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Technical Specification

Digital cellular telecommunications system (Phase 2+); Universal Mobile Telecommunications System (UMTS);

LTE;

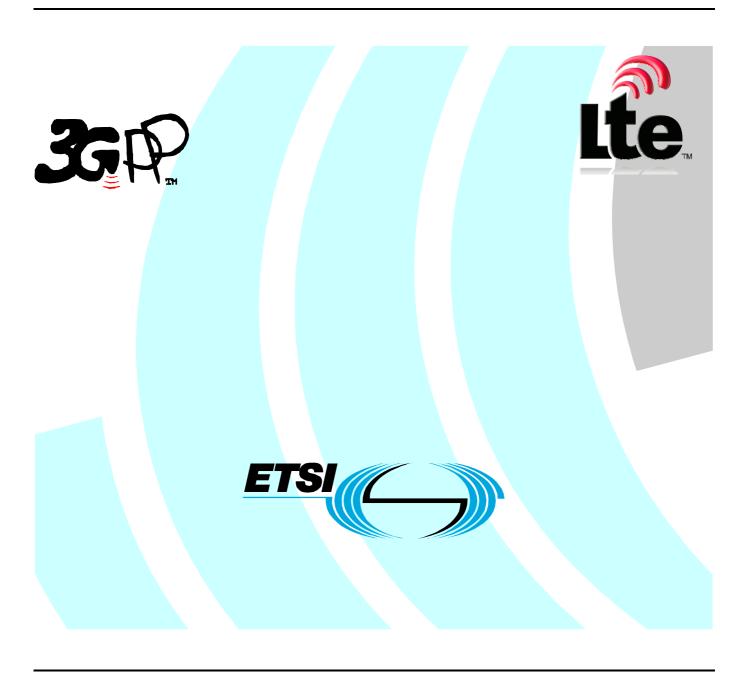
Telecommunication management;

Evolved Universal Terrestrial Radio Access Network (E-UTRAN)

Network Resource Model (NRM) Integration Reference Point (IRP):

Information Service (IS)

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- z the third digit is incremented when editorial only changes have been incorporated in the document.

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:

32.761	E-UTRAN Network Resource Model (NRM) Integration Reference Point (IRP): Requirements
32.762	E-UTRAN Network Resource Model (NRM) Integration Reference Point (IRP): Information Service (IS)
32.763	E-UTRAN Network Resource Model (NRM) Integration Reference Point (IRP): Common Object Request Broker Architecture (CORBA) Solution Set (SS)
32.765	E-UTRAN Network Resource Model (NRM) Integration Reference Point (IRP): eXtensible Markup Language (XML) file format definition

1 Scope

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

The present document specifies the protocol neutral E-UTRAN NRM IRP: Information Service (IS). It reuses relevant parts of the Generic NRM IRP: IS in 3GPP TS 32.622 [6], either by direct reuse or sub-classing, and in addition to that defines E-UTRAN specific Information Object Classes.

In order to access the information defined by this NRM, an Interface IRP such as the "Basic CM IRP" is needed (3GPP TS 32.602 [7]). However, which Interface IRP is applicable is outside the scope of the present document.

This is the Scope of 32.752 EPC

The present document specifies the protocol neutral EPC Network Resource Model IRP Information Service, through which an 'IRPAgent' (typically an Element Manager or Network Element) can communicate information to one or several 'IRPManagers' (typically Network Managers) concerning EPC resources. It reuses relevant parts of the Generic NRM in 3GPP TS 32.622 [6], either by direct reuse or sub-classing, and in addition to that defines EPC specific Information Object Classes.

In order to access the information defined by this NRM, an Interface IRP such as the "Basic CM IRP" is needed (3GPP TS 32.602 [7]). However, which Interface IRP is applicable is outside the scope of the present document.

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 23.003: "Numbering, addressing and identification".
- [4] 3GPP TS 32.300: "Telecommunication management; Configuration Management (CM); Name convention for Managed Objects".
- [5] 3GPP TS 32.600: "Telecommunication management; Configuration Management (CM); Concept and high-level requirements".
- [6] 3GPP TS 32.622: "Telecommunication management; Configuration Management (CM); Generic network resources Integration Reference Point (IRP): Network Resource Model (NRM)".
- [7] 3GPP TS 32.602: "Telecommunication management; Configuration Management (CM); Basic CM Integration Reference Point (IRP) Information Service (IS)".

[8]	3GPP TS 32.612: "Telecommunication management; Configuration Management (CM); Bulk CM Integration Reference Point (IRP): Information Service (IS)".
[9]	3GPP TS 23.401: "Technical Specification Group Services and System Aspects; General Packet Radio Service (GPRS) enhancements for Evolved Universal Terrestrial Radio Access Network (E-UTRAN) access".
[10]	3GPP TS 36.331: "Technical Specification Group Radio Access Network; Evolved Universal Terrestrial Radio Access (E-UTRA) Radio Resource Control (RRC); Protocol specification".
[11]	3GPP TS 36.300: "Technical Specification Group Radio Access Network; Evolved Universal Terrestrial Radio Access (E-UTRA) and Evolved Universal Terrestrial Radio Access Network (E-UTRAN); Overall description; Stage 2 ".
[12]	3GPP TS 36.211: 'Technical Specification Group Radio Access Network; Evolved Universal Terrestrial Radio Access (E-UTRA); Physical Channels and Modulation'
[13]	3GPP TS 36.101: 'Technical Specification Group Radio Access Network; Evolved Universal Terrestrial Radio Access (E-UTRA); User Equipment (UE) radio transmission and reception'
[14]	3GPP TS 36.104: 'Technical Specification Group Radio Access Network; Evolved Universal Terrestrial Radio Access (E_UTRA); Base Station (BS) radio transmission and reception'
[15]	3GPP TS 32.500: "Technical Specification Group Services and System Aspects; Telecommunication Management; Self-Organizing Networks (SON); Concepts and requirements"
[16]	3GPP TS 32.150: "Technical Specification Group Services and System Aspects; Telecommunication management; Integration Reference Point (IRP) Concept and definitions"
[17]	3GPP TS 21.905: "Technical Specification Group Services and System Aspects; Vocabulary for 3GPP Specifications"
[18]	3GPP TS 32.111-2: 'Telecommunication management; Fault Management; Part 2: Alarm Integration Reference Point (IRP): Information Service (IS)'
[19]	3GPP TS 23.002: 'Network Architecture'
[20]	3GPP TS 32.652: 'Telecommunication management; Configuration Management (CM); GERAN network resources Integration Reference Point (IRP); Network Resource Model (NRM)'
[21]	3GPP TS 32.642: 'Telecommunication management; Configuration Management (CM); UTRAN network resources Integration Reference Point (IRP); Network Resource Model (NRM)'
[22]	3GPP2 S.S0028-D 'OAM&P for cdma2000 (Overview, 3GPP R7 Delta Specification, 3GPP2 Network Resource Model IRP)'
[23]	3GPP TS 32.752: 'Telecommunication management; Evolved Packet Core (EPC) Network Resource Model (NRM) Integration Reference Point (IRP): Information Service (IS)'

3 Definitions and abbreviations

3.1 Definitions

For the purposes of the present document, the terms and definitions given in TS 32.150 [16], TS 32.101 [1], TS 32.102 [2] and TS 21.905 [17] and the following apply. A term defined in the present document takes precedence over the definition of the same term, if any, in TS 32.150 [16], TS 32.101 [1], TS 32.102 [2] and TS 21.905 [17], in that order.

Antenna: Within the present document an Antenna is the set of radiating elements involved in the transmission and reception of Radio Frequency energy to support the Air Interface of a E-UTRAN cell.

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 Object Class Managed Element defined in TS 32.622 [6].

eNodeB: A logical node responsible for radio transmission/reception in one or more cells to/from the User Equipment. It terminates the S1 interface towards the EPC.

3.2 Abbreviations

For the purposes of the present document, the abbreviations given in TS 32.150 [16], TS 32.101 [1], TS 32.102 [2] and TS 21.905 [17] and the following apply. An abbreviation defined in the present document takes precedence over the definition of the same abbreviation, if any, in TS 32.150 [16], TS 32.101 [1], TS 32.102 [2] and TS 21.905 [17], in that order.

DN Distinguished Name (see 3GPP TS 32.300 [4])
E-UTRA Evolved Universal Terrestrial Radio Access

E-UTRAN Evolved Universal Terrestrial Radio Access Network

ME Managed Element
MO Managed Object
NR Neighbour cell Relation
PM Performance Management

RDN Relative Distinguished Name (see 3GPP TS 32.300 [4])

4 System overview

4.1 Compliance rules

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 without requiring the IRPManager to have any knowledge of the extensions.

Given that

- rules for vendor-specific extensions remain to be fully specified, and
- many scenarios under which IRPManager and IRPAgent interwork may exist,

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

5 Modelling approach

The modelling approach adopted and used in this IRP is described in TS 32.622 [6].

6 Information Object Classes (IOCs)

6.1 Information entities imported and local labels

Local label
administrativeState
availabilityStatus
operationalState

6.2 Class diagram

6.2.1 Attributes and relationships

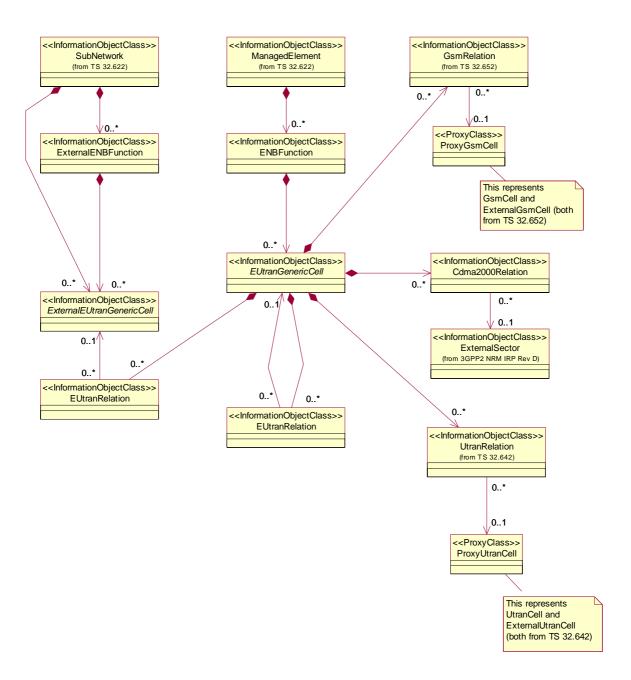


Figure 6.2.1.1: Cell view of EUTRAN NRM

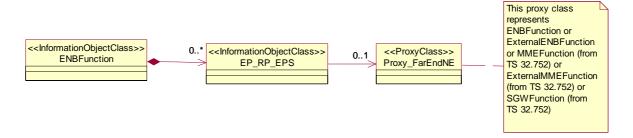


Figure 6.2.1.2: Transport view of EUTRAN NRM

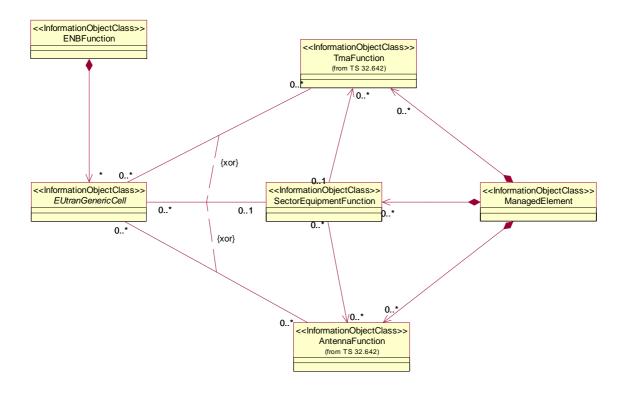


Figure 6.2.1.3: Radio equipment view of EUTRAN NRM

Note 1: Either the EUtranGenericCell has a relation to SectorEquipmentFunction, or to AntennaFunction/TMAFunction.

6.2.2 Inheritance

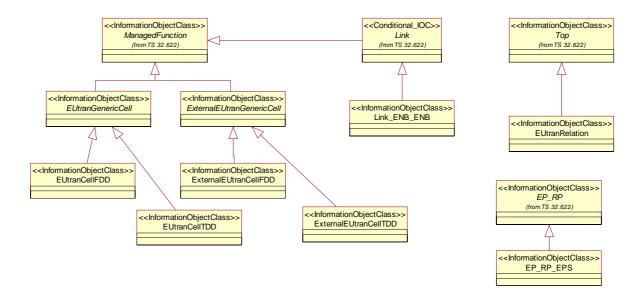


Figure 6.2.2.1: E-UTRAN NRM Inheritance Hierarchy

6.3 Information Object Class (IOC) definitions

6.3.1 ENBFunction

6.3.1.1 Definition

This IOC represents eNB functionality. For more information about the eNB, see 3GPP TS 23.002 [19].

6.3.1.2 Attributes

Attribute name	Support Qualifier	Read Qualifier	Write Qualifier
x2BlackList	CM	M	М
x2WhiteList	CM	M	М
x2HOBlackList	CM	M	М
x2IpAddressList	O	M	-

6.3.1.3 Attribute Constraints

Name	Definition
x2BlackList Support Qualifier	The condition is 'ANR function is supported'.
x2WhiteList Support Qualifier	The condition is 'ANR function is supported'.
x2HOBlackList Support Qualifier	The condition is 'ANR function is supported'.

6.3.1.4 Notification

Name	Qualifier	Notes
notifyAckStateChanged	See Alarm IRP (3GPP TS 32.111-2 [18])	
notifyAttributeValueChange	O	
notifyChangedAlarm	See Alarm IRP (3GPP TS 32.111-2 [18])	
notifyClearedAlarm	See Alarm IRP (3GPP TS 32.111-2 [18])	
notifyNewAlarm	See Alarm IRP (3GPP TS 32.111-2 [18])	
notifyObjectCreation	O	
notifyObjectDeletion	O	
notifyComments	See Alarm IRP (3GPP TS 32.111-2 [18])	
notifyAlarmListRebuilt	See Alarm IRP (3GPP TS 32.111-2 [18])	
notifyPotentialFaultyAlarmList	See Alarm IRP (3GPP TS 32.111-2 [18])	

6.3.2 ExternalENBFunction

6.3.2.1 Definition

This IOC represents an external eNB functionality. For more information about the eNB, see 3GPP TS 23.002 [19].

6.3.2.2 Attributes

Attribute name	Support Qualifier	Read Qualifier	Write Qualifier

6.3.2.3 Attribute Constraints

6.3.2.4 Notification

6.3.3 EUtranGenericCell

6.3.3.1 Definition

This abstract IOC represents the common properties of an E-UTRAN generic cell. For more information about cells, see 3GPP TS 23.401 [9].

6.3.3.2 Attributes

Attribute name	Support Qualifier	Read Qualifier	Write Qualifier
id	M	M	-
cellIdentity	M	M	M
<mark>cellType</mark>	M	M	
plmnIdList	M	М	M
tac	M	M	M
pci	M	M	CM
pciList	CM	M	M
maximumTransmissionPower	M	M	-
partOfSectorPower	CM	М	M

Attribute Name	Support Qualifier	Read Qualifier	Write Qualifier
operationalState	0	M	_
administrativeState	0	М	M
availabilityStatus	0	M	-
NOTE: No state or status propagation shall be implied.			

Editor"s notes:

1. For different cellType, it may need to model accordingly if there is different attributes found.

2. Yellow highlight means FFS.

6.3.3.3 Attribute constraints

Name	Definition
pci CM Write	Centralized PCI assignment (see TS 32.500, ref [15] subclause 6.1.6) is
Qualifier	supported.
pciList CM Support	Distributed PCI assignment (see TS 32.500, ref [15] subclause 6.1.6) is
Qualifier	supported.
partOfSectorPower	The IOC SectorEquipmentFunction is used.
CM support qualifier	

6.3.3.4 Notification

Name	Qualifier	Notes
notifyAckStateChanged	See Alarm IRP (3GPP TS 32.111-2 [18])	
notifyAttributeValueChange	O	
notifyChangedAlarm	See Alarm IRP (3GPP TS 32.111-2 [18])	
notifyClearedAlarm	See Alarm IRP (3GPP TS 32.111-2 [18])	
notifyNewAlarm	See Alarm IRP (3GPP TS 32.111-2 [18])	
notifyObjectCreation	O	
notifyObjectDeletion	O	
notifyStateChange	0	
notifyComments	See Alarm IRP (3GPP TS 32.111-2 [18])	
notifyAlarmListRebuilt	See Alarm IRP (3GPP TS 32.111-2 [18])	
notifyPotentialFaultyAlarmList	See Alarm IRP (3GPP TS 32.111-2 [18])	

6.3.4 ExternalEUtranGenericCell

6.3.4.1 Definition

This abstract IOC represents the properties of an EUTRAN generic cell controlled by another IRPAgent. This IOC contains necessary attributes for inter-system and intra-system handover. It also contains a subset of the attributes of related IOCs controlled by another IRPAgent. The way to maintain consistency between the attribute values of these IOCs is outside the scope of the present document.

6.3.4.2 Attributes

Attribute name	Support Qualifier	Read Qualifier	Write Qualifier
id	M	M	-
pci	M	M	M
cellIdentity	M	M	M

Editor"s note: Yellowed text is not considered agreed.

6.3.4.3 Attribute Constraints

6.3.4.4 Notifications

Name	Qualifier	Notes
notifyAttributeValueChange	0	
notifyObjectCreation	0	
notifyObjectDeletion	0	

6.3.5 EUtranCellFDD

6.3.5.1 Definition

This IOC represents the properties of EUTRAN FDD cell.

6.3.5.2 Attributes

Attribute name	Support Qualifier	Read Qualifier	Write Qualifier
earfcnDl	M	M	M
earfcnUl	M	M	M

6.3.6 ExternalEUtranCellFDD

6.3.6.1 Definition

This IOC represents the common properties of external EUTRAN FDD cell.

6.3.6.2 Attributes

Table 6.3.5.2.1: Attributes of ExternalEUtranCellFDD

Attribute name	Support Qualifier	Read Qualifier	Write Qualifier
earfcnDl	M	M	M
earfcnUl	M	M	M

6.3.7 EUtranCellTDD

6.3.7.1 Definition

This IOC represents the properties of EUTRAN cell TDD.

6.3.7.2 Attributes

Note: Attributes are FFS:

6.3.8 ExternalEUtranCellTDD

6.3.8.1 Definition

This IOC represents the common properties of external EUTRAN cell TDD.

6.3.8.2 Attributes

Note: Attributes are FFS:

6.3.9 EUtranRelation

6.3.9.1 Definition

This IOC represents a NR from one EUtranGenericCell instance to another EUtranGenericCell or ExternalEUtranGenericCell instance. NRs are directional.

6.3.9.2 Attributes

Attribute name	Support Qualifier	Read Qualifier	Write Qualifier
tCI	M	M	M
isRemoveAllowed	CM	M	M
isHOAllowed	CM	M	M

6.3.9.3 Attribute Constraints

Name	Definition
isRemoveAllowed Support Qualifier	The condition is 'ANR function is supported'.
isHOAllowed Support Qualifier	The condition is 'ANR function is supported'.

6.3.10 Link_ENB_ENB

6.3.10.1 Definition

This IOC represents the link between two ENBFunction.

6.3.10.2 Attributes

Attribute name	Support Qualifier	Read Qualifier	Write Qualifier

6.3.10.3 Attribute Constraints

Name	Definition
whoSetThisUp Support Qualifier	The condition is 'ANR function is supported'.

6.3.11 EP_RP_EPS

6.3.11.1 Definition

This IOC represents a generic end point for the EUTRAN system.

6.3.11.2 Attributes

Attribute name	Support Qualifier	Read Qualifier	Write Qualifier
farEndNelpAddr	0	M	CM

6.3.11.3 Attribute constraints

Name	Definition		
farEndNeIpAddr"s	When the EP_RP_EPS object belongs to the same Domain Manager		
write qualifier	as the eNB pointed by the farEndNeIpAddr attribute, the Write		
	Qualifier of farEndNelpAddr attribute is not needed.		

6.3.11.3 Notifications

The common notifications defined in subclause 6.1.6 of 3GPP TS 32.622[6] are valid for this IOC, without exceptions or additions.

6.3.12 SectorEquipmentFunction

6.3.12.1 Definition

This IOC represents a set of cells within a geographical area that has common functions relating to AntennaFunction, TMAFunction and supporting equipment, such as power amplifier.

6.3.12.2 Attributes

Attribute name	Support Qualifier	Read Qualifier	Write Qualifier
fqBand	M	M	-
confOutputPower	M	М	М

6.3.13 Cdma2000Relation

6.3.13.1 Definition

This IOC represents a NR from one EUtranGenericCell to a CDMA2000 sector. NRs are directional.

See 3GPP2 TS S.S0028 [22]

6.3.13.2 Attributes

Attribute name	Support Qualifier	Read Qualifier	Write Qualifier

6.3.14 ProxyGsmCell

6.3.14.1 Definition

This definition is a Proxy Class stereotype, proxying either a GsmCell or an ExternalGsmCell. See TS 32.652 [20].

6.3.15 ProxyUtranCell

6.3.15.1 Definition

This definition is a Proxy Class stereotype, proxying either an UtranCell or an ExternalUtranCell. See TS 32.642 [21].

6.4 Information relationship definitions

Editor"s note: Information relationship definitions is FFS.

6.5 Information attribute definitions

6.5.1 Definition and legal values

Table 6.5.1.1 defines the attributes that are present in several Information Object Classes (IOCs) of the present document.

Table 6.5.1.1: Attributes definitions and legal values

Attribute Name	Definition	Legal Values
administrative	See Import Table.	_
State		
availabilitySt	See Import Table.	
atus		
cellIdentity	Unambiguously identify a cell within a PLMN.	Refer to TS 36.331[10]
cellType	Cell type for management	Enumerated (femto, pico, macro).
confOutputPow	It defines the allowed total power to use for all cells	
er	together in this sector. It may be set by the operator	
	and/or limited by HW limitation or licensed power, e.g.: 20, 40, 60, 80,120 watts	
	e.g., 20, 40, 60, 60, 120 watts	
earfcnul	Specifies the channel number for the central UL	See EARFCN in TS 36.101 [13]
Carronar	frequency. The mapping from channel number to	subclause 5.4.4.
	physical frequency is described in 3GPP	Cabolades of It It
	specification TS 36.101 [13] subclause 5.4.3.	
earfcndl	Specifies the channel number for the central DL	See EARFCN in TS 36.101 [13]
	frequency. The mapping from channel number to	subclause 5.4.4.
	physical frequency is described in 3GPP	
	specification TS 36.101 [13] subclause 5.4.3.	
farEndNeIpAddr	The IP address(s) of the far end network entity to	
	which the reference point is related.	
	This is an IDv4 or an IDvC address	
f and and	This is an IPv4 or an IPv6 address.	Conception 5 Table 5 2 4 IS LITEA
fqBand	This is the frequency band supported by the hardware associated with the	See section 5 Table 5.2-1 'E-UTRA frequency band' of TS 36.104 [14].
	SectorEquipmentFunction. The earfcnDl and	Other legal values would be applicable
	earfcnUl ¹ of cells associated with the	for other technologies such as for
		UTRA.
	SectorEquipmentFunction must be assigned	
isRemoveAllowe	with value within this fqBand value.	Vac no
d (see note 1)	This indicates if the subject EUtranRelation can	yes, no
d (see note 1)	be removed (deleted) or not.	
	If "yes", the subject EUtranRelation instance can	
	be removed (deleted).	
	bo romovou (dolotou).	
	If "no", the subject EUtranRelation instance shall not	
	be removed (deleted) by any entity but an	
	IRPManager.	
isHOAllowed	This indicates if HO is allowed or prohibited.	yes, no
(see note 1)	If "vee", benefician is allowed forces and a	
	If "yes", handover is allowed from source cell to	
	target cell. The source cell is identified by the name-containing EUtranGenericCell of the	
	EUtranRelation that has the isHOAllowed. The	
	target cell is referenced by the EutranRelation	
	that has this isHOAllowed.	
	that has the forter moved.	
	If "no", handover shall not be allowed.	

¹ These two attributes are not discussed here but is defined in E-UTRAN NRM IRP draft currently.

maximumTransmi ssionPower	This is the maximum possible for all downlink channels, used simultaneously in a cell, added together.	
operationalSta te	See Import Table.	
partOfSectorPo wer	This is the requested part (i.e. %) of the total radio power available to the SectorEquipmentFunction. The requested % power should be allocated to the cell.	0:100
pci	This holds the Physical Cell Identity (PCI) of the cell (for both Centralized and Distributed PCI assignment cases). In the case of Centralized PCI assignment, see TS	See TS 36.211 [12] subclause 6.11 for legal values of pci.
	36.300, [11] subclause 22.3.5, IRPManager signals a specific value by writing this attribute.	
pciList (Editor"s Note 1, Editor"s Note 2)	This holds a list of physical cell identities that can be assigned to the pci attribute by eNB.	See TS 36.211 [12] subclause 6.11 for legal values of pci. The number of pci in the list is 1 to 504.
	This attribute shall be supported if and only if the Distributed PCI Assignment is supported. See TS 32.500, ref [15] subclause 6.1.6.	
plmnldList	List of unique identities for PLMN. Note: A cell can broadcast up to 6 PLMN-id's. This is to support the case that one cell can be used by up to 6 operators" core networks. See TS 36.331 [10] section 6.2.2: SystemInformationBlockType1/cellAccessRelatedInf ormation/plmn-IdentityList is a SEQUENCE (SIZE (16))	
tac	Common Tracking Area Code for the PLMNs. The identity used to identify tracking areas.	 a) It is the Tracking Area Code (TAC). b) A cell can only broadcast one TAC. See TS 36.300 [11], section 10.1.7 (PLMNID and TAC relation).
tCI	This is the Target Cell Identifier. It consists of E- UTRAN Cell Global Identifier (ECGI) and Physical Cell Identifier (PCI) of the target cell. See Ref [??].	
	The EUtranRelation.tCI identifies the target	
	cell from the perspective of the EUtranGenericCell, the name-containing instance of the subject EUtranRelation instance.	
x2BlackList	This is a list of DNs of ENBFunction. If the target node DN is a member of the source node"s ENBFunction.x2BlackList, the source node is:	
	 Prohibited from sending X2 connection request to target node; Forced to tear down established X2 connection to target node Not allowed to accept incoming X2 connection request from target node. 	
	The same DN may appear here and in ENBFunction.x2WhiteList. In such case, the DN in x2WhiteList shall be treated as if it is absent.	
x2lpAddressList	Represents one or more IP addresses used by eNBFunction for the X2 Interface	One or more IPv4 or IPv6 addresses

x2WhiteList	This is a list of DNs of ENBFunction. The ENBFunction.x2WhiteList identifies a list of neighbour ENBFunction with whom the subject ENBFunction is allowed to initiate an X2 connection request. The same DN may appear here and in ENBFunction.x2BlackList. In such case, the DN here shall be treated as if it is absent.	
x2HOBlackList	This is a list of DNs of ENBFunction. The ENBFunction.x2HOBlackList identifies a list of neighbour ENBFunction with whom the subject ENBFunction is prohibited to use X2 interface for HOs even if the X2 interface exists between them.	

Editor"s Note 1: The name of this attribute may need to be changed to more closely reflect the meaning and usage of this attribute.

Editor"s Note 2: How eNB makes use of pciList to affect the value of pci is within the scope of RAN3 specification and is outside of the scope of this document

Note 1: Attributes isRemoveAllowed and isHOAllowed each has 2 legal values, allow (A) and prohibited (P). The two attributes are semantically equivalent to one attribute with 4 legal values such as

• hOAllow; hOProhibited; hOWhiteListed; hOBlackListed;

where

- hOAllow == isRemoveAllowed is A and isHOAllowed is A;
- hOProhibited == isRemoveAllowed is A and isHOAllowed is P;
- hOWhiteListed == isRemoveAllowed is P and isHOAllowed is A;
- hOBlackListed == isRemoveAllowed is P and isHOAllowed is P.

Therefore, the choice of an option is FFS.

6.5.2 Constraints

None.

6.6 Common Notifications

6.7 System State Model

Annex A (informative): Change history

Change history								
Date	TSG#	TSG Doc.	CR	Rev	Subject/Comment	Cat	Old	New
Dec 2008					Presentation to SA for information			1.0.0
Mar 2009	SP-43	SP-090074			Presentation to SA for approval		2.0.0	8.0.0

History

Document history				
V8.0.0	April 2009	Publication		