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Integration Reference Point (IRP);
Information Service (IS)
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#### Introduction

The present document is part of a TS-family covering the 3<sup>rd</sup> 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

The present document specifies the GERAN Network Resource Model (NRM) that can be communicated between an IRPAgent and IRPManagers for telecommunication network management purposes, including management of converged networks.

This document specifies the semantics and behaviour of class attributes and relations visible across the reference point in a protocol and technology neutral way. It does not define their syntax and encoding.

## 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]	$3 GPP\ TS\ 24.008: "Mobile\ radio\ interface\ Layer\ 3\ specification;\ Core\ network\ protocols;\ Stage\ 3".$
[4]	3GPP TS 44.018: "Mobile radio interface layer 3 specification; Radio Resource Control (RRC) protocol".
[5]	3GPP TS 45.008: "Radio subsystem link control".
[6]	3GPP TS 45.002: "Multiplexing and multiple access on the radio path".
[7]	3GPP TS 23.002: "Network architecture".
[8]	3GPP TS 23.003: "Numbering, Addressing and Identification".
[9]	3GPP TS 28.652: "Telecommunication management; Configuration Management (CM); UTRAN Network Resource Model (NRM) Integration Reference Point (IRP); Information Service (IS)".
[10]	3GPP TS 28.658: "Telecommunication management; Evolved Universal Terrestrial Radio Access Network (E-UTRAN) Network Resource Model (NRM) Integration Reference Point (IRP); Information Service (IS)".
[11]	3GPP TS 32.111-2: "Telecommunication management; Fault Management (FM); Part 2: Alarm Integration Reference Point (IRP): Information Service (IS)".
[12]	3GPP TS 28.662: "Telecommunication management; Generic Radio Access Network (RAN) Network Resource Model (NRM) Integration Reference Point (IRP); Information Service (IS) ".
[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 32.302: "Telecommunication management; Configuration Management (CM);

Notification Integration Reference Point (IRP): Information Service (IS)".

[16]	3GPP TS 28.622: "Telecommunication management; Generic Network Resource Model (NRM) Integration Reference Point (IRP): Information Service (IS)".
[17]	3GPP TS 32.662: "Telecommunication management; Configuration Management (CM); Kernel CM; Information service (IS)".
[18]	3GPP TS 28.625: "Telecommunication Management; State Management Data Definition Integration Reference Point (IRP): Information Service (IS)".

### 3 Definitions and abbreviations

#### 3.1 Definitions

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

**Association**: See definition in TS 28.622 [16].

Managed Element (ME): See definition in TS 28.622 [16].

Network Resource Model (NRM): See definition in TS 28.622 [16].

#### 3.2 Abbreviations

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

DN Distinguished Name (see 3GPP TS 32.300 [13])

EM Element Manager

GERAN GSM-EDGE Radio Access Network
GPRS General Packet Radio System
IOC Information Object Class
IRP Integration Reference Point

ME Managed Element
NE Network Element
NR Neighbour cell Relation
NRM Network Resource Model

RDN Relative Distinguished Name (see 3GPP TS 32.300 [13])

RNC Radio Network Controller
UML Unified Modelling Language

## 4 Model

## 4.1 Imported information entities and local labels

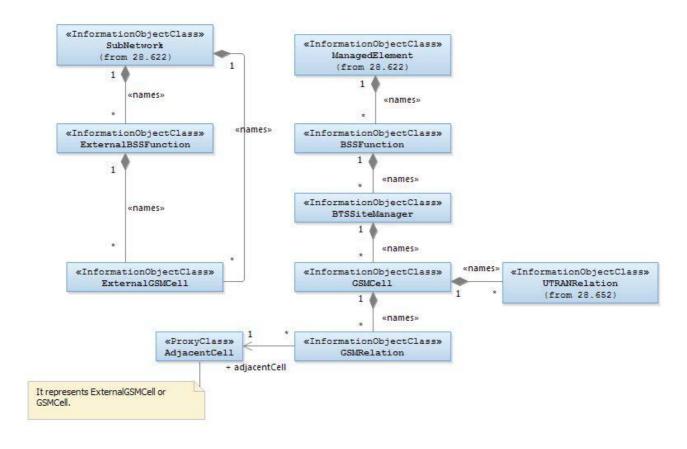
Label reference	Local label
3GPP TS 28.622 [16], information object class, ManagedElement	ManagedElement
3GPP TS 28.622 [16], information object class, ManagedFunction	ManagedFunction
3GPP TS 28.622 [16], information object class, SubNetwork	SubNetwork
3GPP TS 28.622 [16], information object class, Top	Тор
3GPP TS 28.622 [16], information object class, VsDataContainer	VsDataContainer
3GPP TS 28.652 [9], information object class, UTRANRelation	UTRANRelation
3GPP TS 28.658 [10], information object class, EUTRANRelation	EUTRANRelation
3GPP TS 28.625 [18], attribute, operationalState	operationalState

#### 4.2 Class diagram

#### 4.2.1 Relationships

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

The figures below show the containment/naming hierarchy and the associations of the GERAN NRM.

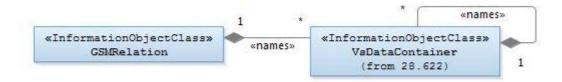


- NOTE 1: The listed cardinality numbers represent transient as well as steady-state numbers, and reflect all managed object creation and deletion scenarios.
- NOTE 2: The ExternalBSSFunction is used in the Core Network NRM.

Figure 4.2.1-1: GERAN NRM Containment/Naming and Association diagram

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 an IOC representing a cell could have a format like:

 $\label{eq:subNetwork} \begin{subNetwork}{l} \tt Sweden, \tt MeContext=MEC-Gbg-1, \tt ManagedElement=RNC-Gbg-1, \tt BSSFunction=BSS1. \end{subNetwork} \begin{subNetwork}{l} \tt Sweden, \tt MeContext=MEC-Gbg-1, \tt ManagedElement=RNC-Gbg-1, \tt ManagedElement=RNC-Gbg-1, \tt Mecontext=RNC-Gbg-1, \tt Mecontext=RNC-Gbg-$ 



- NOTE 1: The listed cardinality numbers represent transient as well as steady-state numbers, and reflect all managed object creation and deletion scenarios.
- NOTE 2: Each instance of the VsDataContainer shall only be contained under one IOC. The VsDataContainer can be contained under IOCs defined in other NRMs.

Figure 4.2.1-2: GERAN NRM Containment/Naming and Association diagram

The VsDataContainer is only used for the Bulk CM IRP.

#### 4.2.2 Inheritance

This clause depicts the inheritance relationships that exist between IOCs.

Figure 4.2.2-1 shows the inheritance hierarchy for the GERAN NRM.

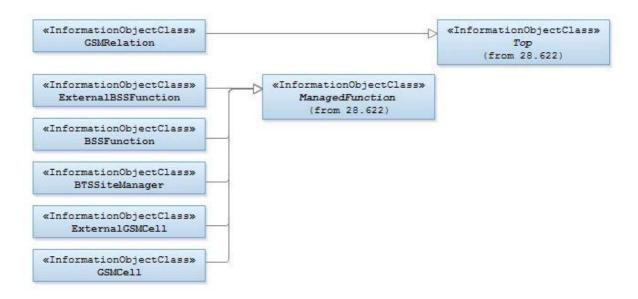


Figure 4.2.2-1: GERAN NRM Inheritance Hierarchy

#### 4.3 Class definitions

#### 4.3.1 BSSFunction

#### 4.3.1.1 Definition

This IOC represents BSS functionality. For more information about the BSS, see Ref 3GPP TS 23.002 [7].

#### 4.3.1.2 Attributes

None.

#### 4.3.1.3 Attribute constraints

None.

#### 4.3.1.4 Notifications

The common notifications defined in subclause 4.5.1 are valid for this IOC, without exceptions or additions.

#### 4.3.2 BTSSiteMgr

#### 4.3.2.1 Definition

This IOC contains site specific information for a BTS site.

#### 4.3.2.2 Attributes

	Support			isInvariant	isNotifyable
Attribute name	Qualifier	isReadable	isWritable		
latitude	0	M	M	-	0
longitude	0	M	M	-	0
operationalState (see NOTE	CM	M	-	-	M (see NOTE
1)					2)

NOTE 1: No state propagation shall be implied.

NOTE 2: The attribute value change is conveyed by the notifyStateChange notification.

#### 4.3.2.3 Attribute constraints

Name	Definition
operationalState CM	The State Management IRP is supported.
support qualifier	

#### 4.3.2.4 Notifications

The common notifications defined in subclause 4.5 are valid for this IOC In addition, the following set of notification, defined in 3GPP TS 32.662 [17], is also valid.

Name	Qualifier	Notes
notifyStateChange	0	

#### 4.3.3 GSMCell

#### 4.3.3.1 Definition

This IOC represents the GSM radio cell. The applicability of instantiation of this class is depending on the ME type. It may only be instantiated under ME of type BSC.

#### 4.3.3.2 Attributes

Attribute name	Support Qualifier	isReadable	isWritable	isInvariant	isNotifyable
cellIdentity	M	M	M	-	М
cellAllocation	M	M	M	-	М
ncc	M	M	M	-	М
bcc	M	M	M	-	М
lac	M	M	M	-	M
mcc	M	М	М	-	M
mnc	M	M	M	-	M
rac	CM	М	М	-	M
racc	CM	M	M	-	M
tsc	CM	M	M	-	M
rxLevAccessMin	M	M	M	-	M
msTxPwrMaxCCH	M	М	М	-	M
rfHoppingEnabled	M	М	М	-	M
hoppingSequenceList	M	М	М	-	M
plmnPermitted	M	М	М	-	M

#### 4.3.3.3 Attribute constraints

Name	Definition
rac CM support qualifier	GPRS is supported in the cell.
racc CM support qualifier	GPRS is supported in the cell.
tsc CM support qualifier	RET, TMA etc. are not modelled according to Ref 3GPP TS 28.662 [12].

#### 4.3.3.4 Notifications

The common notifications defined in subclause 4.5 are valid for this IOC, without exceptions or additions.

#### 4.3.4 GSMRelation

#### 4.3.4.1 Definition

This IOC contains a Neighbour cell Relation (NR) from a source cell to a target cell, where the target cell is a GSMCell or ExternalGSMCell instance.

NOTE: In handover relation terms, the cell containing the GSMRelation object is the source cell for the handover. The cell referred to in the GSMRelation object is the target cell for the handover. This defines a one-way handover relation where the direction is *from* source cell *to* target cell.

The source cell can be a GSMCell instance. This is the case for an Intra-GERAN NR.

The source cell can be a UTRANGenericCell instance. This is the case for Inter-RAT NR from UTRAN to GERAN. See 3GPP TS 28.652 [9].

The source cell can be an EUTRANGenericCell instance. This is the case for Inter-RAT NR from E-UTRAN to GERAN. See 3GPP TS 28.658 [10].

#### 4.3.4.2 Attributes

Attribute name	Support Qualifier	isReadable	isWritable	isInvariant	isNotifyable
bcchFrequency	CM	M	-	-	M
ncc	CM	M	-	-	M
bcc	CM	M	-	-	M
lac	CM	M	-	-	M
isHOAllowed	CM	M	М	-	M
isRemoveAllowed	CM	M	М	-	M
isESCoveredBy	CM	M	М	-	M
Attribute related to role					
adjacentCell	СМ	М	-	-	M

#### 4.3.4.3 Attribute constraints

Name	Definition
bcchFrequency CM support qualifier	The EM does not guarantee consistency between the cell definition and what is broadcast on system information and RET, TMA etc. are not modelled according to Ref 3GPP TS 28.662 [12].
ncc CM support qualifier	The EM does not guarantee consistency between the cell definition and what is broadcast on system information.
bcc CM support qualifier	The EM does not guarantee consistency between the cell definition and what is broadcast on system information.
lac CM support qualifier	The EM does not guarantee consistency between the cell definition and what is broadcast on system information.
isRemoveAllowed Support Qualifier	The condition is "Inter-RAT ANR function is supported in the source cell, and the source cell is an EUTRANGenericCell or a UTRANGenericCell".
isHOAllowed Support Qualifier	The condition is "Inter-RAT ANR function is supported in the source cell, and the source cell is an EUTRANGenericCell or a UTRANGENERICCELL".
isESCoveredBy Support Qualifier	The condition is "The source cell is an E-UTRAN or UTRAN cell which supports Inter-RAT Energy Saving".
adjacentCell Support Qualifier	The conditions are:  'The target cell and the serving cell (name-containing this GSMRelation) are managed by different IRPAgent' or 'the target cell and the serving cell (name-containing this GSMRelation) are managed by the same IRPAgent'.
	When former condition is true, the role-attribute holds the DN of an ExternalGSMCell instance. When the latter condition is true, the role-attribute holds the DN of a GSMCell instance.

#### 4.3.4.4 Notifications

The common notifications defined in subclause 4.5.2 are valid for this IOC, without exceptions or additions.

#### 4.3.5 ExternalGSMCell

#### 4.3.5.1 Definition

This IOC represents a radio cell controlled by another IRPAgent. This IOC has necessary attributes for inter-system handover. It contains a subset of the attributes of related IOCs controlled by another IRPAgent. To maintain the consistency between the attribute values of these two IOCs is outside the scope of this document.

#### 4.3.5.2 Attributes

Attribute name	Support Qualifier	isReadable isWritable		isInvariant	isNotifyable
cellIdentity	M	M	М	-	М
bcchFrequency	M	M	М	-	М
ncc	M	M	M	-	М
bcc	M	M	М	-	М
lac	M	M	М	-	M
mcc	M	M	M	ı	М
mnc	M	M	M	ı	М
rac	CM	М	М	-	М
racc	CM	M	М	-	М

#### 4.3.5.3 Attribute constraints

Name	Definition
rac CM support qualifier	GPRS is supported in the cell.
racc CM support qualifier	GPRS is supported in the cell.

#### 4.3.5.4 Notifications

The common notifications defined in subclause 4.5.2 are valid for this IOC, without exceptions or additions.

#### 4.3.6 ExternalBSSFunction

#### 4.3.6.1 Definition

This IOC represents a BSSFunction controlled by another IRPAgent. It contains a subset of the attributes of related IOCs controlled by another IRPAgent. To maintain the consistency between the attribute values of these two IOCs is outside the scope of the present document.

#### 4.3.6.2 Attributes

None.

#### 4.3.6.3 Attribute constraints

None.

#### 4.3.6.4 Notifications

The common notifications defined in subclause 4.5.2 are valid for this IOC, without exceptions or additions.

## 4.4 Attribute definitions

## 4.4.1 Attribute properties

The following table defines the properties of attributes specified in the present document.

Table 4.4.1: Attributes

Attribute Name	Documentation and Allowed values	Properties
GSMCell.bcc	type: Integer multiplicity: 1 isOrdered: N/A isUnique: N/A defaultValue: None isNullable: False	
ExternalGSMCell.bcc	allowedValues: N/A  ExternalGSMCell.bcc  Base station colour code, BCC (part of BSIC). Ref 3GPP TS 44.018 [4].  See Ref 3GPP TS 44.018 [4].  allowedValues: N/A	
GSMRelation.bcc		
ExternalGsmCell.bcch Frequency	This attribute contains the absolute radio frequency channel number of the BCCH channel of the GSM cell.  allowedValues: N/A	type: Integer multiplicity: 1 isOrdered: N/A isUnique: N/A defaultValue: None isNullable: False
GSMRelation.bcchFreq uency	This attribute contains the absolute radio frequency channel number of the BCCH channel of another GSM cell or the external GSM cell, that is broadcast in System Information in the Cell.  allowedValues: N/A	type: Integer multiplicity: 1 isOrdered: N/A isUnique: N/A defaultValue: None isNullable: False
cellAllocation	This attribute defines the set of radio frequencies allocated and available to a cell, the first element sets the BCCH frequency, Ref 3GPP TS 44.018 [4].  See Ref 3GPP TS 44.018 [4].  allowedValues: N/A	type: Integer multiplicity: 0* isOrdered: False isUnique: True defaultValue: None isNullable: False
cellIdentity	Cell Identity (Ref 3GPP TS 24.008 [3]).  See Ref 3GPP TS 24.008 [3].  allowedValues: N/A	type: Integer multiplicity: 1 isOrdered: N/A isUnique: N/A defaultValue: None isNullable: False
hoppingSequenceList	This attribute defines a sequence of structures. Each structure has two elements. One element carries the MA as defined in 44.018 [4] and the other element carries the HSN as defined in 45.502 [6].	type: < <datatype>&gt; multiplicity: 1 isOrdered: False isUnique: True defaultValue: None</datatype>

Attribute Name	Documentation and Allowed values	Properties	
	allowedValues: N/A	isNullable: False	
isESCoveredBy	The value of the attribute is configured by the IRPManager and is not changed by the IRPAgent. It indicates whether the adjacentCell according to this planning provides no, partial or full Inter-RAT coverage for the cell which name-contains the GSMRelation instance.  Adjacent cells with this attribute equal to 'yes' are recommended to be considered as candidate cells to take over the coverage when the original cell is about to be transferred to energySaving state.  The entirety of adjacent cells with this property equal to 'partial' are recommended to be considered as entirety of candidate cells to take over the coverage when the original cell is about to be transferred to energySaving state.  allowedValues: No, partial, yes	type: ENUM multiplicity: 1 isOrdered: N/A isUnique: N/A defaultValue: None isNullable: False	
GSMCell.lac	Location Area Code (LAC). Ref 3GPP TS 24.008 [3].  See Ref 3GPP TS 24.008 [3].  allowedValues: N/A	type: Integer multiplicity: 1 isOrdered: N/A isUnique: N/A defaultValue: None isNullable: False	
GSMRelation.lac	Location Area Code, LAC (Ref 3GPP TS 24.008 [3]) for another GSM cell or the external GSM cell, that is broadcast in System Information in the Cell.  See Ref 3GPP TS 24.008 [3].  allowedValues: N/A	type: Integer multiplicity: 1 isOrdered: N/A isUnique: N/A defaultValue: None isNullable: False	
latitude	Used for geographical positioning of the site manager.  allowedValues: N/A	type: Integer multiplicity: 1 isOrdered: N/A isUnique: N/A defaultValue: None isNullable: False	
longitude	Used for geographical positioning of the site manager.  allowedValues: N/A	type: Integer multiplicity: 1 isOrdered: N/A isUnique: N/A defaultValue: None isNullable: False	
mac	Mobile Country Code, MCC (part of the PLMN Id, Ref. 3GPP TS 23.003 [8]).  See Ref 3GPP TS 24.008 [3].	type: Integer multiplicity: 1 isOrdered: N/A isUnique: N/A defaultValue: None allowedValues: N/A isNullable: False	
mnc	Mobile Network Code, MNC (part of the PLMN Id, Ref. 3GPP TS 23.003 [8]).  See Ref 3GPP TS 24.008 [3].  allowedValues: N/A	type: Integer multiplicity: 1 isOrdered: N/A isUnique: N/A defaultValue: None isNullable: False	
msTxPwrMaxCCH	Maximum Transmission Power for a Mobile Station on a CCH.	type: Integer	

SGPPTS 44.018 [4]) for another GSM cell or the external GSM multiplicity: 1 sordered: N/A isUnique: N/A defaultValue: None isNullable: False store of the continuous process. In System Information in the Cell.  See Ref 3GPP TS 44.018 [4].  allowedValues: N/A  PIMIPERMITTED  See Ref 3GPP TS 45.008 [5] (NCC_PERMITTED).  See Ref 3GPP TS 45.008 [5].  allowedValues: N/A  Routing Area Code, RAC. Ref 3GPP TS 44.018 [4].  allowedValues: N/A  See Ref 3GPP TS 44.018 [4].  allowedValues: N/A  See Ref 3GPP TS 44.018 [4].  See Ref 3GPP TS 44.018 [4].  allowedValues: N/A  See Ref 3GPP TS 44.018 [4].  See Ref 3GPP TS 44.018 [4].  allowedValues: N/A  See Ref 3GPP TS 44.018 [4].  See Ref 3GPP TS 44.018 [4].  allowedValues: N/A  See Ref 3GPP TS 44.018 [4].  See Ref 3GPP TS 44.018 [4].  Boolean value false represents "disabled"; true represents is isordered: N/A isUnique: N/A defaultValue: None isNullable: False  TFHoppingEnabled  Indicates if frequency hopping is enabled.  Type: Boolean multiplicity: 1 isordered: N/A isUnique: N/A defaultValue: None isNullable: False  TxLevAccessMin  Minimum Access Level. Attribute description Ref SGPP TS 45.008 [5].  allowedValues: N/A  See Ref 3GPP TS 45.008 [5].  Training Sequence Code, an attribute of the class channel in Ref 3GPP TS 44.018 [4].  See Ref 3GPP TS 44.018 [4].	Attribute Name	Documentation and Allowed values	Properties
(MS_TXPVMR_MAX_CCH).  See Ref 3GPP TS 45.008 [5].  allowedValues: N/A  Network Colour Code, NCC (part of BSIC). Ref 3GPP TS 44.018 [4].  See Ref 3GPP TS 45.008 [5] (NCC PERMITTED).  See Ref 3GPP TS 45.008 [5].  See Ref 3GPP TS 44.018 [4].  See Ref		Attribute description Ref 3GPP TS 45.008 [5]	•
See Ref 3GPP TS 45.008 [5].  allowedValues: N/A  Sem Ref 3GPP TS 44.018 [4].  See Ref 3GPP TS 45.008 [5].  See Ref 3GPP TS 44.018 [4].  See Ref 3GPP TS 45.008 [5].  See Ref 3GPP TS 44.018 [4].  See Ref 3GPP TS 44.008 [5].  See Ref 3GPP TS 44.008 [5].  See Ref 3GPP TS 44.008 [5].  See Ref 3GPP TS 44.018 [4].  See Ref 3GPP TS 44.018 [4].  See Ref 3GPP TS 44.018 [4].  See Ref 3GPP TS 44.008 [5].  See Ref 3GPP TS 44.018 [4].  See Ref 3GPP TS 44.008 [5].  See Ref 3GPP TS 44.018 [4].  See Ref 3GPP TS 44.018 [4].  See Ref 3GPP TS 44.018 [4].  See Ref 3GPP TS 44.018 [4		(MS_TXPWR_MAX_CCH)	
See Ref 3GPP TS 45.008 [5].  allowedValues: NA  Network Colour Code, NCC (part of BSIC). Ref 3GPP TS 44.018 [4].  see Ref 3GPP TS 44.018 [4].  see Ref 3GPP TS 44.018 [4].  sluvique: NA defaultValue: None isNullable: False  type: Integer multiplicity: 1 isOrdered: NA isUnique: NA defaultValue: None isNullable: False  type: Integer multiplicity: 1 isOrdered: NA isUnique: NA defaultValue: None isNullable: False  type: Integer multiplicity: 1 isOrdered: NA isUnique: NA defaultValue: None isNullable: False  type: Integer multiplicity: 1 isOrdered: NA isUnique: NA defaultValue: None isNullable: False  type: Integer multiplicity: 1 isOrdered: NA isUnique: NA defaultValue: None isNullable: False  Type: Integer multiplicity: 1 isOrdered: NA isUnique: NA defaultValue: None isNullable: False  Type: Integer multiplicity: 1 isOrdered: NA isUnique: NA defaultValue: None isNullable: False  Type: Integer multiplicity: 1 isOrdered: NA isUnique: NA defaultValue: None isNullable: False  Type: Integer multiplicity: 1 isOrdered: NA isUnique: NA defaultValue: None isNullable: False  Type: Integer multiplicity: 1 isOrdered: NA isUnique: NA defaultValue: None isNullable: False  Type: Integer multiplicity: 1 isOrdered: NA isUnique: NA defaultValue: None isNullable: False  Type: Integer multiplicity: 1 isOrdered: NA isUnique: NA defaultValue: None isNullable: False  Type: Integer multiplicity: 1 isOrdered: NA isUnique: NA defaultValue: None isNullable: False  Type: Integer multiplicity: 1 isOrdered: NA isUnique: NA defaultValue: None isNullable: False  Type: Integer multiplicity: 1 isOrdered: NA isUnique: NA defaultValue: None isNullable: False  Type: Integer multiplicity: 1 isOrdered: NA isUnique: NA defaultValue: None isNullable: False  Type: Integer multiplicity: 1 isOrdered: NA isUnique: NA defaultValue: None isNullable: False  Type: Integer multiplicity: 1 isOrdered: NA isUnique: NA defaultValue: None isNullable: False  Type: Integer multiplicity: 1 isOrdered: NA isUnique: NA defaultValue: None isNullable: False  Type: Integer mult		(MO_17X1 VVIX_NVX_OOT1).	
allowedValues: N/A  Network Colour Code, NCC (part of BSIC), Ref 3GPP TS 44.018 [4].  See Ref 3GPP TS 45.018 [4].  See Ref 3GPP TS 45.018 [4].  See Ref 3GPP TS 45.018 [4].  See Ref 3GPP TS 45.008 [5] (NCC_PERMITTED).  See Ref 3GPP TS 45.008 [5].  See Ref 3GPP TS 44.018 [4].  See Ref 3GPP TS 44.008 [5].  See Ref 3GPP TS 44.008 [5].  See Ref 3GPP TS 44.018 [4].  S		0 D - ( 00DD T0 45 000 [5]	
allowed/values: N/A  SBMCell.ncc  Network Colour Code, NCC (part of BSIC). Ref aGPP TS 44.018 [4].  See Ref 3GPP TS 44.018 [4].  allowed/values: N/A  BEXTERNAL GSMCell.ncc  Network Colour Code, NCC (part of BSIC. Ref aGPP TS 44.018 [4]) for another GSM cell or the external GSM multiplicity: 1 isolorared: N/A isultiplicity: 1 iso		See Ret 3GPP 15 45.008 [5].	
Network Colour Code, NCC (part of BSIC). Ref   Signatural See Ref 3GPP TS 44.018 [4].   See Ref 3GPP TS 45.008 [5].   See Re			isNullable: False
Sce Ref 3GPP TS 44.018 [4].   Indicates if Frequency hopping is enabled.		allowedValues: N/A	
Sce Ref 3GPP TS 44.018 [4].   Indicates if Frequency hopping is enabled.	CCMColl nag	Network Colour Code, NCC (part of RSIC), Ref	type: Integer
See Ref 3GPP TS 44.018 [4].  allowedValues: N/A  BEXTERNAL SUDIQUE: N/A  default/Value: None sixturing: N/A  subject in See Ref 3GPP TS 44.018 [4].  Default See Ref 3GPP TS 44.018 [4].  See Ref 3GPP TS 45.008 [5].  Reac  Routing Area Code, RAC. Ref 3GPP TS 44.018 [4].  allowedValues: N/A  See Ref 3GPP TS 44.018 [4].  Sordered: N/A  Sublique: N/A  default/value: None sixtuliable: False  TeltoppingEnabled  Indicates if frequency hopping is enabled.  Boolean value false represents "disabled"; true represents "enabled".  Boolean value: N/A  Sibrique: N/A  Si	GSMCell.ncc		
See Ref 3GPP TS 44.018 [4].  allowedValues: N/A  BexternalGSNCell.ncc  Network Colour Code, NCC (part of BSIC, Ref 3CPP TS 44.018 [4]).  See Ref 3GPP TS 44.018 [4].  AllowedValues: N/A  Network Colour Code Permitted, Attribute description reference inshullable: False  PlanaPermitted  Network Colour Code Permitted, Attribute description reference inshullable: False  Network Colour Code Permitted, Attribute description reference inshullable: False  Network Colour Code Permitted, Attribute description reference inshullable: False  PlanaPermitted  Network Colour Code Permitted, Attribute description reference inshullable: False  Ref 3GPP TS 45.008 [5], (NCC_PERMITTED).  See Ref 3GPP TS 45.008 [5].  AllowedValues: N/A  Beace  Routing Area Code, RAC. Ref 3GPP TS 44.018 [4].  See Ref 3GPP TS 44.018 [4].  AllowedValues: N/A  Beace  Routing Area Colour Code, RACC, Ref 3GPP TS 44.018 [4].  See Ref 3GPP TS 44.018 [4].  See Ref 3GPP TS 44.018 [4].  See Ref 3GPP TS 44.018 [4].  Beace  Routing Area Colour Code, RACC, Ref 3GPP TS 44.018 [4].  See Ref 3GPP TS 44.018 [4].  See Ref 3GPP TS 44.018 [4].  Boloean value false represents 'disabled'; true represents 'instruction on shullable: False  PrilioppingRnabled  Indicates if frequency hopping is enabled.  Boloean value false represents 'disabled'; true represents in shullable: False  PrilioppingRnabled  Indicates if frequency hopping is enabled.  Boloean value false represents 'disabled'; true represents in shullable: False  PrilioppingRnabled  Indicates if Requency hopping is enabled.  Boloean value false represents 'disabled'; true represents in shullable: False  Ref 3GPP TS 45.008 [5], (RXLEV_ACCESS MIN)  See Ref 3GPP TS 45.008 [6], (RXLEV_ACCES		JOFF 13 44.010 [4].	
allowedValues: N/A  BEXTERNALGSMCell.ncc  Network Colour Code, NCC (part of BSIC. Ref 3GPP TS 44.018 [4]) tor another GSM cell or the external GSM colour Code, NCC (part of BSIC. Ref 3GPP TS 44.018 [4]) tor another GSM cell or the external GSM isUnique: N/A schique: N/A schique: N/A schique: N/A schique: N/A defaultValue: None stable of the external GSM (subject of the external GSM isUnique: N/A defaultValue: None stable of the external GSM (subject is sordered: N/A) subject is the external GSM (subject is sordered: N/A) subject is the external GSM (subject is the external GSM (subject is N/A) allowedValues: N/A  Face  Routing Area Code Permitted. Attribute description reference lype: Integer multiplicity: 1 isOrdered: N/A isUnique: N/A defaultValue: None isNullable: False with allowedValues: N/A  Face  Routing Area Code, RAC. Ref 3GPP TS 44.018 [4].  Face  Routing Area Colour Code, RACC. Ref 3GPP TS 44.018 [4].  See Ref 3GPP TS 44.018 [4].  See Ref 3GPP TS 44.018 [4].  See Ref 3GPP TS 44.018 [4].  AllowedValues: N/A  Boolean value false represents "disabled"; true represents enabled: subject is sordered: N/A isUnique: N/A defaultValue: None isNullable: False  False  FEHOppingEnabled  Indicates if frequency hopping is enabled.  Boolean value false represents "disabled"; true represents enabled: subject is sordered: N/A isUnique: N/A defaultValue: None isNullable: False  FELEVANCESSMIN  See Ref 3GPP TS 45.008 [5].  AllowedValues: N/A  See Ref 3GPP TS 45.008 [5].  AllowedValues: N/A  See Ref 3GPP TS 44.018 [4].  See Ref 3GPP TS 4		0 D-4 00DD TO 44 040 [4]	
allowedValues: N/A  ExternalGSMCell.ncc Network Colour Code, NCC (part of BSIC, Ref 3CPP TS 44.018 [4]) for another GSM cell or the external GSM multiplicity: 1 isOrdered: N/A sellowedValues: N/A  PlmnPermitted Network Colour Code Permitted, Attribute description reference isNullable: False  Network Colour Code Permitted, Attribute description reference isNullable: False  PlmnPermitted Network Colour Code Permitted, Attribute description reference isNullable: False  Network Colour Code Permitted, Attribute description reference isNullable: False  PlmnPermitted Network Colour Code Permitted, Attribute description reference isNullable: False  Network Colour Code Permitted, Attribute description reference isNullable: False  Network Colour Code, PERMITTED). See Ref 3GPP TS 45.008 [5].  Indeautivalue: N/A  Routing Area Code, RAC. Ref 3GPP TS 44.018 [4].  Isordered: N/A		See Ref 3GPP 15 44.018 [4].	
ExternalGSMCell.ncc  Network Colour Code, NCC (part of BSIC, Ref 3GPP TS 44.018 [4]), for another GSM cell or the external GSM cell, that is broadcast in System Information in the Cell.  See Ref 3GPP TS 44.018 [4].  allowedValues: N/A  PlmnPermitted  Network Colour Code Permitted. Attribute description reference 3GPP TS 45.008 [5] (NCC_PERMITTED).  See Ref 3GPP TS 45.008 [5].  See Ref 3GPP TS 45.008 [5].  Routing Area Code, RAC. Ref 3GPP TS 44.018 [4].  allowedValues: N/A  allowedValues: N/A  Exac  Routing Area Code, RAC. Ref 3GPP TS 44.018 [4].  See Ref 3GPP TS 44.018 [4].  allowedValues: N/A  Exac  Routing Area Colour Code, RACC. Ref 3GPP TS 44.018 [4].  See Ref 3GPP TS 44.018 [4].  allowedValues: N/A  allowedValues: N/A  Exac  Routing Area Colour Code, RACC. Ref 3GPP TS 44.018 [4].  See Ref 3GPP TS 44.018 [4].  allowedValues: N/A  allowedValues: N/A  See Ref 3GPP TS 44.018 [4].  See Ref 3GPP TS 44.018 [4].  Indicates if frequency hopping is enabled.  Boolean value false represents "disabled"; true represents "use and befaultValue: None is Nullable: False  Exace  Minimum Access Level. Attribute description Ref 3GPP TS 45.008 [5].  allowedValues: N/A  Minimum Access Level. Attribute description Ref 3GPP TS 45.008 [5].  allowedValues: N/A  Exace  Training Sequence Code, an attribute of the class channel in Ref 3GPP TS 44.018 [4].  See Ref 3GPP TS 44.018 [4].  See Ref 3GPP TS 44.018 [4].  Training Sequence Code, an attribute of the class channel in Ref 3GPP TS 44.018 [4].  See Ref 3GPP TS 44.018 [4].		H	
GPP TS 44.018 [4]) for another GSM cell or the external GSM multiplicity: 1 isOrdered: N/A isUnique: N/A default/Value: N/A def		allowed values: N/A	ISNUIIADIE: Faise
GPP TS 44.018 [4]) for another GSM cell or the external GSM multiplicity: 1 isOrdered: N/A isUnique: N/A default/Value: N/A def	ExternalGSMCell.ncc	Network Colour Code, NCC (part of BSIC, Ref	type: Integer
cell, that is broadcast in System Information in the Cell.  See Ref 3GPP TS 44.018 [4].  allowedValues: N/A  Metwork Colour Code Permitted. Attribute description reference isNullable: False  Network Colour Code Permitted. Attribute description reference isNullable: False  Network Colour Code Permitted. Attribute description reference isNullable: False  Network Colour Code Permitted. Attribute description reference isNullable: False  Network Colour Code Permitted. Attribute description reference isNullable: False  Network Colour Code Permitted. Attribute description reference isNullable: False  Routing Area Code, RAC. Ref 3GPP TS 44.018 [4].  See Ref 3GPP TS 44.018 [4].  allowedValues: N/A  Routing Area Code, RAC. Ref 3GPP TS 44.018 [4].  IsOrdered: N/A isUnique: N/A defaultValue: None isNullable: False  Type: Integer multiplicity: 1 isOrdered: N/A isUnique: N/A defaultValue: None isNullable: False  Type: Boolean multiplicity: 1 isOrdered: N/A isUnique: N/A defaultValue: None isNullable: False  Type: Boolean multiplicity: 1 isOrdered: N/A isUnique: N/A defaultValue: None isNullable: False  Type: Boolean multiplicity: 1 isOrdered: N/A isUnique: N/A defaultValue: None isNullable: False  Type: Boolean multiplicity: 1 isOrdered: N/A isUnique: N/A defaultValue: None isNullable: False  Type: Integer multiplicity: 1 isOrdered: N/A isUnique: N/A defaultValue: None isNullable: False  Training Sequence Code, an attribute of the class channel in Ref 3GPP TS 45.008 [5].  Training Sequence Code, an attribute of the class channel in Ref 3GPP TS 44.018 [4].  See Ref 3GPP TS 44.018 [4].  Isordered: N/A isUnique: N/A defaultValue: None isNullable: False  Training Sequence Code, an attribute of the class channel in Nullable: False  Type: Integer multiplicity: 1 isOrdered: N/A isUnique: N/A defaultValue: None isNullable: False  Type: Integer multiplicity: 1 isOrdered: N/A isUnique: N/A defaultValue: None isNullable: False  Type: Integer multipli			
See Ref 3GPP TS 44.018 [4].  allowedValues: N/A  Network Colour Code Permitted. Attribute description reference is Nullable: False  Network Colour Code Permitted. Attribute description reference is Nullable: False  Network Colour Code Permitted. Attribute description reference is Nullable: False  See Ref 3GPP TS 45.008 [5].  See Ref 3GPP TS 45.008 [5].  allowedValues: N/A  See Ref 3GPP TS 44.018 [4].  allowedValues: N/A  See Ref 3GPP TS 44.018 [4].  Indicates if frequency hopping is enabled.  See Ref 3GPP TS 45.008 [5].  Boolean value false represents "disabled"; true represents is isordered: N/A isUnique: N/A defaultValue: None isNullable: False  See Ref 3GPP TS 45.008 [5].  ReviewedValues: R/A  See Ref 3GPP TS 45.008 [5].  AllowedValues: N/A  See Ref 3GPP TS 44.018 [4].  See Ref 3GPP			
See Ref 3GPP TS 44.018 [4].  allowedValues: N/A  Network Colour Code Permitted. Attribute description reference insullable: False  Network Colour Code Permitted. Attribute description reference multiplicity: 1 isordered: N/A isUnique: N/A  See Ref 3GPP TS 45.008 [5].  allowedValues: N/A  Routing Area Code, RAC. Ref 3GPP TS 44.018 [4].  See Ref 3GPP TS 44.018 [4].  allowedValues: N/A  Routing Area Colour Code, RACC. Ref 3GPP TS 44.018 [4].  See Ref 3GPP TS 44.018 [4].  Isordered: N/A isUnique: N/A  default/alue: Once isNullable: False  Facc  Routing Area Colour Code, RACC. Ref 3GPP TS 44.018 [4].  See Ref 3GPP TS 44.018 [4].  AllowedValues: N/A  allowedValues: N/A  isoluique: N/A  default/value: None isNullable: False  FiloppingEnabled  Indicates if frequency hopping is enabled.  Boolean value false represents "disabled"; true represents untiplicity: 1 isOrdered: N/A isUnique: N/A default/value: None isNullable: False  FiloppingEnabled  Minimum Access Level. Attribute description Ref allowedValues: N/A  See Ref 3GPP TS 45.008 [5].  AllowedValues: N/A  See Ref 3GPP TS 45.008 [5].  AllowedValues: N/A  See Ref 3GPP TS 44.018 [4].  AllowedValues: N/A  Indicates if HO is allowed or prohibited.  This indicates if HO is allowed or prohibited.  This indicates if HO is allowed or prohibited.		leen, that is broadcast in System information in the Cen.	
allowedValues: N/A  Network Colour Code Permitted. Attribute description reference sorting of the provided and provided an		Coo Pof 2CDD TC 44 049 [4]	
allowedValues: N/A  Network Colour Code Permitted. Attribute description reference to 3GPP TS 45.008 [5] (NCC_PERMITTED).  See Ref 3GPP TS 45.008 [5].  allowedValues: N/A  Face  Routing Area Code, RAC. Ref 3GPP TS 44.018 [4].  See Ref 3GPP TS 44.018 [4].  AllowedValues: N/A  Routing Area Colour Code, RACC. Ref 3GPP TS 44.018 [4].  See Ref 3GPP TS 44.018 [4].  AllowedValues: N/A  Routing Area Colour Code, RACC. Ref 3GPP TS 44.018 [4].  See Ref 3GPP TS 44.018 [4].  See Ref 3GPP TS 44.018 [4].  AllowedValues: N/A  Boolean value false represents "disabled"; true represents enabled.  Pype: Boolean multiplicity: 1 is Ordered: N/A is Unique: N/A is			
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3GPP TS 45.008 [5] (NCC_PERMITTED).  See Ref 3GPP TS 45.008 [5].  allowedValues: N/A  allowedValues: N/A  Routing Area Code, RAC. Ref 3GPP TS 44.018 [4].  See Ref 3GPP TS 44.018 [4].  See Ref 3GPP TS 44.018 [4].  sisUnique: N/A  defaultValue: None isNullable: False  racc  Routing Area Colour Code, RACC. Ref 3GPP TS 44.018 [4].  Type: Integer multiplicity: 1 isOrdered: N/A isUnique: N/A  defaultValue: None isNullable: False  racc  Routing Area Colour Code, RACC. Ref 3GPP TS 44.018 [4].  See Ref 3GPP TS 44.018 [4].  See Ref 3GPP TS 44.018 [4].  allowedValues: N/A  allowedValues: N/A  isUnique: N/A  defaultValue: None isNullable: False  rfHoppingEnabled  Indicates if frequency hopping is enabled.  Boolean value false represents "disabled"; true represents isordered: N/A isUnique: N/A defaultValue: None isNullable: False  rxLevAccessMin  Minimum Access Level. Attribute description Ref  3GPP TS 45.008 [5] (RXLEV_ACCESS_MIN)  See Ref 3GPP TS 45.008 [5].  Training Sequence Code, an attribute of the class channel in Ref 3GPP TS 44.018 [4].  See Ref 3GPP TS 44.018 [4].  Training Sequence Code, an attribute of the class channel in Ref 3GPP TS 44.018 [4].  See Ref 3GPP TS 44.018 [4].  See Ref 3GPP TS 44.018 [4].  Training Sequence Code, an attribute of the class channel in Lipicity: 1 isOrdered: N/A isUnique: N/A defaultValue: None isNullable: False  Training Sequence Code, an attribute of the class channel in Lipicity: 1 isOrdered: N/A isUnique: N/A defaultValue: None isNullable: False  Training Sequence Code, an attribute of the class channel in Lipicity: 1 isOrdered: N/A isUnique: N/A defaultValue: None isNullable: False  Training Sequence Code, an attribute of the class channel in Lipicity: 1 isOrdered: N/A isUnique: N/A defaultValue: None isNullable: False		allowed values. IN/A	
3GPP TS 45.008 [5] (NCC_PERMITTED).  See Ref 3GPP TS 45.008 [5]. allowedValues: N/A  Routing Area Code, RAC. Ref 3GPP TS 44.018 [4].  See Ref 3GPP TS 44.018 [4]. allowedValues: N/A  See Ref 3GPP TS 44.018 [4]. allowedValues: N/A  Routing Area Colour Code, RACC. Ref 3GPP TS 44.018 [4].  See Ref 3GPP TS 44.018 [4]. allowedValues: N/A  Routing Area Colour Code, RACC. Ref 3GPP TS 44.018 [4]. See Ref 3GPP TS 44.018 [4]. allowedValues: N/A  See Ref 3GPP TS 44.018 [4]. allowedValues: N/A  Indicates if frequency hopping is enabled.  rfHoppingEnabled  Indicates if frequency hopping is enabled.  rfloppingEnabled  Indicates if frequency hopping is enabled.  Indicates if frequency hopping is ena	plmnPermitted	Network Colour Code Permitted. Attribute description reference	type: Integer
See Ref 3GPP TS 45.008 [5].  allowedValues: N/A  Routing Area Code, RAC. Ref 3GPP TS 44.018 [4].  See Ref 3GPP TS 44.018 [4].  allowedValues: N/A  Bee Ref 3GPP TS 44.018 [4].  allowedValues: N/A  Routing Area Colour Code, RACC. Ref 3GPP TS 44.018 [4].  slondered: N/A  defaultValue: None isNullable: False  racc  Routing Area Colour Code, RACC. Ref 3GPP TS 44.018 [4].  See Ref 3GPP TS 44.018 [4].  See Ref 3GPP TS 44.018 [4].  allowedValues: N/A  allowedValues: N/A  allowedValues: N/A  defaultValue: None isNullable: False  rfHoppingEnabled  Indicates if frequency hopping is enabled.  Boolean value false represents "disabled"; true represents is ordered: N/A isUnique: N/A defaultValue: None isNullable: False  rxLevAccessMin  Minimum Access Level. Attribute description Ref 3GPP TS 45.008 [5] (RXLEV_ACCESS_MIN)  See Ref 3GPP TS 45.008 [5].  allowedValues: N/A  tsChique: N/A defaultValue: None isNullable: False  type: Integer multiplicity: 1 isOrdered: N/A isUnique: N/A defaultValue: None isNullable: False  rxLevAccessMin  Training Sequence Code, an attribute of the class channel in Ref 3GPP TS 44.018 [4].  See Ref 3GPP TS 44.018 [4].  See Ref 3GPP TS 44.018 [4].  See Ref 3GPP TS 44.018 [4].  IsOrdered: N/A isUnique: N/A defaultValue: None isNullable: False  Training Sequence Code, an attribute of the class channel in Ref 3GPP TS 44.018 [4].  See Ref 3GPP TS 44.018 [4].  See Ref 3GPP TS 44.018 [4].  This indicates if HO is allowed or prohibited.  This indicates if HO is allowed or prohibited.  This indicates if HO is allowed or prohibited.			
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See Ref 3GPP TS 44.018 [4].  allowedValues: N/A  allowedValues: N/A  Routing Area Colour Code, RACC. Ref 3GPP TS 44.018 [4].  See Ref 3GPP TS 44.018 [4].  allowedValues: N/A  allowedValues: N/A  allowedValues: N/A  is Unique: N/A  defaultValue: None is Nullable: False  race  Routing Area Colour Code, RACC. Ref 3GPP TS 44.018 [4].  See Ref 3GPP TS 44.018 [4].  allowedValues: N/A  is Unique: N/A  defaultValue: None is Nullable: False  renabled".  Boolean value false represents "disabled"; true represents "enabled".  allowedValues: False, True.  Indicates if frequency hopping is enabled.  Wis Boolean  multiplicity: 1 is Ordered: N/A is Unique: N/A  defaultValue: None is Nullable: False  renabled "  See Ref 3GPP TS 45.008 [5] (RXLEV_ACCESS_MIN)  See Ref 3GPP TS 45.008 [5].  allowedValues: N/A  tsc  Training Sequence Code, an attribute of the class channel in Ref 3GPP TS 44.018 [4].  See Ref 3GPP TS 44.018 [4].  See Ref 3GPP TS 44.018 [4].  allowedValues: N/A  This indicates if HO is allowed or prohibited.  This indicates if HO is allowed or prohibited.  Type: Boolean multiplicity: 1  type: Boolean multiplicity: 1	rac	Routing Area Code, RAC. Ref 3GPP TS 44.018 [4].	type: Integer
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allowedValues: N/A  allowedValues: N/A  defaultValue: None isNullable: False  Indicates if frequency hopping is enabled.  Boolean value false represents "disabled"; true represents isOrdered: N/A isUnique: N/A defaultValue: None isNullable: False  TxLevAccessMin  Minimum Access Level. Attribute description Ref 3GPP TS 45.008 [5] (RXLEV_ACCESS_MIN)  See Ref 3GPP TS 45.008 [5].  allowedValues: N/A  Training Sequence Code, an attribute of the class channel in Ref 3GPP TS 44.018 [4].  See Ref 3GPP TS 44.018 [4].  See Ref 3GPP TS 44.018 [4].  This indicates if HO is allowed or prohibited.  Type: Integer multiplicity: 1 isOrdered: N/A isUnique: N/A defaultValue: None isNullable: False  type: Integer multiplicity: 1 isOrdered: N/A isUnique: N/A defaultValue: None isNullable: False  isHOAllowed  This indicates if HO is allowed or prohibited.  Type: Boolean multiplicity: 1		See Rei SGPP 13 44.010 [4].	
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Boolean value false represents "disabled"; true represents isOrdered: N/A isUnique: N/A defaultValue: None isNullable: False  TXLevAccessMin  Minimum Access Level. Attribute description Ref 3GPP TS 45.008 [5] (RXLEV_ACCESS_MIN)  See Ref 3GPP TS 45.008 [5].  allowedValues: N/A  See Ref 3GPP TS 45.008 [5].  Training Sequence Code, an attribute of the class channel in Ref 3GPP TS 44.018 [4].  See Ref 3GPP TS 44.018 [4].  See Ref 3GPP TS 44.018 [4].  See Ref 3GPP TS 44.018 [4].  This indicates if HO is allowed or prohibited.  isOrdered: N/A isUnique: N/A defaultValue: None isNullable: False  isHOAllowed  This indicates if HO is allowed or prohibited.			
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3GPP TS 45.008 [5] (RXLEV_ACCESS_MIN)  See Ref 3GPP TS 45.008 [5].  allowedValues: N/A  Training Sequence Code, an attribute of the class channel in Ref 3GPP TS 44.018 [4].  See Ref 3GPP TS 44.018 [4].  See Ref 3GPP TS 44.018 [4].  See Ref 3GPP TS 44.018 [4].  This indicates if HO is allowed or prohibited.  multiplicity: 1 isOrdered: N/A isUnique: N/A defaultValue: None isNullable: False  tsc  This indicates if HO is allowed or prohibited.  type: Boolean multiplicity: 1		anonouvalado. Falod, 1140.	io. tanasio. I also
3GPP TS 45.008 [5] (RXLEV_ACCESS_MIN)  See Ref 3GPP TS 45.008 [5].  allowedValues: N/A  Training Sequence Code, an attribute of the class channel in Ref 3GPP TS 44.018 [4].  See Ref 3GPP TS 44.018 [4].  See Ref 3GPP TS 44.018 [4].  See Ref 3GPP TS 44.018 [4].  This indicates if HO is allowed or prohibited.  multiplicity: 1 isOrdered: N/A isUnique: N/A defaultValue: None isNullable: False  tsc  This indicates if HO is allowed or prohibited.  type: Boolean multiplicity: 1	rxLevAccessMin	Minimum Access Level. Attribute description Ref	type: Integer
isOrdered: N/A isUnique: N/A defaultValue: None isNullable: False  Training Sequence Code, an attribute of the class channel in Ref 3GPP TS 44.018 [4].  See Ref 3GPP TS 44.018 [4].  This indicates if HO is allowed or prohibited.  isOrdered: N/A isUnique: N/A defaultValue: None isNullable: False  isHOAllowed  This indicates if HO is allowed or prohibited.  type: Boolean multiplicity: 1			
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defaultValue: None isNullable: False  Training Sequence Code, an attribute of the class channel in Ref 3GPP TS 44.018 [4].  See Ref 3GPP TS 44.018 [4].  See Ref 3GPP TS 44.018 [4].  IsOrdered: N/A isUnique: N/A defaultValue: None isNullable: False  isHOAllowed  This indicates if HO is allowed or prohibited.  type: Boolean multiplicity: 1		See Ref 3GPP TS 45 008 [5]	
allowedValues: N/A  isNullable: False  Training Sequence Code, an attribute of the class channel in Ref 3GPP TS 44.018 [4].  See Ref 3GPP TS 44.018 [4].  See Ref 3GPP TS 44.018 [4].  allowedValues: N/A  isUnique: N/A  defaultValue: None isNullable: False  isHOAllowed  This indicates if HO is allowed or prohibited.  type: Boolean multiplicity: 1		Coo   Co   Co   Co   Co   Co   Co   C	
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isOrdered: N/A isUnique: N/A defaultValue: None isNullable: False  isHOAllowed  This indicates if HO is allowed or prohibited. type: Boolean multiplicity: 1			
See Ref 3GPP TS 44.018 [4].  allowedValues: N/A  isUnique: N/A  defaultValue: None isNullable: False  isHOAllowed  This indicates if HO is allowed or prohibited.  type: Boolean multiplicity: 1			
defaultValue: None isNullable: False  isHOAllowed  This indicates if HO is allowed or prohibited. type: Boolean multiplicity: 1		See Ref 3GPP TS 44.018 [4].	
allowedValues: N/A isNullable: False  isHOAllowed This indicates if HO is allowed or prohibited. type: Boolean multiplicity: 1			defaultValue: None
multiplicity: 1			
multiplicity: 1		allowedValues: N/A	
			isNullable: False
If true, handover is allowed from source cell to target cell. The lisOrdered: N/A	isHOAllowed		isNullable: False type: Boolean
in true, nandover is anowed from source centro target cent. The pisordered. N/A	isHOAllowed	This indicates if HO is allowed or prohibited.	isNullable: False type: Boolean multiplicity: 1

Attribute Name	Documentation and Allowed values	Properties
	source cell is identified by the name-containing UTRANGenericCell or EUTRANGenericCell of the GSMRelation that has the isHOAllowed. The target cell is referenced by the GSMRelation that has this isHOAllowed.  If false, handover shall not be allowed.  allowedValues: False, True.	isUnique: N/A defaultValue: None isNullable: False
isRemoveAllowed	This indicates if the subject GSMRelation can be removed (deleted) or not.  If true, the subject GSMRelation instance can be removed (deleted).  If false, the subject GSMRelation instance shall not be removed (deleted) by any entity but an IRPManager.  allowedValues: False, True.	type: Boolean multiplicity: 1 isOrdered: N/A isUnique: N/A defaultValue: None isNullable: False
Attribute related to role		
adjacentCell	This holds the DN of GSMCell or ExternalGSMCell.  allowedValues: N/A	type: DN multiplicity: 1 isOrdered: N/A isUnique: N/A defaultValue: None isNullable: False

#### 4.4.2 Constraints

None.

#### 4.5 Common notifications

#### 4.5.1 Alarm notifications

This clause presents a list of notifications, defined in 3GPP TS 32.111-2 [11], that IRPManager can receive. The notification header attribute objectClass/objectInstance, defined in 3GPP TS 32.302 [15], would capture the DN of an instance of an IOC defined in this IRP specification.

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

## 4.5.2 Configuration notifications

This clause presents a list of notifications, defined in 3GPP TS 32.662 [17], that IRPManager can receive. The notification header attribute objectClass/objectInstance, defined in 3GPP TS 32.302 [15], would capture the DN of an instance of an IOC defined in this IRP specification.

Name	Qualifier	Notes
notifyAttributeValueChange	0	
notifyObjectCreation	0	
notifyObjectDeletion	0	

# Annex A (informative): Change history

	Change history						
Date	Date TSG # TSG Doc. CR Rev Subject/Comment Old New				New		
2014-06	SA#64	SP-140332	001	1	Correct hopping sequence list data type	11.0.0	11.1.0
		SP-140359	002	-	remove the feature support statements		
2014-09	SA#65	SP-140558	004	-	Correction of operationalState attribute definitions   11.1.0   11.2.0		

## History

Document history					
V11.0.0	April 2013	Publication			
V11.1.0	July 2014	Publication			
V11.2.0	October 2014	Publication			