. 3GPP TS 23.003 [19]).	
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.	
mrfcFunctionId	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.	
mrfpFunctionId	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.	
mscId	Unique MSC ID (Ref. 3GPP TS 23.002 [15]).	
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.	

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.	
ObjectClass	An attribute inherited from generic NRM [16] link	
ObjectInstance	An attribute inherited from generic NRM [16] link	
pcscfFunctionId	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	
proceduralStatus	<p>It indicates the procedural status of the object instance. This attribute provides a subset of capabilities of procedural status defined in [20]. There are two cases resulting in a status change to be reported:</p> <ul style="list-style-type: none"> Case 1: A notification may be generated to indicate that restart procedure is about to begin or has just begun but has not finished. - the value for this attribute indicates original state == "notInitialized" and new state == "initializing". Case 2: A notification shall be generated to indicate that restart procedure has completed successfully - the value for this attribute indicates original state == "initializing" to new state == "" (empty set). 	Subset of definitions from [20]: "notInitialized", "initializing", "" (empty set)
protocolName	An attribute inherited from generic NRM [16] link	
protocolVersion	An attribute inherited from generic NRM [16] link	
sacList	List of Service Area Codes covered by MSC (Ref. 3GPP TS 23.003 [19]).	
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.	
scscfFunctionId	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	
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 [15]).	
sgwFunctionId	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.	
slfFunctionId	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	
smlcFunctionId	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.	
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.	
smsIwmscFunctionId	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.	
srfFunctionId	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.	
ssfFunctionId	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.	

userLabel	A user-friendly (and user assigned) name of the associated object. Inherited from ManagedFunction.	
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.	
zEnd	An attribute inherited from generic NRM [16] link	

End Change Clause 6.5.1
--

Annex A (informative): Change history

Change history							
Date	TSG #	TSG Doc.	CR	Rev	Subject/Comment	Old	New
Jun 2001	S_12	SP-010283	--	--	Approved at TSG SA #12 and placed under Change Control	2.0.0	4.0.0
Dec 2001	S_14	SP-010649	001	--	Removal of MOC FnrFunction from the diagrams	4.0.0	4.1.0
Jun 2002	S_16	SP-020302	002	--	Align with Rel-4 Network Architecture (23.002) by changing Roaming Signalling Gateway (R-SGW) to Signalling Gateway (SGW)	4.1.0	4.2.0
Sep 2002	S_17	SP-020489	003	--	Upgrade to Rel-5 the Network Resource Model for Core Network Management (add Managed Object Classes (MOCs)) [NOTE: Align with Rel-5 Network Architecture]	4.2.0	5.0.0
Dec 2002	S_18	SP-020747	004	--	Removal of faulty attribute uraList	5.0.0	5.1.0
Mar 2003	S_19	SP-030142	006	--	CN Network Resource Model changed to the New Methodology - alignment with 32.102 (Telecommunication management; Architecture)	5.1.0	5.2.0
Jun 2003	S_20	SP-030281	007	--	CN Network Resource Model changed to the New Methodology - alignment with 32.102	5.2.0	5.3.0
Sep 2003	S_21	SP-030419	009	--	Correction of Information Object Classes (IOCs) Notifications - Alignment with 32.102	5.3.0	5.4.0
Dec 2003	S_22	SP-030643	010	--	Remove redundant VsDataContainer Containment UML - Now Covered by 32.622	5.4.0	5.5.0
Sep 2004	S_25	SP-040582	011	--	Correction of modelling of Media GateWay (MGW) and of Class diagrams with respect to MSC and MGW functions	5.5.0	5.6.0
Sep 2004	S_25	SP-040541	--	--	Automatic upgrade to Rel- 6 (no CR) as per request in SP-040541 SA5_presentation_SA_25.ppt (slide 17)	5.6.0	6.0.0
Dec 2004	S_26	SP-040809	012	--	Add new IMS Entities to Rel-6 Core Network NRM	6.0.0	6.1.0
Dec 2004	S_26	SP-040809	013	--	Add restart notification to GSN objects using "proceduralStatus" attribute and notifyStateChange notification	6.0.0	6.1.0

CHANGE REQUEST

⌘ **32.633 CR 013** ⌘ rev **-** ⌘ Current version: **6.1.0** ⌘

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

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

Title:	⌘ Add IMS links to CN NRM CORBA SS		
Source:	⌘ SA5 (Islip@lucent.com)		
Work item code:	⌘ OAM-NIM	Date:	⌘ 28/01/2005
Category:	⌘ B	Release:	⌘ Rel-6
	Use <u>one</u> of the following categories: F (correction) A (corresponds to a correction in an earlier release) B (addition of feature), C (functional modification of feature) D (editorial modification) Detailed explanations of the above categories can be found in 3GPP TR 21.900 .		Use <u>one</u> of the following releases: Ph2 (GSM Phase 2) R96 (Release 1996) R97 (Release 1997) R98 (Release 1998) R99 (Release 1999) Rel-4 (Release 4) Rel-5 (Release 5) Rel-6 (Release 6) Rel-7 (Release 7)

Reason for change:	⌘ IMS Links Missing from the CN NRM
Summary of change:	⌘ Addition of link IMS MOs which inherit from the generic NRM link
Consequences if not approved:	⌘ IMS links cannot be referenced across the Itf-N for management operations.

Clauses affected:	⌘ new clauses:- 5.2.41 to 5.2.54 Annex A Amendments to add MOCs for the IMS links.					
Other specs affected:	<table border="1" style="display: inline-table; border-collapse: collapse;"> <tr> <td style="width: 20px; text-align: center;">Y</td> <td style="width: 20px; text-align: center;">N</td> </tr> <tr> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> </tr> </table> Other core specifications	Y	N	<input type="checkbox"/>	<input checked="" type="checkbox"/>	⌘
Y	N					
<input type="checkbox"/>	<input checked="" type="checkbox"/>					
	<table border="1" style="display: inline-table; border-collapse: collapse;"> <tr> <td style="width: 20px; text-align: center;">Y</td> <td style="width: 20px; text-align: center;">N</td> </tr> <tr> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> </tr> </table> Test specifications	Y	N	<input type="checkbox"/>	<input checked="" type="checkbox"/>	⌘
Y	N					
<input type="checkbox"/>	<input checked="" type="checkbox"/>					
	<table border="1" style="display: inline-table; border-collapse: collapse;"> <tr> <td style="width: 20px; text-align: center;">Y</td> <td style="width: 20px; text-align: center;">N</td> </tr> <tr> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> </tr> </table> O&M Specifications	Y	N	<input type="checkbox"/>	<input checked="" type="checkbox"/>	⌘
Y	N					
<input type="checkbox"/>	<input checked="" type="checkbox"/>					
Other comments:	⌘ This requires a related change to Generic NRM (TS 32.623) which adds the Link MOC, which is inherited into all the additional links specified in this CR.					

Changes in Clause 5.2

5.2.41 MOC Link As Auc

Mapping from NRM IOC Link As Auc attributes to SS equivalent MOC Link As Auc

<u>NRM Attributes of MOC Link As Auc in TS 32.632 [3]</u>	<u>SS Attributes</u>	<u>SS Type</u>	<u>Qualifier</u>
linkId inherited from Link	linkId	string	Read-Only, M
objectClass inherited from Link	CLASS	string	Read-Only, M
objectInstance inherited from Link	No direct mapping.	string	Read-Only, M
userLabel inherited from Link	userLabel	string	Read-Only, M
aEnd inherited from Link	aEnd	GenericNetworkResourcesIRPSystem::AttributeTypes::MOReference	Read-Only, M
zEnd inherited from Link	zEnd	GenericNetworkResourcesIRPSystem::AttributeTypes::MOReference	Read-Only, M
linkType inherited from Link	linkType	LinkTypeType	Read-Only, O
protocolName inherited from Link	protocolName	string	Read-Only, O
protocolVersion inherited from Link	protocolVersion	string	Read-Only, O

5.2.42 MOC Link As Hlr

Mapping from NRM IOC Link As Hlr attributes to SS equivalent MOC Link As Hlr

<u>NRM Attributes of MOC Link As Hlr in TS 32.632 [3]</u>	<u>SS Attributes</u>	<u>SS Type</u>	<u>Qualifier</u>
linkId inherited from Link	linkId	string	Read-Only, M
objectClass inherited from Link	CLASS	string	Read-Only, M
objectInstance inherited from Link	No direct mapping.	string	Read-Only, M
userLabel inherited from Link	userLabel	string	Read-Only, M
aEnd inherited from Link	aEnd	GenericNetworkResourcesIRPSystem::AttributeTypes::MOReference	Read-Only, M
zEnd inherited from Link	zEnd	GenericNetworkResourcesIRPSystem::AttributeTypes::MOReference	Read-Only, M
linkType inherited from Link	linkType	LinkTypeType	Read-Only, O
protocolName inherited from Link	protocolName	string	Read-Only, O
protocolVersion inherited from Link	protocolVersion	string	Read-Only, O

5.2.43 MOC Link_As_Scscf

Mapping from NRM IOC Link_As_Scscf attributes to SS equivalent MOC Link_As_Scscf

<u>NRM Attributes of MOC Link_As_Scscf in TS 32.632 [3]</u>	<u>SS Attributes</u>	<u>SS Type</u>	<u>Qualifier</u>
linkId inherited from Link	linkId	string	Read-Only, M
objectClass inherited from Link	CLASS	string	Read-Only, M
objectInstance inherited from Link	No direct mapping.	string	Read-Only, M
userLabel inherited from Link	userLabel	string	Read-Only, M
aEnd inherited from Link	aEnd	GenericNetworkResourcesIRPSystem::AttributeTypes::MOReference	Read-Only, M
zEnd inherited from Link	zEnd	GenericNetworkResourcesIRPSystem::AttributeTypes::MOReference	Read-Only, M
linkType inherited from Link	linkTypeType	string	Read-Only, O
protocolName inherited from Link	protocolName	string	Read-Only, O
protocolVersion inherited from Link	protocolVersion	string	Read-Only, O

5.2.44 MOC Link_As_Slf

Mapping from NRM IOC Link_As_Slf attributes to SS equivalent MOC Link_As_Slf

<u>NRM Attributes of MOC Link_As_Scscf in TS 32.632 [3]</u>	<u>SS Attributes</u>	<u>SS Type</u>	<u>Qualifier</u>
linkId inherited from Link	linkId	string	Read-Only, M
objectClass inherited from Link	CLASS	string	Read-Only, M
objectInstance inherited from Link	No direct mapping.	string	Read-Only, M
userLabel inherited from Link	userLabel	string	Read-Only, M
aEnd inherited from Link	aEnd	GenericNetworkResourcesIRPSystem::AttributeTypes::MOReference	Read-Only, M
zEnd inherited from Link	zEnd	GenericNetworkResourcesIRPSystem::AttributeTypes::MOReference	Read-Only, M
linkType inherited from Link	linkType	LinkTypeType	Read-Only, O
protocolName inherited from Link	protocolName	string	Read-Only, O
protocolVersion inherited from Link	protocolVersion	string	Read-Only, O

5.2.45 MOC Link_Bgcf_Bgcf

Mapping from NRM IOC Link_Bgcf_Bgcf attributes to SS equivalent MOC Link_Bgcf_Bgcf

<u>NRM Attributes of MOC Link_Bgcf_Bgcf in TS 32.632 [3]</u>	<u>SS Attributes</u>	<u>SS Type</u>	<u>Qualifier</u>
linkId inherited from Link	linkId	string	Read-Only, M
objectClass inherited from Link	CLASS	string	Read-Only, M
objectInstance inherited from Link	No direct mapping.	string	Read-Only, M
userLabel inherited from Link	userLabel	string	Read-Only, M
aEnd inherited from Link	aEnd	GenericNetworkResourcesIRPSystem::AttributeTypes::MOReference	Read-Only, M
zEnd inherited from Link	zEnd	GenericNetworkResourcesIRPSystem::AttributeTypes::MOReference	Read-Only, M
linkType inherited from Link	linkType	LinkTypeType	Read-Only, O
protocolName inherited from Link	protocolName	string	Read-Only, O
protocolVersion inherited from Link	protocolVersion	string	Read-Only, O

5.2.46 MOC Link_Bgcf_ImsMgw

Mapping from NRM IOC Link_Bgcf-ImsMgw attributes to SS equivalent MOC Link_Bgcf_ImsMgw

<u>NRM Attributes of Link_Bgcf_ImsMgw in TS 32.632 [3]</u>	<u>SS Attributes</u>	<u>SS Type</u>	<u>Qualifier</u>
linkId inherited from Link	linkId	string	Read-Only, M
objectClass inherited from Link	CLASS	string	Read-Only, M
objectInstance inherited from Link	No direct mapping.	string	Read-Only, M
userLabel inherited from Link	userLabel	string	Read-Only, M
aEnd inherited from Link	aEnd	GenericNetworkResourcesIRPSystem::AttributeTypes::MOReference	Read-Only, M
zEnd inherited from Link	zEnd	GenericNetworkResourcesIRPSystem::AttributeTypes::MOReference	Read-Only, M
linkType inherited from Link	linkType	LinkTypeType	Read-Only, O
protocolName inherited from Link	protocolName	string	Read-Only, O
protocolVersion inherited from Link	protocolVersion	string	Read-Only, O

5.2.47 MOC Link_Bgcf_Scscf

Mapping from NRM IOC Link_Bgcf_Scscf attributes to SS equivalent MOC Link_Bgcf_Scscf

<u>NRM Attributes of Link_Bgcf_Scscf in TS 32.632 [3]</u>	<u>SS Attributes</u>	<u>SS Type</u>	<u>Qualifier</u>
linkId inherited from Link	linkId	string	Read-Only, M
objectClass inherited from Link	CLASS	string	Read-Only, M
objectInstance inherited from Link	No direct mapping.	string	Read-Only, M
userLabel inherited from Link	userLabel	string	Read-Only, M
aEnd inherited from Link	aEnd	GenericNetworkResourcesIRPSystem::AttributeTypes::MOReference	Read-Only, M
zEnd inherited from Link	zEnd	GenericNetworkResourcesIRPSystem::AttributeTypes::MOReference	Read-Only, M
linkType inherited from Link	linkType	LinkTypeType	Read-Only, O
protocolName inherited from Link	protocolName	string	Read-Only, O
protocolVersion inherited from Link	protocolVersion	string	Read-Only, O

5.2.48 MOC Link Hlr Scscf

Mapping from NRM IOC Link Hlr Scscf attributes to SS equivalent MOC Link Hlr Scscf

<u>NRM Attributes of Link Cscf Mrfc in TS 32.632 [3]</u>	<u>SS Attributes</u>	<u>SS Type</u>	<u>Qualifier</u>
linkId inherited from Link	linkId	string	Read-Only, M
objectClass inherited from Link	CLASS	string	Read-Only, M
objectInstance inherited from Link	No direct mapping.	string	Read-Only, M
userLabel inherited from Link	userLabel	string	Read-Only, M
aEnd inherited from Link	aEnd	GenericNetworkResourcesIRPSystem::AttributeTypes::MOReference	Read-Only, M
zEnd inherited from Link	zEnd	GenericNetworkResourcesIRPSystem::AttributeTypes::MOReference	Read-Only, M
linkType inherited from Link	linkType	LinkTypeType	Read-Only, O
protocolName inherited from Link	protocolName	string	Read-Only, O
protocolVersion inherited from Link	protocolVersion	string	Read-Only, O

5.2.49 MOC Link Icscf Slf

Mapping from NRM IOC Link Icscf Slf attributes to SS equivalent MOC Link Icscf Slf

<u>NRM Attributes of Link Icscf Slf in TS 32.632 [3]</u>	<u>SS Attributes</u>	<u>SS Type</u>	<u>Qualifier</u>
linkId inherited from Link	linkId	string	Read-Only, M
objectClass inherited from Link	CLASS	string	Read-Only, M
objectInstance inherited from Link	No direct mapping.	string	Read-Only, M
userLabel inherited from Link	userLabel	string	Read-Only, M
aEnd inherited from Link	aEnd	GenericNetworkResourcesIRPSystem::AttributeTypes::MOReference	Read-Only, M
zEnd inherited from Link	zEnd	GenericNetworkResourcesIRPSystem::AttributeTypes::MOReference	Read-Only, M
linkType inherited from Link	linkType	LinkTypeType	Read-Only, O
protocolName inherited from Link	protocolName	string	Read-Only, O
protocolVersion inherited from Link	protocolVersion	string	Read-Only, O

5.2.50 MOC Link_ImsMgw_Mgcf

Mapping from NRM IOC Link_ImsMgw_Mgcf attributes to SS equivalent MOC Link_ImsMgw_Mgcf

<u>NRM Attributes of Link_ImsMgw_Mgcf in TS 32.632 [3]</u>	<u>SS Attributes</u>	<u>SS Type</u>	<u>Qualifier</u>
linkId inherited from Link	linkId	string	Read-Only, M
objectClass inherited from Link	CLASS	string	Read-Only, M
objectInstance inherited from Link	No direct mapping.	string	Read-Only, M
userLabel inherited from Link	userLabel	string	Read-Only, M
aEnd inherited from Link	aEnd	GenericNetworkResourcesIRPSystem::AttributeTypes::MOReference	Read-Only, M
zEnd inherited from Link	zEnd	GenericNetworkResourcesIRPSystem::AttributeTypes::MOReference	Read-Only, M
linkType inherited from Link	linkType	LinkTypeType	Read-Only, O
protocolName inherited from Link	protocolName	string	Read-Only, O
protocolVersion inherited from Link	protocolVersion	string	Read-Only, O

5.2.51 MOC Link_ImsMgw_Scscf

Mapping from NRM IOC Link_ImsMgw_Scscf attributes to SS equivalent MOC Link_ImsMgw_Scscf

<u>NRM Attributes of Link_ImsMgw_Scscf in TS 32.632 [3]</u>	<u>SS Attributes</u>	<u>SS Type</u>	<u>Qualifier</u>
linkId inherited from Link	linkId	string	Read-Only, M
objectClass inherited from Link	CLASS	string	Read-Only, M
objectInstance inherited from Link	No direct mapping.	string	Read-Only, M
userLabel inherited from Link	userLabel	string	Read-Only, M
aEnd inherited from Link	aEnd	GenericNetworkResourcesIRPSystem::AttributeTypes::MOReference	Read-Only, M
zEnd inherited from Link	zEnd	GenericNetworkResourcesIRPSystem::AttributeTypes::MOReference	Read-Only, M
linkType inherited from Link	linkType	LinkTypeType	Read-Only, O
protocolName inherited from Link	protocolName	string	Read-Only, O
protocolVersion inherited from Link	protocolVersion	string	Read-Only, O

5.2.52 MOC Link Mrfc Mrfp

Mapping from NRM IOC Link Mrfc Mrfp attributes to SS equivalent MOC Link Mrfc Mrfp

<u>NRM Attributes of Link Mrfc Mrfp in TS 32.632 [3]</u>	<u>SS Attributes</u>	<u>SS Type</u>	<u>Qualifier</u>
linkId inherited from Link	linkId	string	Read-Only, M
objectClass inherited from Link	CLASS	string	Read-Only, M
objectInstance inherited from Link	No direct mapping.	string	Read-Only, M
userLabel inherited from Link	userLabel	string	Read-Only, M
aEnd inherited from Link	aEnd	GenericNetworkResourcesIRPSystem::AttributeTypes::MORreference	Read-Only, M
zEnd inherited from Link	zEnd	GenericNetworkResourcesIRPSystem::AttributeTypes::MORreference	Read-Only, M
linkType inherited from Link	linkType	LinkTypeType	Read-Only, O
protocolName inherited from Link	protocolName	string	Read-Only, O
protocolVersion inherited from Link	protocolVersion	string	Read-Only, O

5.2.53 MOC Link Mrfc Scscf

Mapping from NRM IOC Link Mrfc Scscf attributes to SS equivalent MOC Link Mrfc Scscf

<u>NRM Attributes of Link Mrfc Scscf in TS 32.632 [3]</u>	<u>SS Attributes</u>	<u>SS Type</u>	<u>Qualifier</u>
linkId inherited from Link	linkId	string	Read-Only, M
objectClass inherited from Link	CLASS	string	Read-Only, M
objectInstance inherited from Link	No direct mapping.	string	Read-Only, M
userLabel inherited from Link	userLabel	string	Read-Only, M
aEnd inherited from Link	aEnd	GenericNetworkResourcesIRPSystem::AttributeTypes::MORreference	Read-Only, M
zEnd inherited from Link	zEnd	GenericNetworkResourcesIRPSystem::AttributeTypes::MORreference	Read-Only, M
linkType inherited from Link	linkType	LinkTypeType	Read-Only, O
protocolName inherited from Link	protocolName	string	Read-Only, O
protocolVersion inherited from Link	protocolVersion	string	Read-Only, O

5.2.54 MOC Link Scscf Slf

Mapping from NRM IOC Link Scscf Slf attributes to SS equivalent MOC Link Scscf Slf

<u>NRM Attributes of Link Scscf Slf in TS 32.632 [3]</u>	<u>SS Attributes</u>	<u>SS Type</u>	<u>Qualifier</u>
linkId inherited from Link	linkId	string	Read-Only, M
objectClass inherited from Link	CLASS	string	Read-Only, M
objectInstance inherited from Link	No direct mapping.	string	Read-Only, M
userLabel inherited from Link	userLabel	string	Read-Only, M
aEnd inherited from Link	aEnd	GenericNetworkResourcesIRPSystem::AttributeTypes::MOReference	Read-Only, M
zEnd inherited from Link	zEnd	GenericNetworkResourcesIRPSystem::AttributeTypes::MOReference	Read-Only, M
linkType inherited from Link	linkType	LinkTypeType	Read-Only, O
protocolName inherited from Link	protocolName	string	Read-Only, O
protocolVersion inherited from Link	protocolVersion	string	Read-Only, O

End of Changes in Clause 5.2

Annex A (normative): CORBA IDL, NRM Definitions

Changes in Clause Annex A

A.1 IDL specification (file name "CoreNetworkResourcesNRMDefs.idl")

```

| // File: CoreNetworkResourcesNRMDefs.idl
| #ifndef _CORENETWORKRESOURCESNRMDEFS_IDL_
| #define _CORENETWORKRESOURCESNRMDEFS_IDL_
| #include "GenericNetworkResourcesNRMDefs.idl"
|
| #pragma prefix "3gppsa5.org"
|
| /**
|  * This module defines constants for each MO class name and
|  * the attribute names for each defined MO class.
|  */
| module CoreNetworkResourcesNRMDefs
| {
|
|     /**
|      * Definitions for MO class MscServerFunction
|      */
|     interface MscServerFunction :
| GenericNetworkResourcesNRMDefs::ManagedFunction
|     {
|         const string CLASS = "MscServerFunction";
|
|         // Attribute Names
|         //
|         const string mscServerFunctionId = "mscServerFunctionId";
|         const string mccList = "mccList";
|         const string mncList = "mncList";
|         const string lacList = "lacList";
|         const string sacList = "sacList";
|         const string gcaList = "gcaList";
|         const string mscId = "mscId";
|         const string mscServerFunctionGSMcell = "mscServerFunctionGSMcell";
|         const string mscServerFunctionExternalGSMcell =
| "mscServerFunctionExternalGSMcell";
|         const string mscServerFunctionCsMgwFunction =
| "mscServerFunctionCsMgwFunction";
|     };
|
|     /**
|      * Definitions for MO class HlrFunction
|      */
|     interface HlrFunction : GenericNetworkResourcesNRMDefs::ManagedFunction
|     {
|         const string CLASS = "HlrFunction";
|
|         // Attribute Names
|         //
|         const string hlrFunctionId = "hlrFunctionId";
|     };

```

```
/**
 * Definitions for MO class VlrFunction
 */
interface VlrFunction : GenericNetworkResourcesNRMDefs::ManagedFunction
{
    const string CLASS = "VlrFunction";

    // Attribute Names
    //
    const string vlrFunctionId = "vlrFunctionId";
};
```

```
/**
 * Definitions for MO class AucFunction
 */
interface AucFunction : GenericNetworkResourcesNRMDefs::ManagedFunction
{
    const string CLASS = "AucFunction";

    // Attribute Names
    //
    const string aucFunctionId = "aucFunctionId";
};
```

```
/**
 * Definitions for MO class EirFunction
 */
interface EirFunction : GenericNetworkResourcesNRMDefs::ManagedFunction
{
    const string CLASS = "EirFunction";

    // Attribute Names
    //
    const string eirFunctionId = "eirFunctionId";
};
```

```
/**
 * Definitions for MO class SmsIwmscFunction
 */
interface SmsIwmscFunction :
GenericNetworkResourcesNRMDefs::ManagedFunction
{
    const string CLASS = "SmsIwmscFunction";

    // Attribute Names
    //
    const string smsIwmscFunctionId = "smsIwmscFunctionId";
};
```

```
/**
 * Definitions for MO class SmsGmscFunction
 */
interface SmsGmscFunction :
GenericNetworkResourcesNRMDefs::ManagedFunction
{
    const string CLASS = "SmsGmscFunction";

    // Attribute Names
    //
    const string smsGmscFunctionId = "smsGmscFunctionId";
};
```

```
};

/**
 * Definitions for MO class SgsnFunction
 */
interface SgsnFunction : GenericNetworkResourcesNRMDefs::ManagedFunction
{
    const string CLASS = "SgsnFunction";

    // Attribute Names
    //
    const string sgsnFunctionId = "sgsnFunctionId";
    const string mccList = "mccList";
    const string mncList = "mncList";
    const string lacList = "lacList";
    const string racList = "racList";
    const string sacList = "sacList";
    const string sgsnId = "sgsnId";
    const string sgsnFunctionGSMcell = "sgsnFunctionGSMcell";
    const string sgsnFunctionExternalGSMcell = "sgsnFunctionExternalGSMcell";
};

/**
 * Definitions for MO class GgsnFunction
 */
interface GgsnFunction : GenericNetworkResourcesNRMDefs::ManagedFunction
{
    const string CLASS = "GgsnFunction";

    // Attribute Names
    //
    const string ggsnFunctionId = "ggsnFunctionId";
};

/**
 * Definitions for MO class BgFunction
 */
interface BgFunction : GenericNetworkResourcesNRMDefs::ManagedFunction
{
    const string CLASS = "BgFunction";

    // Attribute Names
    //
    const string bgFunctionId = "bgFunctionId";
};

/**
 * Definitions for MO class GmscFunction
 */
interface GmscFunction : GenericNetworkResourcesNRMDefs::ManagedFunction
{
    const string CLASS = "GmscFunction";

    // Attribute Names
    //
    const string gmscFunctionId = "gmscFunctionId";
};

/**
 * Definitions for MO class SmlcFunction
 */
```

```
interface SmlcFunction : GenericNetworkResourcesNRMDefs::ManagedFunction
{
    const string CLASS = "SmlcFunction";

    // Attribute Names
    //
    const string smlcFunctionId = "smlcFunctionId";
};

/**
 * Definitions for MO class GmlcFunction
 */
interface GmlcFunction : GenericNetworkResourcesNRMDefs::ManagedFunction
{
    const string CLASS = "GmlcFunction";

    // Attribute Names
    //
    const string gmlcFunctionId = "gmlcFunctionId";
};

/**
 * Definitions for MO class ScfFunction
 */
interface ScfFunction : GenericNetworkResourcesNRMDefs::ManagedFunction
{
    const string CLASS = "ScfFunction";

    // Attribute Names
    //
    const string scfFunctionId = "scfFunctionId";
};

/**
 * Definitions for MO class SrfFunction
 */
interface SrfFunction : GenericNetworkResourcesNRMDefs::ManagedFunction
{
    const string CLASS = "SrfFunction";

    // Attribute Names
    //
    const string srfFunctionId = "srfFunctionId";
};

/**
 * Definitions for MO class CbcFunction
 */
interface CbcFunction : GenericNetworkResourcesNRMDefs::ManagedFunction
{
    const string CLASS = "CbcFunction";

    // Attribute Names
    //
    const string cbcFunctionId = "cbcFunctionId";
};

/**
 * Definitions for MO class CgfFunction
```



```
*/
interface CgfFunction : GenericNetworkResourcesNRMDefs::ManagedFunction
{
    const string CLASS = "CgfFunction";

    // Attribute Names
    //
    const string cgfFunctionId = "cgfFunctionId";
};

/**
 * Definitions for MO class ImsMgwFunction
 */
interface ImsMgwFunction : GenericNetworkResourcesNRMDefs::ManagedFunction
{
    const string CLASS = "ImsMgwFunction";

    // Attribute Names
    //
    const string imsMgwFunctionId = "imsMgwFunctionId";
};

/**
 * Definitions for MO class GmscServerFunction
 */
interface GmscServerFunction :
GenericNetworkResourcesNRMDefs::ManagedFunction
{
    const string CLASS = "GmscServerFunction";

    // Attribute Names
    //
    const string gmscServerFunctionId = "gmscServerFunctionId";
};

/**
 * Definitions for MO class IwfFunction
 */
interface IwfFunction : GenericNetworkResourcesNRMDefs::ManagedFunction
{
    const string CLASS = "IwfFunction";

    // Attribute Names
    //
    const string iwfunctionId = "iwfunctionId";
};

/**
 * Definitions for MO class MnpSrfFunction
 */
interface MnpSrfFunction : GenericNetworkResourcesNRMDefs::ManagedFunction
{
    const string CLASS = "MnpSrfFunction";

    // Attribute Names
    //
    const string mnpSrfFunctionId = "mnpSrfFunctionId";
};

/**
 * Definitions for MO class NpdbFunction
```

```
*/
interface NpdbFunction : GenericNetworkResourcesNRMDefs::ManagedFunction
{
    const string CLASS = "NpdbFunction";

    // Attribute Names
    //
    const string npdbFunctionId = "npdbFunctionId";
};

/**
 * Definitions for MO class SgwFunction
 */
interface SgwFunction : GenericNetworkResourcesNRMDefs::ManagedFunction
{
    const string CLASS = "SgwFunction";

    // Attribute Names
    //
    const string sgwFunctionId = "sgwFunctionId";
};

/**
 * Definitions for MO class SsfFunction
 */
interface SsfFunction : GenericNetworkResourcesNRMDefs::ManagedFunction
{
    const string CLASS = "SsfFunction";

    // Attribute Names
    //
    const string ssfFunctionId = "ssfFunctionId";
};

/**
 * Definitions for MO class ScscfFunction
 */
interface ScscfFunction : GenericNetworkResourcesNRMDefs::ManagedFunction
{
    const string CLASS = "ScscfFunction";

    // Attribute Names
    //
    const string scscfFunctionId = "scscfFunctionId";
};

/**
 * Definitions for MO class PcscfFunction
 */
interface PcscfFunction : GenericNetworkResourcesNRMDefs::ManagedFunction
{
    const string CLASS = "PcscfFunction";
    // Attribute Names
    //
    const string pcscfFunctionId = "pcscfFunctionId";
};

/**
```

```
* Definitions for MO class IcscfFunction
*/
interface IcscfFunction : GenericNetworkResourcesNRMDefs::ManagedFunction
{
    const string CLASS = "IcscfFunction";

    // Attribute Names
    //
    const string icscfFunctionId = "icscfFunctionId";
};

/**
 * Definitions for MO class SlfFunction
 */
interface SlfFunction : GenericNetworkResourcesNRMDefs::ManagedFunction
{
    const string CLASS = "SlfFunction";

    // Attribute Names
    //
    const string slfFunctionId = "slfFunctionId";
};

/**
 * Definitions for MO class BgcFunction
 */
interface BgcFunction : GenericNetworkResourcesNRMDefs::ManagedFunction
{
    const string CLASS = "BgcFunction";

    // Attribute Names
    //
    const string bgcFunctionId = "bgcFunctionId";
};

/**
 * Definitions for MO class MrfcFunction
 */
interface MrfcFunction : GenericNetworkResourcesNRMDefs::ManagedFunction
{
    const string CLASS = "MrfcFunction";

    // Attribute Names
    //
    const string mrfcFunctionId = "mrfcFunctionId";
};

/**
 * Definitions for MO class MrfpFunction
 */
interface MrfpFunction : GenericNetworkResourcesNRMDefs::ManagedFunction
{
    const string CLASS = "MrfpFunction";

    // Attribute Names
    //
    const string mrfpFunctionId = "mrfpFunctionId";
};
```

```
/**
 * Definitions for MO class AsFunction
 */
interface AsFunction : GenericNetworkResourcesNRMDefs::ManagedFunction
{
    const string CLASS = "AsFunction";

    // Attribute Names
    //
    const string asFunctionId = "asFunctionId";
};

/**
 * Definitions for MO class MgcFunction
 */
interface MgcFunction : GenericNetworkResourcesNRMDefs::ManagedFunction
{
    const string CLASS = "MgcFunction";

    // Attribute Names
    //
    const string mgcFunctionId = "mgcFunctionId";
};

/**
 * Definitions for MO class BsFunction
 */
interface BsFunction : GenericNetworkResourcesNRMDefs::ManagedFunction
{
    const string CLASS = "BsFunction";

    // Attribute Names
    //
    const string bsFunctionId = "bsFunctionId";
};

/**
 * Definitions for MO class IucsLink
 */
interface IucsLink : GenericNetworkResourcesNRMDefs::ManagedFunction
{
    const string CLASS = "IucsLink";

    // Attribute Names
    //
    const string iucsLinkId = "iucsLinkId";
    const string connectedRnc = "connectedRnc";
    const string connectedBss = "connectedBss";
};

/**
 * Definitions for MO class IupsLink
 */
interface IupsLink : GenericNetworkResourcesNRMDefs::ManagedFunction
{
```

```
const string CLASS = "IupsLink";

// Attribute Names
//
const string iupsLinkId = "iupsLinkId";
const string connectedRnc = "connectedRnc";
const string connectedBss = "connectedBss";
};

/**
 * Definitions for MO class IubcLink
 */
interface IubcLink : GenericNetworkResourcesNRMDefs::ManagedFunction
{
    const string CLASS = "IubcLink";

    // Attribute Names
    //
    const string iubcLinkId = "iubcLinkId";
    const string connectedRnc = "connectedRnc";
};

/**
 * Definitions for MO class ALink
 */
interface ALink : GenericNetworkResourcesNRMDefs::ManagedFunction
{
    const string CLASS = "ALink";

    // Attribute Names
    //
    const string aLinkId = "aLinkId";
    const string connectedBss = "connectedBss";
};

/**
 * Definitions for MO class GbLink
 */
interface GbLink : GenericNetworkResourcesNRMDefs::ManagedFunction
{
    const string CLASS = "GbLink";

    // Attribute Names
    //
    const string gbLinkId = "gbLinkId";
    const string connectedBss = "connectedBss";
};

/**
 * Definitions for MO class CsMgwFunction
 */
interface CsMgwFunction : GenericNetworkResourcesNRMDefs::ManagedFunction
{
    const string CLASS = "CsMgwFunction";

    // Attribute Names
    //
```

```
const string csMgwFunctionId = "csMgwFunctionId";
const string csMgwFunctionMscServerFunction =
"csMgwFunctionMscServerFunction";
const string csMgwFunctionIucsLink = "csMgwFunctionIucsLink";
const string csMgwFunctionALink = "csMgwFunctionALink";
};

/**
 * Definitions for MO class Link_As_Auc
 */
interface Link_As_Auc : GenericNetworkResourcesNRMDefs::Link
{
    const string CLASS = "Link_As_Auc";

    // All Attributes inherited from Link
};

/**
 * Definitions for MO class Link_As_Hlr
 */
interface Link_As_Hlr : GenericNetworkResourcesNRMDefs::Link
{
    const string CLASS = "Link_As_Hlr";

    // All Attributes inherited from Link
};

/**
 * Definitions for MO class Link_As_Scscf
 */
interface Link_As_Scscf : GenericNetworkResourcesNRMDefs::Link
{
    const string CLASS = "Link_As_Scscf";

    // All Attributes inherited from Link
};

/**
 * Definitions for MO class Link_As_Slf
 */
interface Link_As_Slf : GenericNetworkResourcesNRMDefs::Link
{
    const string CLASS = "Link_As_Slf";

    // All Attributes inherited from Link
};

/**
 * Definitions for MO class Link_Bgcf_Bgcf
 */
interface Link_Bgcf_Bgcf : GenericNetworkResourcesNRMDefs::Link
{
    const string CLASS = "Link_Bgcf_Bgcf";

    // All Attributes inherited from Link
};

/**
```

```

    * Definitions for MO class Link_Bgcf_ImsMgw
    */
interface Link_Bgcf_ImsMgw : GenericNetworkResourcesNRMDefs::Link
{
    const string CLASS = "Link_Bgcf_ImsMgw";
    // All Attributes inherited from Link
};

/**
 * Definitions for MO class Link_Bgcf_Scscf
 */
interface Link_Bgcf_Scscf : GenericNetworkResourcesNRMDefs::Link
{
    const string CLASS = "Link_Bgcf_Scscf";

    // All Attributes inherited from Link
};

/**
 * Definitions for MO class Link_Hlr_Scscf
 */
interface Link_Hlr_Scscf : GenericNetworkResourcesNRMDefs::Link
{
    const string CLASS = "Link_Hlr_Scscf";

    // All Attributes inherited from Link
};

/**
 * Definitions for MO class Link_Icscf_Slf
 */
interface Link_Icscf_Slf : GenericNetworkResourcesNRMDefs::Link
{
    const string CLASS = "Link_Icscf_Slf";

    // All Attributes inherited from Link
};

/**
 * Definitions for MO class Link_ImsMgw_Mgcf
 */
interface Link_ImsMgw_Mgcf : GenericNetworkResourcesNRMDefs::Link
{
    const string CLASS = "Link_ImsMgw_Mgcf";

    // All Attributes inherited from Link
};

/**
 * Definitions for MO class Link_ImsMgw_Scscf
 */
interface Link_ImsMgw_Scscf : GenericNetworkResourcesNRMDefs::Link
{
    const string CLASS = "Link_ImsMgw_Scscf";

    // All Attributes inherited from Link
};

/**
```

```

    * Definitions for MO class Link_Mrfc_Mrpf
    */
    interface Link_Mrfc_Mrpf : GenericNetworkResourcesNRMDefs::Link
    {
        const string CLASS = "Link_Mrfc_Mrpf";

        // All Attributes inherited from Link
    };

    /**
    * Definitions for MO class Link_Mrfc_Scscf
    */
    interface Link_Mrfc_Scscf : GenericNetworkResourcesNRMDefs::Link
    {
        const string CLASS = "Link_Mrfc_Scscf";

        // All Attributes inherited from Link
    };

    /**
    * Definitions for MO class Link_Scscf_Slf
    */
    interface Link_Scscf_Slf : GenericNetworkResourcesNRMDefs::Link
    {
        const string CLASS = "Link_Scscf_Slf";

        // All Attributes inherited from Link
    };
};

#endif // _CORENETWORKRESOURCESNRMDEFS_IDL_

```

End of Change in Clause Annex A
End of Document

Annex B (informative): Change history

Change history							
Date	TSG #	TSG Doc.	CR	Rev	Subject/Comment	Old	New
Sep 2004	S_25	SP-040582	005	--	Correction of modelling of Media GateWay (MGW)	5.1.0	5.2.0
Sep 2004	S_25	SP-040581	006	--	Add Inheritance in CORBA IDL	5.2.0	6.0.0
Dec 2004	S_26	SP-040809	007	--	Add new IMS Entities	6.0.0	6.1.0
Dec 2004	S_26	SP-040809	008	--	Add restart notification to GSN objects using "proceduralStatus" attribute - Align with IS in 32.632	6.0.0	6.1.0

CHANGE REQUEST

⌘ **32.635 CR 011** ⌘ rev **-** ⌘ Current version: **6.1.0** ⌘

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

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

Title:	⌘ IMS Link Additions and compile error corrections to coreNRM.xsd		
Source:	⌘ SA5 (mohanr@lucent.com)		
Work item code:	⌘ OAM-NIM	Date:	⌘ 28/01/2005
Category:	⌘ B	Release:	⌘ Rel-6
	Use <i>one</i> of the following categories: F (correction) A (corresponds to a correction in an earlier release) B (addition of feature), C (functional modification of feature) D (editorial modification) Detailed explanations of the above categories can be found in 3GPP TR 21.900 .		Use <i>one</i> of the following releases: Ph2 (GSM Phase 2) R96 (Release 1996) R97 (Release 1997) R98 (Release 1998) R99 (Release 1999) Rel-4 (Release 4) Rel-5 (Release 5) Rel-6 (Release 6) Rel-7 (Release 7)

Reason for change:	⌘ Definitions for new IMS links need to be added and compile errors fixed.		
Summary of change:	⌘ <ul style="list-style-type: none"> • Clause 2 – the pointer to the IS is incremented. • Changed formatting in element schema • Added new IMS links. 		
Consequences if not approved:	⌘		

Clauses affected:	⌘ Clause 2, Annex A, Annex B										
Other specs affected:	<table border="1" style="display: inline-table; border-collapse: collapse; text-align: center;"> <tr> <td style="width: 20px;">Y</td> <td style="width: 20px;">N</td> </tr> <tr> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> <tr> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> <tr> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> </table> Other core specifications ⌘ Test specifications ⌘ O&M Specifications ⌘	Y	N	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
Y	N										
<input type="checkbox"/>	<input type="checkbox"/>										
<input type="checkbox"/>	<input type="checkbox"/>										
<input type="checkbox"/>	<input type="checkbox"/>										
Other comments:	⌘										

Change in Clause 1

1 Scope

The present document provides the NRM-specific part related to the Core Network Resources IRP NRM [1] of the XML file format definition for the Bulk Configuration Management IRP IS [2].

The main part of this XML file format definition is provided by 3GPP TS 32.615 [3].

Bulk CM XML file formats are based on XML [4], XML Schema [5] [6] [7] and XML Namespace [8] standards.

This File Format Definition specification is related to 3GPP TS 32.632 V6.12.X.

End Change in Clause 1

Change in Clause Annex A

Annex A (normative): Configuration data file NRM-specific XML schema (file name "coreNrm.xsd")

The following XML schema coreNrm.xsd is the NRM-specific schema for the Core Network Resources IRP NRM defined in 3GPP TS 32.632 [1]:

```
<?xml version="1.0" encoding="UTF-8"?>

<!--
  3GPP TS 32.635 Core Network Resources IRP
  Bulk CM Configuration data file NRM-specific XML schema
  coreNrm.xsd
-->

<schema
  targetNamespace=
    "http://www.3gpp.org/ftp/specs/archive/32_series/32.635#coreNrm"
  elementFormDefault="qualified"
  xmlns="http://www.w3.org/2001/XMLSchema"
  xmlns:xn=
    "http://www.3gpp.org/ftp/specs/archive/32_series/32.625#genericNrm"
  xmlns:cn=
    "http://www.3gpp.org/ftp/specs/archive/32_series/32.635#coreNrm"
>

<schema
  targetNamespace="http://www.3gpp.org/ftp/specs/archive/32_series/32.645#utranNrm"
  elementFormDefault="qualified"
  xmlns="http://www.w3.org/2001/XMLSchema"
  xmlns:xn="http://www.3gpp.org/ftp/specs/archive/32_series/32.625#genericNrm"
  xmlns:cn="http://www.3gpp.org/ftp/specs/archive/32_series/32.645#coreNrm"
>

<import
  namespace=
    "http://www.3gpp.org/ftp/specs/archive/32_series/32.625#genericNrm"
  />
<!--
```

The schemaLocation paramter should have the complete path of the imported XSD file if the file is not located in the directories defined by the \$PATH variable of the user's machine.

-->

```
<import namespace="http://www.3gpp.org/ftp/specs/archive/32_series/32.625#genericNrm"
schemaLocation="genericNRM.xsd"/>
```

```
<!-- Core Network Resources IRP NRM class associated XML elements -->
```

```
<element
  name="MscServerFunction"
  substitutionGroup="xn:ManagedElementOptionallyContainedNrmClass"
>
  <complexType>
    <complexContent>
      <extension base="xn:NrmClass">
        <sequence>
          <element name="attributes" minOccurs="0">
            <complexType>
              <all>
                <element name="userLabel" minOccurs="0"/>
                <element name="mccList" minOccurs="0"/>
                <element name="mncList" minOccurs="0"/>
                <element name="lacList" minOccurs="0"/>
                <element name="sacList" minOccurs="0"/>
                <element name="gcaList" minOccurs="0"/>
                <element name="mscId" minOccurs="0"/>
              </all>
            </complexType>
          </element>
          <choice minOccurs="0" maxOccurs="unbounded">
            <element name="mscServerFunctionGSMcell"/>
            <element name="mscServerFunctionExternalGSMcell"/>
            <element name="mscServerFunctionCsMgwFunction"/>
            <element ref="xn:VsDataContainer"/>
          </choice>
        </sequence>
      </extension>
    </complexContent>
  </complexType>
</element>

<element
  name="HlrFunction"
  substitutionGroup="xn:ManagedElementOptionallyContainedNrmClass"
>
  <complexType>
    <complexContent>
      <extension base="xn:NrmClass">
        <sequence>
          <element name="attributes" minOccurs="0">
            <complexType>
              <all>
                <element name="userLabel" minOccurs="0"/>
              </all>
            </complexType>
          </element>
          <choice minOccurs="0" maxOccurs="unbounded">
            <element ref="xn:VsDataContainer"/>
          </choice>
        </sequence>
      </extension>
    </complexContent>
  </complexType>
</element>

<element
  name="VlrFunction"
  substitutionGroup="xn:ManagedElementOptionallyContainedNrmClass"
>
  <complexType>
    <complexContent>
      <extension base="xn:NrmClass">
        <sequence>
          <element name="attributes" minOccurs="0">
            <complexType>
              <all>
```

```

        <element name="userLabel" minOccurs="0"/>
    </all>
</complexType>
</element>
<choice minOccurs="0" maxOccurs="unbounded">
    <element ref="xn:VsDataContainer"/>
</choice>
</sequence>
</extension>
</complexContent>
</complexType>
</element>

<element
    name="AucFunction"
    substitutionGroup="xn:ManagedElementOptionallyContainedNrmClass"
>
    <complexType>
        <complexContent>
            <extension base="xn:NrmClass">
                <sequence>
                    <element name="attributes" minOccurs="0">
                        <complexType>
                            <all>
                                <element name="userLabel" minOccurs="0"/>
                            </all>
                        </complexType>
                    </element>
                    <choice minOccurs="0" maxOccurs="unbounded">
                        <element ref="xn:VsDataContainer"/>
                    </choice>
                </sequence>
            </extension>
        </complexContent>
    </complexType>
</element>

<element
    name="EirFunction"
    substitutionGroup="xn:ManagedElementOptionallyContainedNrmClass"
>
    <complexType>
        <complexContent>
            <extension base="xn:NrmClass">
                <sequence>
                    <element name="attributes" minOccurs="0">
                        <complexType>
                            <all>
                                <element name="userLabel" minOccurs="0"/>
                            </all>
                        </complexType>
                    </element>
                    <choice minOccurs="0" maxOccurs="unbounded">
                        <element ref="xn:VsDataContainer"/>
                    </choice>
                </sequence>
            </extension>
        </complexContent>
    </complexType>
</element>

<element
    name="SmsIwmscFunction"
    substitutionGroup="xn:ManagedElementOptionallyContainedNrmClass"
>
    <complexType>
        <complexContent>
            <extension base="xn:NrmClass">
                <sequence>
                    <element name="attributes" minOccurs="0">
                        <complexType>
                            <all>
                                <element name="userLabel" minOccurs="0"/>
                            </all>
                        </complexType>
                    </element>
                    <choice minOccurs="0" maxOccurs="unbounded">
                        <element ref="xn:VsDataContainer"/>
                    </choice>
                </sequence>
            </extension>
        </complexContent>
    </complexType>
</element>

```

```

        </choice>
      </sequence>
    </extension>
  </complexContent>
</complexType>
</element>

<element
  name="SmsGsmcFunction"
  substitutionGroup="xn:ManagedElementOptionallyContainedNrmClass"
>
  <complexType>
    <complexContent>
      <extension base="xn:NrmClass">
        <sequence>
          <element name="attributes" minOccurs="0">
            <complexType>
              <all>
                <element name="userLabel" minOccurs="0"/>
              </all>
            </complexType>
          </element>
          <choice minOccurs="0" maxOccurs="unbounded">
            <element ref="xn:VsDataContainer"/>
          </choice>
        </sequence>
      </extension>
    </complexContent>
  </complexType>
</element>

<element
  name="GsmcFunction"
  substitutionGroup="xn:ManagedElementOptionallyContainedNrmClass"
>
  <complexType>
    <complexContent>
      <extension base="xn:NrmClass">
        <sequence>
          <element name="attributes" minOccurs="0">
            <complexType>
              <all>
                <element name="userLabel" minOccurs="0"/>
              </all>
            </complexType>
          </element>
          <choice minOccurs="0" maxOccurs="unbounded">
            <element ref="xn:VsDataContainer"/>
          </choice>
        </sequence>
      </extension>
    </complexContent>
  </complexType>
</element>

<element
  name="SgsnFunction"
  substitutionGroup="xn:ManagedElementOptionallyContainedNrmClass"
>
  <complexType>
    <complexContent>
      <extension base="xn:NrmClass">
        <sequence>
          <element name="attributes" minOccurs="0">
            <complexType>
              <all>
                <element name="userLabel" minOccurs="0"/>
                <element name="mccList" minOccurs="0"/>
                <element name="mncList" minOccurs="0"/>
                <element name="lacList" minOccurs="0"/>
                <element name="racList" minOccurs="0"/>
                <element name="sacList" minOccurs="0"/>
                <element name="sgsnId" minOccurs="0"/>
              </all>
            </complexType>
          </element>
          <choice minOccurs="0" maxOccurs="unbounded">
            <element name="sgsnFunctionGSMcell"/>
          </choice>
        </sequence>
      </extension>
    </complexContent>
  </complexType>
</element>

```

```

        <element name="cn:sgsnFunctionExternalGSMcell"/>
        <element ref="xn:VsDataContainer"/>
    </choice>
</sequence>
</extension>
</complexType>
</element>

<element
    name="GgsnFunction"
    substitutionGroup="xn:ManagedElementOptionallyContainedNrmClass"
>
    <complexType>
        <complexContent>
            <extension base="xn:NrmClass">
                <sequence>
                    <element name="attributes" minOccurs="0">
                        <complexType>
                            <all>
                                <element name="userLabel" minOccurs="0"/>
                            </all>
                        </complexType>
                    </element>
                    <choice minOccurs="0" maxOccurs="unbounded">
                        <element ref="xn:VsDataContainer"/>
                    </choice>
                </sequence>
            </extension>
        </complexContent>
    </complexType>
</element>

<element
    name="BgFunction"
    substitutionGroup="xn:ManagedElementOptionallyContainedNrmClass"
>
    <complexType>
        <complexContent>
            <extension base="xn:NrmClass">
                <sequence>
                    <element name="attributes" minOccurs="0">
                        <complexType>
                            <all>
                                <element name="userLabel" minOccurs="0"/>
                            </all>
                        </complexType>
                    </element>
                    <choice minOccurs="0" maxOccurs="unbounded">
                        <element ref="xn:VsDataContainer"/>
                    </choice>
                </sequence>
            </extension>
        </complexContent>
    </complexType>
</element>

<element
    name="SmlcFunction"
    substitutionGroup="xn:ManagedElementOptionallyContainedNrmClass"
>
    <complexType>
        <complexContent>
            <extension base="xn:NrmClass">
                <sequence>
                    <element name="attributes" minOccurs="0">
                        <complexType>
                            <all>
                                <element name="userLabel" minOccurs="0"/>
                            </all>
                        </complexType>
                    </element>
                    <choice minOccurs="0" maxOccurs="unbounded">
                        <element ref="xn:VsDataContainer"/>
                    </choice>
                </sequence>
            </extension>
        </complexContent>
    </complexType>
</element>

```

```

    </complexType>
  </element>

  <element
    name="GmlcFunction"
    substitutionGroup="xn:ManagedElementOptionallyContainedNrmClass"
  >
    <complexType>
      <complexContent>
        <extension base="xn:NrmClass">
          <sequence>
            <element name="attributes" minOccurs="0">
              <complexType>
                <all>
                  <element name="userLabel" minOccurs="0"/>
                </all>
              </complexType>
            </element>
            <choice minOccurs="0" maxOccurs="unbounded">
              <element ref="xn:VsDataContainer"/>
            </choice>
          </sequence>
        </extension>
      </complexContent>
    </complexType>
  </element>

  <element
    name="ScfFunction"
    substitutionGroup="xn:ManagedElementOptionallyContainedNrmClass"
  >
    <complexType>
      <complexContent>
        <extension base="xn:NrmClass">
          <sequence>
            <element name="attributes" minOccurs="0">
              <complexType>
                <all>
                  <element name="userLabel" minOccurs="0"/>
                </all>
              </complexType>
            </element>
            <choice minOccurs="0" maxOccurs="unbounded">
              <element ref="xn:VsDataContainer"/>
            </choice>
          </sequence>
        </extension>
      </complexContent>
    </complexType>
  </element>

  <element name="IucsLink">
    <complexType>
      <complexContent>
        <extension base="xn:NrmClass">
          <sequence>
            <element name="attributes" minOccurs="0">
              <complexType>
                <all>
                  <element name="userLabel" minOccurs="0"/>
                  <element name="connectedRnc" minOccurs="0"/>
                  <element name="connectedBss" minOccurs="0"/>
                </all>
              </complexType>
            </element>
            <choice minOccurs="0" maxOccurs="unbounded">
              <element ref="xn:VsDataContainer"/>
            </choice>
          </sequence>
        </extension>
      </complexContent>
    </complexType>
  </element>

  <element name="IupsLink">
    <complexType>
      <complexContent>

```

```

<extension base="xn:NrmClass">
  <sequence>
    <element name="attributes" minOccurs="0">
      <complexType>
        <all>
          <element name="userLabel" minOccurs="0"/>
          <element name="connectedRnc" minOccurs="0"/>
          <element name="connectedBss" minOccurs="0"/>
        </all>
      </complexType>
    </element>
    <choice minOccurs="0" maxOccurs="unbounded">
      <element ref="xn:VsDataContainer"/>
    </choice>
  </sequence>
</extension>
</complexContent>
</complexType>
</element>

```

```

<element name="IubcLink">
  <complexType>
    <complexContent>
      <extension base="xn:NrmClass">
        <sequence>
          <element name="attributes" minOccurs="0">
            <complexType>
              <all>
                <element name="userLabel" minOccurs="0"/>
                <element name="connectedRnc" minOccurs="0"/>
              </all>
            </complexType>
          </element>
          <choice minOccurs="0" maxOccurs="unbounded">
            <element ref="xn:VsDataContainer"/>
          </choice>
        </sequence>
      </extension>
    </complexContent>
  </complexType>
</element>

```

```

<element name="ALink">
  <complexType>
    <complexContent>
      <extension base="xn:NrmClass">
        <sequence>
          <element name="attributes" minOccurs="0">
            <complexType>
              <all>
                <element name="userLabel" minOccurs="0"/>
                <element name="connectedBss" minOccurs="0"/>
              </all>
            </complexType>
          </element>
          <choice minOccurs="0" maxOccurs="unbounded">
            <element ref="xn:VsDataContainer"/>
          </choice>
        </sequence>
      </extension>
    </complexContent>
  </complexType>
</element>

```

```

<element name="GbLink">
  <complexType>
    <complexContent>
      <extension base="xn:NrmClass">
        <sequence>
          <element name="attributes" minOccurs="0">
            <complexType>
              <all>
                <element name="userLabel" minOccurs="0"/>
                <element name="connectedBss" minOccurs="0"/>
              </all>
            </complexType>
          </element>
          <choice minOccurs="0" maxOccurs="unbounded">

```



```

        <element ref="xn:VsDataContainer" />
    </choice>
</sequence>
</extension>
</complexContent>
</complexType>
</element>

<element
  name="SrfFunction"
  substitutionGroup="xn:ManagedElementOptionallyContainedNrmClass"
>
  <complexType>
    <complexContent>
      <extension base="xn:NrmClass">
        <sequence>
          <element name="attributes" minOccurs="0">
            <complexType>
              <all>
                <element name="userLabel" minOccurs="0" />
              </all>
            </complexType>
          </element>
          <choice minOccurs="0" maxOccurs="unbounded">
            <element ref="xn:VsDataContainer" />
          </choice>
        </sequence>
      </extension>
    </complexContent>
  </complexType>
</element>

<element
  name="CbFunction"
  substitutionGroup="xn:ManagedElementOptionallyContainedNrmClass"
>
  <complexType>
    <complexContent>
      <extension base="xn:NrmClass">
        <sequence>
          <element name="attributes" minOccurs="0">
            <complexType>
              <all>
                <element name="userLabel" minOccurs="0" />
              </all>
            </complexType>
          </element>
          <choice minOccurs="0" maxOccurs="unbounded">
            <element ref="xn:VsDataContainer" />
          </choice>
        </sequence>
      </extension>
    </complexContent>
  </complexType>
</element>

<element
  name="CgFunction"
  substitutionGroup="xn:ManagedElementOptionallyContainedNrmClass"
>
  <complexType>
    <complexContent>
      <extension base="xn:NrmClass">
        <sequence>
          <element name="attributes" minOccurs="0">
            <complexType>
              <all>
                <element name="userLabel" minOccurs="0" />
              </all>
            </complexType>
          </element>
          <choice minOccurs="0" maxOccurs="unbounded">
            <element ref="xn:VsDataContainer" />
          </choice>
        </sequence>
      </extension>
    </complexContent>
  </complexType>
</element>

```

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    </complexType>
  </element>

  <element
    name="ImsMgwFunction"
    substitutionGroup="xn:ManagedElementOptionallyContainedNrmClass"
  >
    <complexType>
      <complexContent>
        <extension base="xn:NrmClass">
          <sequence>
            <element name="attributes" minOccurs="0">
              <complexType>
                <all>
                  <element name="userLabel" minOccurs="0"/>
                </all>
              </complexType>
            </element>
            <choice minOccurs="0" maxOccurs="unbounded">
              <element ref="xn:VsDataContainer"/>
            </choice>
          </sequence>
        </extension>
      </complexContent>
    </complexType>
  </element>

  <element
    name="GmscServerFunction"
    substitutionGroup="xn:ManagedElementOptionallyContainedNrmClass"
  >
    <complexType>
      <complexContent>
        <extension base="xn:NrmClass">
          <sequence>
            <element name="attributes" minOccurs="0">
              <complexType>
                <all>
                  <element name="userLabel" minOccurs="0"/>
                </all>
              </complexType>
            </element>
            <choice minOccurs="0" maxOccurs="unbounded">
              <element ref="xn:VsDataContainer"/>
            </choice>
          </sequence>
        </extension>
      </complexContent>
    </complexType>
  </element>

  <element
    name="IwffFunction"
    substitutionGroup="xn:ManagedElementOptionallyContainedNrmClass"
  >
    <complexType>
      <complexContent>
        <extension base="xn:NrmClass">
          <sequence>
            <element name="attributes" minOccurs="0">
              <complexType>
                <all>
                  <element name="userLabel" minOccurs="0"/>
                </all>
              </complexType>
            </element>
            <choice minOccurs="0" maxOccurs="unbounded">
              <element ref="xn:VsDataContainer"/>
            </choice>
          </sequence>
        </extension>
      </complexContent>
    </complexType>
  </element>

  <element
    name="MnpSrfFunction"
    substitutionGroup="xn:ManagedElementOptionallyContainedNrmClass"

```

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>
<complexType>
  <complexContent>
    <extension base="xn:NrmClass">
      <sequence>
        <element name="attributes" minOccurs="0">
          <complexType>
            <all>
              <element name="userLabel" minOccurs="0"/>
            </all>
          </complexType>
        </element>
        <choice minOccurs="0" maxOccurs="unbounded">
          <element ref="xn:VsDataContainer"/>
        </choice>
      </sequence>
    </extension>
  </complexContent>
</complexType>
</element>

<element
  name="NpdbFunction"
  substitutionGroup="xn:ManagedElementOptionallyContainedNrmClass"
>
  <complexType>
    <complexContent>
      <extension base="xn:NrmClass">
        <sequence>
          <element name="attributes" minOccurs="0">
            <complexType>
              <all>
                <element name="userLabel" minOccurs="0"/>
              </all>
            </complexType>
          </element>
          <choice minOccurs="0" maxOccurs="unbounded">
            <element ref="xn:VsDataContainer"/>
          </choice>
        </sequence>
      </extension>
    </complexContent>
  </complexType>
</element>

<element
  name="SgwFunction"
  substitutionGroup="xn:ManagedElementOptionallyContainedNrmClass"
>
  <complexType>
    <complexContent>
      <extension base="xn:NrmClass">
        <sequence>
          <element name="attributes" minOccurs="0">
            <complexType>
              <all>
                <element name="userLabel" minOccurs="0"/>
              </all>
            </complexType>
          </element>
          <choice minOccurs="0" maxOccurs="unbounded">
            <element ref="xn:VsDataContainer"/>
          </choice>
        </sequence>
      </extension>
    </complexContent>
  </complexType>
</element>

<element
  name="SsfFunction"
  substitutionGroup="xn:ManagedElementOptionallyContainedNrmClass"
>
  <complexType>
    <complexContent>
      <extension base="xn:NrmClass">
        <sequence>
          <element name="attributes" minOccurs="0">

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        <complexType>
          <all>
            <element name="userLabel" minOccurs="0" />
          </all>
        </complexType>
      </element>
    <choice minOccurs="0" maxOccurs="unbounded">
      <element ref="xn:VsDataContainer" />
    </choice>
  </sequence>
</extension>
</complexContent>
</complexType>
</element>

<element
  name="BsFunction"
  substitutionGroup="xn:ManagedElementOptionallyContainedNrmClass"
>
  <complexType>
    <complexContent>
      <extension base="xn:NrmClass">
        <sequence>
          <element name="attributes" minOccurs="0">
            <complexType>
              <all>
                <element name="userLabel" minOccurs="0" />
              </all>
            </complexType>
          </element>
          <choice minOccurs="0" maxOccurs="unbounded">
            <element ref="xn:VsDataContainer" />
          </choice>
        </sequence>
      </extension>
    </complexContent>
  </complexType>
</element>

<element
  name="CsMgwFunction"
  substitutionGroup="xn:ManagedElementOptionallyContainedNrmClass"
>
  <complexType>
    <complexContent>
      <extension base="xn:NrmClass">
        <sequence>
          <element name="attributes" minOccurs="0">
            <complexType>
              <all>
                <element name="userLabel" minOccurs="0" />
                <element name="csMgwFunctionMscServerFunction" minOccurs="0" />
                <element name="csMgwFunctionIucsLink" minOccurs="0" />
                <element name="csMgwFunctionALink" minOccurs="0" />
              </all>
            </complexType>
          </element>
          <choice minOccurs="0" maxOccurs="unbounded">
            <element ref="xn:VsDataContainer" />
          </choice>
        </sequence>
      </extension>
    </complexContent>
  </complexType>
</element>

<element
  name="ScscfFunction"
  substitutionGroup="xn:ManagedElementOptionallyContainedNrmClass"
>
  <complexType>
    <complexContent>
      <extension base="xn:NrmClass">
        <sequence>
          <element name="attributes" minOccurs="0">

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```

        <complexType>
          <all>
            <element name="userLabel" minOccurs="0" />
          </all>
        </complexType>
      </element>
    <choice minOccurs="0" maxOccurs="unbounded">
      <element ref="xn:VsDataContainer" />
    </choice>
  </sequence>
</extension>
</complexContent>
</complexType>
</element>

<element
  name="PscsfFunction"
  substitutionGroup="xn:ManagedElementOptionallyContainedNrmClass"
>
  <complexType>
    <complexContent>
      <extension base="xn:NrmClass">
        <sequence>
          <element name="attributes" minOccurs="0">
            <complexType>
              <all>
                <element name="userLabel" minOccurs="0" />
              </all>
            </complexType>
          </element>
          <choice minOccurs="0" maxOccurs="unbounded">
            <element ref="xn:VsDataContainer" />
          </choice>
        </sequence>
      </extension>
    </complexContent>
  </complexType>
</element>

<element
  name="IcscfFunction"
  substitutionGroup="xn:ManagedElementOptionallyContainedNrmClass"
>
  <complexType>
    <complexContent>
      <extension base="xn:NrmClass">
        <sequence>
          <element name="attributes" minOccurs="0">
            <complexType>
              <all>
                <element name="userLabel" minOccurs="0" />
              </all>
            </complexType>
          </element>
          <choice minOccurs="0" maxOccurs="unbounded">
            <element ref="xn:VsDataContainer" />
          </choice>
        </sequence>
      </extension>
    </complexContent>
  </complexType>
</element>

<element
  name="SlfFunction"
  substitutionGroup="xn:ManagedElementOptionallyContainedNrmClass"
>
  <complexType>
    <complexContent>
      <extension base="xn:NrmClass">
        <sequence>
          <element name="attributes" minOccurs="0">
            <complexType>
              <all>
                <element name="userLabel" minOccurs="0" />
              </all>
            </complexType>
          </element>
        </sequence>
      </extension>
    </complexContent>
  </complexType>
</element>

```

```

        <choice minOccurs="0" maxOccurs="unbounded">
            <element ref="xn:VsDataContainer" />
        </choice>
    </sequence>
</extension>
</complexType>
</element>

<element
    name="BgcfFunction"
    substitutionGroup="xn:ManagedElementOptionallyContainedNrmClass"
>
    <complexType>
        <complexContent>
            <extension base="xn:NrmClass">
                <sequence>
                    <element name="attributes" minOccurs="0">
                        <complexType>
                            <all>
                                <element name="userLabel" minOccurs="0" />
                            </all>
                        </complexType>
                    </element>
                    <choice minOccurs="0" maxOccurs="unbounded">
                        <element ref="xn:VsDataContainer" />
                    </choice>
                </sequence>
            </extension>
        </complexContent>
    </complexType>
</element>

<element
    name="MrfcFunction"
    substitutionGroup="xn:ManagedElementOptionallyContainedNrmClass"
>
    <complexType>
        <complexContent>
            <extension base="xn:NrmClass">
                <sequence>
                    <element name="attributes" minOccurs="0">
                        <complexType>
                            <all>
                                <element name="userLabel" minOccurs="0" />
                            </all>
                        </complexType>
                    </element>
                    <choice minOccurs="0" maxOccurs="unbounded">
                        <element ref="xn:VsDataContainer" />
                    </choice>
                </sequence>
            </extension>
        </complexContent>
    </complexType>
</element>

<element
    name="MrfpFunction"
    substitutionGroup="xn:ManagedElementOptionallyContainedNrmClass"
>
    <complexType>
        <complexContent>
            <extension base="xn:NrmClass">
                <sequence>
                    <element name="attributes" minOccurs="0">
                        <complexType>
                            <all>
                                <element name="userLabel" minOccurs="0" />
                            </all>
                        </complexType>
                    </element>
                    <choice minOccurs="0" maxOccurs="unbounded">
                        <element ref="xn:VsDataContainer" />
                    </choice>
                </sequence>
            </extension>
        </complexContent>
    </complexType>
</element>

```

```

    </complexType>
  </element>

  <element
    name="AsFunction"
    substitutionGroup="xn:ManagedElementOptionallyContainedNrmClass"
  >
    <complexType>
      <complexContent>
        <extension base="xn:NrmClass">
          <sequence>
            <element name="attributes" minOccurs="0">
              <complexType>
                <all>
                  <element name="userLabel" minOccurs="0"/>
                </all>
              </complexType>
            </element>
            <choice minOccurs="0" maxOccurs="unbounded">
              <element ref="xn:VsDataContainer"/>
            </choice>
          </sequence>
        </extension>
      </complexContent>
    </complexType>
  </element>

```

```

  <element
    name="MgcfFunction"
    substitutionGroup="xn:ManagedElementOptionallyContainedNrmClass"
  >
    <complexType>
      <complexContent>
        <extension base="xn:NrmClass">
          <sequence>
            <element name="attributes" minOccurs="0">
              <complexType>
                <all>
                  <element name="userLabel" minOccurs="0"/>
                </all>
              </complexType>
            </element>
            <choice minOccurs="0" maxOccurs="unbounded">
              <element ref="xn:VsDataContainer"/>
            </choice>
          </sequence>
        </extension>
      </complexContent>
    </complexType>
  </element>

```

```

<element name="Link_As_Auc" substitutionGroup="xn:SubNetworkOptionallyContainedNrmClass">
  <complexType>
    <complexContent>
      <extension base="xn:NrmClass">
        <sequence>
          <element name="attributes" minOccurs="0">
            <complexType>
              <all>
                <element name="aEnd" type="xn:DN" minOccurs="0"/>
                <element name="linkType" type="xn:LinkTypeType" minOccurs="0"/>
                <element name="protocolName" type="string" minOccurs="0"/>
                <element name="protocolVersion" type="string" minOccurs="0"/>
                <element name="userLabel" type="string" minOccurs="0"/>
                <element name="zEnd" type="xn:DN" minOccurs="0"/>
              </all>
            </complexType>
          </element>
          <choice minOccurs="0" maxOccurs="unbounded">
            <element ref="xc:Link_As_AucOptionallyContainedNrmClass"/>
          </choice>
        </sequence>
      </extension>
    </complexContent>
  </complexType>
</element>

```

```
<element name="Link_As_Hlr" substitutionGroup="xn:SubNetworkOptionallyContainedNrmClass">
  <complexType>
    <complexContent>
      <extension base="xn:NrmClass">
        <sequence>
          <element name="attributes" minOccurs="0">
            <complexType>
              <all>
                <element name="aEnd" type="xn:DN" minOccurs="0"/>
                <element name="linkType" type="xn:LinkTypeType" minOccurs="0"/>
                <element name="protocolName" type="string" minOccurs="0"/>
                <element name="protocolVersion" type="string" minOccurs="0"/>
                <element name="userLabel" type="string" minOccurs="0"/>
                <element name="zEnd" type="xn:DN" minOccurs="0"/>
              </all>
            </complexType>
          </element>
          <choice minOccurs="0" maxOccurs="unbounded">
            <element ref="xc:Link_As_HlrOptionallyContainedNrmClass"/>
          </choice>
        </sequence>
      </extension>
    </complexContent>
  </complexType>
</element>
```

```
<element name="Link_As_Scscf" substitutionGroup="xn:SubNetworkOptionallyContainedNrmClass">
  <complexType>
    <complexContent>
      <extension base="xn:NrmClass">
        <sequence>
          <element name="attributes" minOccurs="0">
            <complexType>
              <all>
                <element name="aEnd" type="xn:DN" minOccurs="0"/>
                <element name="linkType" type="xn:LinkTypeType" minOccurs="0"/>
                <element name="protocolName" type="string" minOccurs="0"/>
                <element name="protocolVersion" type="string" minOccurs="0"/>
                <element name="userLabel" type="string" minOccurs="0"/>
                <element name="zEnd" type="xn:DN" minOccurs="0"/>
              </all>
            </complexType>
          </element>
          <choice minOccurs="0" maxOccurs="unbounded">
            <element ref="xc:Link_As_ScscfOptionallyContainedNrmClass"/>
          </choice>
        </sequence>
      </extension>
    </complexContent>
  </complexType>
</element>
```

```
<element name="Link_As_Slf" substitutionGroup="xn:SubNetworkOptionallyContainedNrmClass">
  <complexType>
    <complexContent>
      <extension base="xn:NrmClass">
        <sequence>
          <element name="attributes" minOccurs="0">
            <complexType>
              <all>
                <element name="aEnd" type="xn:DN" minOccurs="0"/>
                <element name="linkType" type="xn:LinkTypeType" minOccurs="0"/>
                <element name="protocolName" type="string" minOccurs="0"/>
                <element name="protocolVersion" type="string" minOccurs="0"/>
                <element name="userLabel" type="string" minOccurs="0"/>
                <element name="zEnd" type="xn:DN" minOccurs="0"/>
              </all>
            </complexType>
          </element>
          <choice minOccurs="0" maxOccurs="unbounded">
            <element ref="xc:Link_As_SlfOptionallyContainedNrmClass"/>
          </choice>
        </sequence>
      </extension>
    </complexContent>
  </complexType>
</element>
```



```

<element name="Link_Bgcf_Bgcf" substitutionGroup="xn:SubNetworkOptionallyContainedNrmClass">
  <complexType>
    <complexContent>
      <extension base="xn:NrmClass">
        <sequence>
          <element name="attributes" minOccurs="0">
            <complexType>
              <all>
                <element name="aEnd" type="xn:DN" minOccurs="0"/>
                <element name="linkType" type="xn:LinkTypeType" minOccurs="0"/>
                <element name="protocolName" type="string" minOccurs="0"/>
                <element name="protocolVersion" type="string" minOccurs="0"/>
                <element name="userLabel" type="string" minOccurs="0"/>
                <element name="zEnd" type="xn:DN" minOccurs="0"/>
              </all>
            </complexType>
          </element>
          <choice minOccurs="0" maxOccurs="unbounded">
            <element ref="xc:Link_Bgcf_BgcfOptionallyContainedNrmClass"/>
          </choice>
        </sequence>
      </extension>
    </complexContent>
  </complexType>
</element>
<element name="Link_Bgcf_ImsMgw" substitutionGroup="xn:SubNetworkOptionallyContainedNrmClass">
  <complexType>
    <complexContent>
      <extension base="xn:NrmClass">
        <sequence>
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            <complexType>
              <all>
                <element name="aEnd" type="xn:DN" minOccurs="0"/>
                <element name="linkType" type="xn:LinkTypeType" minOccurs="0"/>
                <element name="protocolName" type="string" minOccurs="0"/>
                <element name="protocolVersion" type="string" minOccurs="0"/>
                <element name="userLabel" type="string" minOccurs="0"/>
                <element name="zEnd" type="xn:DN" minOccurs="0"/>
              </all>
            </complexType>
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          <choice minOccurs="0" maxOccurs="unbounded">
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          </choice>
        </sequence>
      </extension>
    </complexContent>
  </complexType>
</element>
<element name="Link_Bgcf_Scscf" substitutionGroup="xn:SubNetworkOptionallyContainedNrmClass">
  <complexType>
    <complexContent>
      <extension base="xn:NrmClass">
        <sequence>
          <element name="attributes" minOccurs="0">
            <complexType>
              <all>
                <element name="aEnd" type="xn:DN" minOccurs="0"/>
                <element name="linkType" type="xn:LinkTypeType" minOccurs="0"/>
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                <element name="protocolVersion" type="string" minOccurs="0"/>
                <element name="userLabel" type="string" minOccurs="0"/>
                <element name="zEnd" type="xn:DN" minOccurs="0"/>
              </all>
            </complexType>
          </element>
          <choice minOccurs="0" maxOccurs="unbounded">
            <element ref="xc:Link_Bgcf_ScscfOptionallyContainedNrmClass"/>
          </choice>
        </sequence>
      </extension>
    </complexContent>
  </complexType>
</element>

```

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<element name="Link_Hlr_Scscf" substitutionGroup="xn:SubNetworkOptionallyContainedNrmClass">
  <complexType>
    <complexContent>
      <extension base="xn:NrmClass">
        <sequence>
          <element name="attributes" minOccurs="0">
            <complexType>
              <all>
                <element name="aEnd" type="xn:DN" minOccurs="0"/>
                <element name="linkType" type="xn:LinkTypeType" minOccurs="0"/>
                <element name="protocolName" type="string" minOccurs="0"/>
                <element name="protocolVersion" type="string" minOccurs="0"/>
                <element name="userLabel" type="string" minOccurs="0"/>
                <element name="zEnd" type="xn:DN" minOccurs="0"/>
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            </complexType>
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          <choice minOccurs="0" maxOccurs="unbounded">
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          </choice>
        </sequence>
      </extension>
    </complexContent>
  </complexType>
</element>
```

```
<element name="Link_Icscf_Slf" substitutionGroup="xn:SubNetworkOptionallyContainedNrmClass">
  <complexType>
    <complexContent>
      <extension base="xn:NrmClass">
        <sequence>
          <element name="attributes" minOccurs="0">
            <complexType>
              <all>
                <element name="aEnd" type="xn:DN" minOccurs="0"/>
                <element name="linkType" type="xn:LinkTypeType" minOccurs="0"/>
                <element name="protocolName" type="string" minOccurs="0"/>
                <element name="protocolVersion" type="string" minOccurs="0"/>
                <element name="userLabel" type="string" minOccurs="0"/>
                <element name="zEnd" type="xn:DN" minOccurs="0"/>
              </all>
            </complexType>
          </element>
          <choice minOccurs="0" maxOccurs="unbounded">
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          </choice>
        </sequence>
      </extension>
    </complexContent>
  </complexType>
</element>
```

```
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  <complexType>
    <complexContent>
      <extension base="xn:NrmClass">
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            <complexType>
              <all>
                <element name="aEnd" type="xn:DN" minOccurs="0"/>
                <element name="linkType" type="xn:LinkTypeType" minOccurs="0"/>
                <element name="protocolName" type="string" minOccurs="0"/>
                <element name="protocolVersion" type="string" minOccurs="0"/>
                <element name="userLabel" type="string" minOccurs="0"/>
                <element name="zEnd" type="xn:DN" minOccurs="0"/>
              </all>
            </complexType>
          </element>
          <choice minOccurs="0" maxOccurs="unbounded">
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          </choice>
        </sequence>
      </extension>
    </complexContent>
  </complexType>
</element>
```

```
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  <complexType>
    <complexContent>
      <extension base="xn:NrmClass">
        <sequence>
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            <complexType>
              <all>
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                <element name="linkType" type="xn:LinkTypeType" minOccurs="0"/>
                <element name="protocolName" type="string" minOccurs="0"/>
                <element name="protocolVersion" type="string" minOccurs="0"/>
                <element name="userLabel" type="string" minOccurs="0"/>
                <element name="zEnd" type="xn:DN" minOccurs="0"/>
              </all>
            </complexType>
          </element>
          <choice minOccurs="0" maxOccurs="unbounded">
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          </choice>
        </sequence>
      </extension>
    </complexContent>
  </complexType>
</element>
```

```
<element name="Link_Mrfc_Mrfp" substitutionGroup="xn:SubNetworkOptionallyContainedNrmClass">
  <complexType>
    <complexContent>
      <extension base="xn:NrmClass">
        <sequence>
          <element name="attributes" minOccurs="0">
            <complexType>
              <all>
                <element name="aEnd" type="xn:DN" minOccurs="0"/>
                <element name="linkType" type="xn:LinkTypeType" minOccurs="0"/>
                <element name="protocolName" type="string" minOccurs="0"/>
                <element name="protocolVersion" type="string" minOccurs="0"/>
                <element name="userLabel" type="string" minOccurs="0"/>
                <element name="zEnd" type="xn:DN" minOccurs="0"/>
              </all>
            </complexType>
          </element>
          <choice minOccurs="0" maxOccurs="unbounded">
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          </choice>
        </sequence>
      </extension>
    </complexContent>
  </complexType>
</element>
```

```
<element name="Link_Mrfc_Scscf" substitutionGroup="xn:SubNetworkOptionallyContainedNrmClass">
  <complexType>
    <complexContent>
      <extension base="xn:NrmClass">
        <sequence>
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              <all>
                <element name="aEnd" type="xn:DN" minOccurs="0"/>
                <element name="linkType" type="xn:LinkTypeType" minOccurs="0"/>
                <element name="protocolName" type="string" minOccurs="0"/>
                <element name="protocolVersion" type="string" minOccurs="0"/>
                <element name="userLabel" type="string" minOccurs="0"/>
                <element name="zEnd" type="xn:DN" minOccurs="0"/>
              </all>
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          </element>
          <choice minOccurs="0" maxOccurs="unbounded">
            <element ref="xc:Link_Mrfc_ScscfOptionallyContainedNrmClass"/>
          </choice>
        </sequence>
      </extension>
    </complexContent>
  </complexType>
</element>
```

