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Network Resource Model (NRM)
Integration Reference Point (IRP);
Solution Set (SS) definitions
(3GPP TS 28.656 version 14.0.0 Release 14)





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Contents

Intelle	lectual Property Rights	2
Forew	word	2
Moda	al verbs terminology	2
	word	
	duction	
	Scope	
1	•	
2	References	
3	Definitions and abbreviations	
3.1	Definitions	
3.2	Abbreviations	
4	Solution Set Definitions	
Anne	ex A (normative): CORBA Solution Set	8
A.0	General	8
A.1	Architectural features	8
A.1.1		
A.1.2	Rules for NRM extensions	8
A.2	Mapping	9
A.2.1		
A.2.2	11 0	
A.2.2.		
A.2.2.		
A.2.2.	.3 IOC GSMCell	10
A.2.2.	.4 IOC GSMRelation	10
A.2.2.:	.5 IOC ExternalGSMCell	10
A.2.2.	.6 IOC ExternalBSSFunction	11
A.3	Solution Set definitions	12
A.3.1	IDL definition structure	12
A.3.2	IDL specification "GeranNetworkResourcesNRMDefs.idl"	12
Anne	ex B (normative): XML Definitions	14
B.0	General	14
D 1	A 1. 14 16 16 16 1	1 4
B.1	Architectural features	
B.1.0 B.1.1		
	•	
B.2	Mapping	
B.2.1	11 0	
B.2.2	Information Object Class (IOC) mapping	14
B.3	Solution Set definitions	15
B.3.1	XML definition structure	15
B.3.2		
B.3.3	XML schema "geranNrm.xsd"	16
Anne	ex C (informative): Change history	20
Histor		21

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Introduction

The present document is part of a TS-family covering the 3rd Generation Partnership Project; Technical Specification Group Services and System Aspects; Telecommunication management; as identified below:

- 28.654: GSM/EDGE Radio Access Network (GERAN) Network Resource Model (NRM) Integration Reference Point (IRP); Requirements.
- 28.655: GSM/EDGE Radio Access Network (GERAN) Network Resource Model (NRM) Integration Reference Point (IRP); Information Service (IS).
- 28.656: GSM/EDGE Radio Access Network (GERAN) Network Resource Model (NRM) Integration Reference Point (IRP); Solution Set (SS) definitions.

1 Scope

[9]

[10]

[11]

Void

The present document is part of an Integration Reference Point (IRP) named GERAN Network Resource Model (NRM) IRP, through which an IRPAgent can communicate configuration management information to one or several IRPManagers concerning GERAN resources. The GERAN NRM IRP comprises a set of specifications defining Requirements, a protocol neutral Information Service and one or more Solution Set definitions.

The present document specifies the Solution Set definitions for the GERAN NRM IRP.

This Solution Set specification is related to 3GPP TS 28.655 V13.1.X.

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.
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 [1] 3GPP TS 32.101: "Telecommunication management; Principles and high level requirements". [2] 3GPP TS 32.102: "Telecommunication management; Architecture". [3] 3GPP TS 32.600: "Telecommunication management; Configuration Management (CM); Concept and high-level requirements". [4] 3GPP TS 28.655: "Telecommunication management; GERAN Network Resource Model (NRM) Integration Reference Point (IRP); Information Service (IS)". [5] 3GPP TS 32.300: "Telecommunication management; Configuration Management (CM); Name convention for Managed Objects". [6] 3GPP TS 28.623: "Telecommunication management; Generic Network Resource Model (NRM) Integration Reference Point (IRP); Solution Set (SS) definitions". [7] 3GPP TS 32.616: "Telecommunication management; Configuration Management (CM); Bulk CM Integration Reference Point (IRP); Solution Set (SS) definitions". [8] W3C REC-xml11-20060816: "Extensible Markup Language (XML) 1.1 (Second Edition)". 		ne present document.
[3] 3GPP TS 32.600: "Telecommunication management; Configuration Management (CM); Concept and high-level requirements". [4] 3GPP TS 28.655: "Telecommunication management; GERAN Network Resource Model (NRM) Integration Reference Point (IRP); Information Service (IS)". [5] 3GPP TS 32.300: "Telecommunication management; Configuration Management (CM); Name convention for Managed Objects". [6] 3GPP TS 28.623: "Telecommunication management; Generic Network Resource Model (NRM) Integration Reference Point (IRP); Solution Set (SS) definitions". [7] 3GPP TS 32.616: "Telecommunication management; Configuration Management (CM); Bulk CM Integration Reference Point (IRP); Solution Set (SS) definitions".	[1]	3GPP TS 32.101: "Telecommunication management; Principles and high level requirements".
and high-level requirements". [4] 3GPP TS 28.655: "Telecommunication management; GERAN Network Resource Model (NRM) Integration Reference Point (IRP); Information Service (IS)". [5] 3GPP TS 32.300: "Telecommunication management; Configuration Management (CM); Name convention for Managed Objects". [6] 3GPP TS 28.623: "Telecommunication management; Generic Network Resource Model (NRM) Integration Reference Point (IRP); Solution Set (SS) definitions". [7] 3GPP TS 32.616: "Telecommunication management; Configuration Management (CM); Bulk CM Integration Reference Point (IRP); Solution Set (SS) definitions".	[2]	3GPP TS 32.102: "Telecommunication management; Architecture".
Integration Reference Point (IRP); Information Service (IS)". 3GPP TS 32.300: "Telecommunication management; Configuration Management (CM); Name convention for Managed Objects". 3GPP TS 28.623: "Telecommunication management; Generic Network Resource Model (NRM) Integration Reference Point (IRP); Solution Set (SS) definitions". 3GPP TS 32.616: "Telecommunication management; Configuration Management (CM); Bulk CM Integration Reference Point (IRP); Solution Set (SS) definitions".	[3]	
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Integration Reference Point (IRP); Solution Set (SS) definitions".	[6]	
[8] W3C REC-xml11-20060816: "Extensible Markup Language (XML) 1.1 (Second Edition)".	[7]	
	[8]	W3C REC-xml11-20060816: "Extensible Markup Language (XML) 1.1 (Second Edition)".

W3C XML Schema Definition Language (XSD) 1.1 Part 1: Structures.

W3C XML Schema Definition Language (XSD) 1.1 Part 2: Datatypes.

3 Definitions and abbreviations

3.1 Definitions

For terms and definitions please refer to 3GPP TS 32.101 [1], 3GPP TS 32.102 [2], 3GPP TS 32.600 [3] and 3GPP TS 28.655 [4].

XML file: See definition of [6].

XML document: See definition of [6].

XML declaration: See definition of [6].

XML element: See definition of [6].

empty XML See definition of [6].

XML content (of an XML element): See definition of [6].

XML start-tag: See definition of [6].

XML end-tag: See definition of [6].

XML empty-element tag: See definition of [6].

XML attribute specification: See definition of [6].

DTD: See definition of [6].

XML schema: See definition of [6].

XML namespace: See definition of [6].

XML complex type: See definition of [6].

XML element type: See definition of [6].

3.2 Abbreviations

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

CM Configuration Management

CORBA Common Object Request Broker Architecture

DN Distinguished Name
DTD Document Type Definition
EDGE Enhanced Data for GSM Evolution
GERAN GSM/EDGE Radio Access Network
GSM Global System for Mobile communication

IS Information Service

IDL Interface Definition Language (OMG)

IOC Information Object Class
IRP Integration Reference Point
IS Information Service
MO Managed Object

MO Managed Object
MOC Managed Object Class
NRM Network Resource Model
OMG Object Management Group

SS Solution Set

UMTS Universal Mobile Telecommunications System UTRAN Universal Terrestrial Radio Access Network

XML eXtensible Markup Language

4 Solution Set Definitions

This specification defines the following 3GPP GERAN NRM IRP Solution Set Definitions:

- 3GPP GERAN NRM IRP CORBA SS (Annex A)
- 3GPP GERAN NRM IRP XML Definitions (Annex B)

Annex A (normative): CORBA Solution Set

A.0 General

This annex contains the CORBA Solution Set for the IRP whose semantics is specified in GERAN NRM IRP: Information Service (TS 28.655 [4]).

A.1 Architectural features

The overall architectural feature of GERAN NRM IRP is specified in 3GPP TS 28.655 [4]. This clause specifies features that are specific to the CORBA SS.

A.1.1 Syntax for Distinguished Names

See clause A.1.1 of [5].

A.1.2 Rules for NRM extensions

See clause A.1.2 of [5].

A.2 Mapping

A.2.1 General mapping

See clause A.2.1 of [5].

A.2.2 Information Object Class (IOC) mapping

A.2.2.1 IOC BSSFunction

Mapping from NRM IOC BSSFunction attributes to SS equivalent MOC BssFunction attributes

IS Attributes	SS Attributes	SS Type
id	bssFunctionId	string
userLabel	userLabel	string

A.2.2.2 IOC BTSSiteMgr

Mapping from NRM IOC BTSSiteMgr attributes to SS equivalent MOC BtsSiteMgr attributes

IS Attributes	SS Attributes	SS Type
id	btsSiteMgrld	string
userLabel	userLabel	string
latitude	latitude	long
longitude	longitude	long
operationalState	operationalState	StateManagementIRPOptConstDefs::Ope rationalStateTypeOpt

A.2.2.3 IOC GSMCell

Mapping from NRM IOC GSMCell attributes to SS equivalent MOC GsmCell attributes

IS Attributes	SS Attributes	SS Type
id	gsmCellId	string
userLabel	userLabel	string
cellIdentity	cellIdentity	long
cellAllocation	cellAllocation	GenericNetworkResourcesIRPSystem::Attrib
		utesTypes::LongSet
ncc	ncc	long
bcc	bcc	long
lac	lac	long
mcc	mcc	long
mnc	mnc	long
rac	rac	long
racc	racc	long
tsc	tsc	long
rxLevAccessMin	rxLevAccessMin	long
msTxPwrMaxCCH	msTxPwrMaxCCH	long
rfHoppingEnabled	rfHoppingEnabled	boolean
hoppingSequenceList	hoppingSequenceList	GeranNRMAttributeTypes::
		HoppingSequenceListType
plmnPermitted	plmnPermitted	long

A.2.2.4 IOC GSMRelation

Mapping from NRM IOC GSMRelation attributes to SS equivalent MOC GsmRelation attributes

IS Attributes	SS Attributes	SS Type
id	gsmRelationId	string
adjacentCell	adjacentCell	string
bcchFrequency	bcchFrequency	long
ncc	ncc	long
bcc	bcc	long
lac	lac	long
isHOAllowed	isHOAllowed	boolean
isRemoveAllowed	isRemoveAllowed	boolean
isESCoveredBy	isESCoveredBy	GeranNRMAttributeTypes::IsEsCoveredByE numType

A.2.2.5 IOC ExternalGSMCell

Mapping from NRM IOC ExternalGSMCell attributes to SS equivalent MOC ExternalGsmCell attributes

IS Attributes	SS Attributes	SS Type
id	externalGsmCellId	string
userLabel	userLabel	string
cellIdentity	cellIdentity	long
bcchFrequency	bcchFrequency	long
ncc	ncc	long
bcc	bcc	long
Lac	lac	long
mcc	mcc	long
mnc	mnc	long
rac	rac	long
racc	racc	long

A.2.2.6 IOC ExternalBSSFunction

Mapping from NRM IOC ExternalBSSFunction attributes to SS equivalent MOC ExternalBssFunction attributes

IS Attributes	SS Attributes	SS Type
id	externalBssFunctionId	string
userLabel	userLabel	string

A.3 Solution Set definitions

A.3.1 IDL definition structure

Clause A.3.2 defines the MO classes for the GERAN NRM IRP.

A.3.2 IDL specification "GeranNetworkResourcesNRMDefs.idl"

```
//File: GeranNetworkResourcesNRMDefs.idl
#ifndef GeranNetworkResourcesNRMDefs_idl
#define GeranNetworkResourcesNRMDefs_idl
#include "GenericNetworkResourcesNRMDefs.idl"
#pragma prefix "3gppsa5.org"
\ensuremath{^{\star}} This module defines constants for each MO class name and
 * the attribute names for each defined MO class.
module GeranNetworkResourcesNRMDefs
       * Definitions for MO class BssFunction
      interface BssFunction : GenericNetworkResourcesNRMDefs::ManagedFunction
         const string CLASS = "BssFunction";
         // Attribute Names
         const string bssFunctionId = "bssFunctionId";
};
       * Definitions for MO class BtsSiteMgr
       * /
      interface BtsSiteMgr : GenericNetworkResourcesNRMDefs::ManagedFunction
         const string CLASS = "BtsSiteMgr";
         // Attribute Names
         const string btsSiteMgrId = "btsSiteMgrId";
         const string latitude = "latitude";
         const string longitude = "longitude";
         const string operationalState = "operationalState";
};
       * Definitions for MO class GsmCell
      interface GsmCell : GenericNetworkResourcesNRMDefs::ManagedFunction
         const string CLASS = "GsmCell";
         // Attribute Names
         const string gsmCellId = "gsmCellId";
         const string cellIdentity = "cellIdentity";
         const string cellAllocation = "cellAllocation";
         const string ncc = "ncc";
         const string bcc = "bcc";
         const string lac = "lac";
         const string mcc = "mcc";
         const string mnc = "mnc";
         const string rac = "rac";
         const string racc = "racc";
         const string tsc = "tsc";
         const string rxLevAccessMin = "rxLevAccessMin";
         const string msTxPwrMaxCCH = "msTxPwrMaxCCH";
         const boolean rfHoppingEnabled = "rfHoppingEnabled";
         const string hoppingSequenceList = "hoppingSequenceList";
         const string plmnPermitted = "plmnPermitted";
};
       * Definitions for MO class GsmRelation
      interface GsmRelation :GenericNetworkResourcesNRMDefs::Top
```

```
const string CLASS = "GsmRelation";
         // Attribute Names
         //
         const string gsmRelationId = "gsmRelationId";
         const string adjacentCell = "adjacentCell";
         const string bcchFrequency = "bcchFrequency";
         const string ncc = "ncc";
         const string bcc = "bcc";
         const string lac = "lac";
         const string isHOAllowed = "isHOAllowed";
         const string isRemoveAllowed = "isRemoveAllowed";
const string isESCoveredBy = "isESCoveredBy";
};
       * Definitions for MO class ExternalGsmCell
      interface ExternalGsmCell : GenericNetworkResourcesNRMDefs::ManagedFunction
         const string CLASS = "ExternalGsmCell";
         // Attribute Names
         const string externalGsmCellId = "externalGsmCellId";
         const string cellIdentity = "cellIdentity";
         const string bcchFrequency = "bcchFrequency";
         const string ncc = "ncc";
         const string bcc = "bcc";
         const string lac = "lac";
         const string mcc = "mcc";
         const string mnc = "mnc";
         const string rac = "rac";
         const string racc = "racc";
};
       {}^{\star}{}^{\phantom{\dagger}} Definitions for MO class ExternalBssFunction
      interface ExternalBssFunction : GenericNetworkResourcesNRMDefs::ManagedFunction
         const string CLASS = "ExternalBssFunction";
         // Attribute Names
         const string externalBssFunctionId = "externalBssFunctionId";
};
};
module GeranNRMAttributeTypes
      enum isEsCoveredByEnumType
       no,
       partial,
       yes
      };
    typedef sequence<boolean> MAType;
    struct HoppingSequenceType
        MAType ma;
        short hsn;
    };
    typedef sequence<HoppingSequenceType> HoppingSequenceListType;
#endif
```

Annex B (normative): XML Definitions

B.0 General

This annex contains the XML Definitions for the GERAN NRM IRP as it applies to Itf-N, in accordance with GERAN NRM IRP IS definitions [4].

The XML file formats are based on XML [8], XML Schema [10] [11] and XML Namespace [12] standards.

B.1 Architectural features

B.1.0 General

The overall architectural feature of GERAN NRM IRP is specified in 3GPP TS 28.655 [4].

This clause specifies features that are specific to the Schema definitions.

B.1.1 Syntax for Distinguished Names

The syntax of a Distinguished Name is defined in 3GPP TS 32.300 [5].

B.2 Mapping

B.2.1 General mapping

An IOC maps to an XML element of the same name as the IOC's name in the IS. An IOC attribute maps to a sub-element of the corresponding IOC's XML element, and the name of this sub-element is the same as the attribute's name in the IS.

B.2.2 Information Object Class (IOC) mapping

The mapping is nNot present in the current version of this specification.

B.3 Solution Set definitions

B.3.1 XML definition structure

The overall description of the file format of configuration data XML files is provided by 3GPP TS 32.616 [7].

Annex B.3.3 of the present document defines the NRM-specific XML schema geranNrm.xsd for the GERAN Network Resources IRP NRM defined in 3GPP TS 32.652 [4].

XML schema geranNrm.xsd explicitly declares NRM-specific XML element types for the related NRM.

The definition of those NRM-specific XML element types complies with the generic mapping rules defined in 3GPP TS 32.616 [7].

B.3.2 Graphical Representation

The graphical representation is not present in the current version of this specification.

B.3.3 XML schema "geranNrm.xsd"

```
<?xml version="1.1" encoding="UTF-8"?>
<!--
 3GPP TS 28.656 GERAN NRM IRP
 Bulk CM Configuration data file NRM-specific XML schema
 geranNrm.xsd
<schema
 xmlns="http://www.w3.org/2001/XMLSchema"
 xmlns:xn="http://www.3gpp.org/ftp/specs/archive/28_series/28.623#genericNrm"
 xmlns:un="http://www.3gpp.org/ftp/specs/archive/28_series/28.653#utranNrm"
 xmlns:gn="http://www.3gpp.org/ftp/specs/archive/28_series/28.656#geranNrm"
 xmlns:sm="http://www.3gpp.org/ftp/specs/archive/28_series/28.626#stateManagementIRP"
 xmlns:en="http://www.3gpp.org/ftp/specs/archive/28_series/28.659#eutranNrm"
 xmlns:sp="http://www.3gpp.org/ftp/specs/archive/28_series/28.629#sonPolicyNrm"
 xmlns:gr="http://www.3gpp.org/ftp/specs/archive/28_series/28.663#genericRanNrm"
 targetNamespace="http://www.3gpp.org/ftp/specs/archive/28_series/28.656#geranNrm"
 elementFormDefault="qualified"
<import
   namespace=
"http://www.3gpp.org/ftp/specs/archive/28_series/28.623#genericNrm"
<import
   namespace=
"http://www.3gpp.org/ftp/specs/archive/28_series/28.653#utranNrm"
<import</pre>
   namespace=
"http://www.3gpp.org/ftp/specs/archive/28_series/28.626#stateManagementIRP"
<import
   namespace=
"http://www.3gpp.org/ftp/specs/archive/28_series/28.659#eutranNrm"
  />
<import
   namespace=
"http://www.3gpp.org/ftp/specs/archive/28_series/28.629#sonPolicyNrm"
 />
<import
   namespace=
"http://www.3gpp.org/ftp/specs/archive/28_series/28.663#genericRanNrm"
 />
  <simpleType name="isESCoveredByEnumType">
   <restriction base="string">
     <enumeration value="no"/>
      <enumeration value="partial"/>
      <enumeration value="yes"/>
    </restriction>
  </simpleType>
  <complexType name="MA">
   <sequence>
      <element name="rfSelected" type="boolean" minOccurs="0"/>
   </sequence>
  </complexType>
  <complexType name="HoppingSequence">
      <element name="ma" type="gn:MA" minOccurs="0"/>
      <element name="hsn" type="short" minOccurs="0"/>
   </sequence>
  </complexType>
  <complexType name="HoppingSequenceList">
   <sequence>
     <element name="hoppingSequence" type="gn:HoppingSequence" minOccurs="0"/>
   </sequence>
  </complexType>
  <!-- GERAN Network Resources IRP NRM class associated XML elements -->
  <element
```

```
name="BssFunction"
 substitutionGroup="xn:ManagedElementOptionallyContainedNrmClass"
  <complexType>
    <complexContent>
      <extension base="xn:NrmClass">
        <sequence>
          <element name="attributes" minOccurs="0">
            <complexType>
              <all>
                <element name="userLabel"/>
              </all>
            </complexType>
          </element>
          <choice minOccurs="0" maxOccurs="unbounded">
            <element ref="gn:BtsSiteMgr"/>
            <element ref="xn:VsDataContainer"/>
          </chaice>
        </sequence>
      </extension>
    </complexContent>
  </complexType>
</element>
<element name="BtsSiteMgr">
  <complexType>
    <complexContent>
      <extension base="xn:NrmClass">
        <sequence>
          <element name="attributes" minOccurs="0">
            <complexType>
              <all>
                <element name="userLabel"/>
                <element ref="gr:latitude" minOccurs="0"/>
                <element ref="gr:longitude" minOccurs="0"/>
                <element
                  name="operationalState"
                   type="sm:operationalStateType"
                   minOccurs="0"
                />
              </all>
            </complexType>
          </element>
          <choice minOccurs="0" maxOccurs="unbounded">
            <element ref="gn:GsmCell"/>
            <element ref="xn:VsDataContainer"/>
          </choice>
          <choice minOccurs="0" maxOccurs="1">
            <element ref="sp:InterRatEsPolicies"/>
          </choice>
        </sequence>
      </extension>
    </complexContent>
  </complexType>
</element>
<element name="GsmCell">
  <complexType>
    <complexContent>
      <extension base="xn:NrmClass">
        <sequence>
          <element name="attributes" minOccurs="0">
            <complexType>
              <all>
                <element name="userLabel"/>
                <element name="cellIdentity"/>
                <element name="cellAllocation"/>
                <element name="ncc"/>
                <element name="bcc"/>
                <element name="lac"/>
                <element name="mcc"/>
                <element name="mnc"/>
                <element name="rac" minOccurs="0"/>
                <element name="racc" minOccurs="0"/>
                <element name="tsc" minOccurs="0"/>
                <element name="rxLevAccessMin"/>
                <element name="msTxPwrMaxCCH"/>
```

```
<element name="rfHoppingEnabled"/>
                <element name="hoppingSequenceList"/>
                <element name="plmnPermitted"/>
              </all>
            </complexType>
          </element>
          <choice minOccurs="0" maxOccurs="unbounded">
            <element ref="gn:GsmRelation"/>
            <element ref="un:UtranRelation"/>
            <element ref="en:EUtranRelation"/>
            <element ref="xn:VsDataContainer"/>
            <element ref="gn:GsmCellOptionallyContainedNrmClass"/>
          </chaire>
          <choice minOccurs="0" maxOccurs="1">
            <element ref="sp:InterRatEsPolicies"/>
          </choice>
        </sequence>
      </extension>
    </complexContent>
  </complexType>
</element>
<element name="GsmRelation">
 <complexType>
    <complexContent>
      <extension base="xn:NrmClass">
        <sequence>
          <element name="attributes" minOccurs="0">
            <complexType>
              <all>
                <element name="adjacentCell"/>
                <element name="bcchFrequency" minOccurs="0"/>
                <element name="ncc" minOccurs="0"/>
<element name="bcc" minOccurs="0"/>
                <element name="lac" minOccurs="0"/>
                <element name="isRemoveAllowed" type="boolean" minOccurs="0"/>
                <element name="isHOAllowed" type="boolean" minOccurs="0"/>
                <element name="isESCoveredBy" type="gn:isESCoveredByEnumType" minOccurs="0"/>
              </all>
            </complexType>
          </element>
          <choice minOccurs="0" maxOccurs="unbounded">
            <element ref="xn:VsDataContainer"/>
          </choice>
        </sequence>
      </extension>
    </complexContent>
 </complexType>
</element>
<element
 name="ExternalGsmCell"
 substitutionGroup="xn:SubNetworkOptionallyContainedNrmClass"
 <complexType>
    <complexContent>
      <extension base="xn:NrmClass">
        <sequence>
          <element name="attributes" minOccurs="0">
            <complexType>
              <all>
                <element name="userLabel"/>
                <element name="cellIdentity"/>
                <element name="bcchFrequency"/>
                <element name="ncc"/>
                <element name="bcc"/>
                <element name="lac"/>
                <element name="mcc"/>
                <element name="mnc"/>
                <element name="rac" minOccurs="0"/>
                <element name="racc" minOccurs="0"/>
              </all>
            </complexType>
          </element>
          <choice minOccurs="0" maxOccurs="unbounded">
            <element ref="xn:VsDataContainer"/>
          </choice>
          <choice minOccurs="0" maxOccurs="1">
```

```
<element ref="sp:InterRatEsPolicies"/>
            </choice>
          </sequence>
        </extension>
      </complexContent>
    </complexType>
  </element>
  <element
   name="ExternalBssFunction"
   substitutionGroup="xn:SubNetworkOptionallyContainedNrmClass"
    <complexType>
      <complexContent>
        <extension base="xn:NrmClass">
          <sequence>
            <element name="attributes" minOccurs="0">
              <complexType>
                <all>
                  <element name="userLabel"/>
                </all>
              </complexType>
            </element>
            <choice minOccurs="0" maxOccurs="unbounded">
              <element ref="gn:ExternalGsmCell"/>
<element ref="xn:VsDataContainer"/>
            </choice>
          </sequence>
        </extension>
      </complexContent>
    </complexType>
<element name="GsmCellOptionallyContainedNrmClass" type="xn:NrmClass" abstract="true"/>
</schema>
```

Annex C (informative): Change history

	Change history										
Date	TSG#	TSG Doc.	CR	Rev	Subject/Comment	Subject/Comment Cat					
2014-06	SA#64	SP-140332	001	-	upgrade XSD	F	11.0.0	11.1.0			
		SP-140332	002	1	Use the latest version of 32.656 as base	F					
		SP-140359	003	-	remove the feature support statements	F					
2014-09	SA#65	SP-140560	005	-	odate the link from Solution Set to Information Service due to the C 11.1. and of Release 12						
2016-01	SA#70				pgrade to Rel-13(MCC) 12.0.0 13			13.0.0			
2016-03	SA#71	SP-160031	800	-	ake the XML schema well formed A 13.0.0 1			13.1.0			

Change history							
Date	Meeting	TDoc	CR	Rev	Cat	Subject/Comment	New version
2016-06	SA#72	SP-160408	0011	1	Α	Correct the definition of hoppingSequenceList - Align with 28.655	13.2.0
2016-06	SA#72	SP-160407	0012	-	F	Update the link from IRP Solution Set to IRP Information Service	13.2.0
2016-06	SA#72	SP-160408	0015	-	Α	Namespace reference for the XML attributes "latitude" and "longitude" is missing	13.2.0
2016-09	SA#73	SP-160620	0016	-	F	Correct the link from IRP Solution Set to IRP Information Service	13.3.0
2017-03	SA#75	-	-	-	Ī	Promotion to Release 14 without technical change	14.0.0

History

	Document history							
V14.0.0 April 2017 Publication								