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Technical Specification

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Telecommunication management;

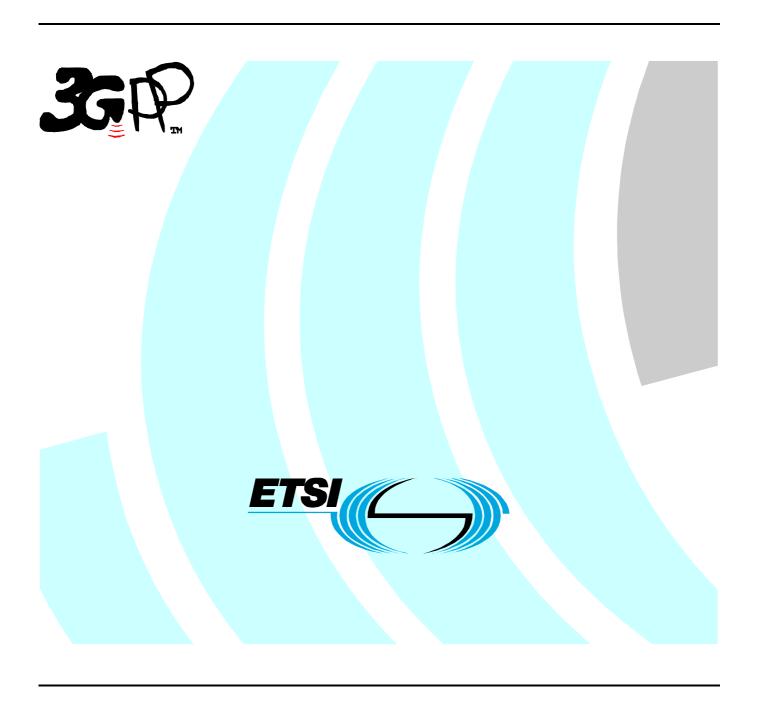
Configuration Management (CM);

UTRAN network resources Integration Reference Point (IRP):

Common Management Information Protocol (CMIP)

Solution Set (SS)

(3GPP TS 32.644 version 6.2.0 Release 6)



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Foreword

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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:

32.641:	"Configuration Management (CM); UTRAN network resources Integration Reference Point (IRP): Requirements".
32.642:	"Configuration Management (CM); UTRAN network resources Integration Reference Point (IRP): Network Resource Model (NRM)".
32.643:	"Configuration Management (CM); UTRAN network resources Integration Reference Point (IRP): Common Object Request Broker Architecture (CORBA) Solution Set (SS)".
32.644:	"Configuration Management (CM); UTRAN network resources Integration Reference Point (IRP): Common Management Information Protocol (CMIP) Solution Set (SS)".
32.645:	"Configuration Management (CM); UTRAN network resources Integration Reference Point (IRP): Bulk CM eXtensible Markup Language (XML) file format definition

The interface Itf-N, defined in 3GPP TS 32.102 [2], is built up by a number of Integration Reference Points (IRPs) and a related Name Convention, which realise the functional capabilities over this interface. The basic structure of the IRPs is defined in 3GPP TS 32.101 [1] and 3GPP TS 32.102 [2].

1 Scope

The present document specifies the Common Management Information Protocol (CMIP) Solution Set (SS) for the UTRAN Network Resource Integration Reference Point (IRP): Network Resource Model defined in 3GPP TS 32.642 [4].

In detail:

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

This Solution Set specification is related to 3GPP TS 32.642 V6.4.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.
- For a non-specific reference, the latest version applies. In the case of a reference to a 3GPP document (including a GSM document), a non-specific reference implicitly refers to the latest version of that document *in the same Release as the present document*.
- [1] 3GPP TS 32.101: "Telecommunication management; Principles and high level requirements".
 [2] 3GPP TS 32.102: "Telecommunication management; Architecture".
- [3] 3GPP TS 32.304: "Telecommunication management; Configuration Management (CM); Notification Integration Reference Point (IRP): Common Management Information Protocol (CMIP) Solution Set (SS)".
- [4] 3GPP TS 32.642: "Telecommunication management; Configuration Management (CM); UTRAN network resources Integration Reference Point (IRP): Network Resource Model (NRM)".
- [5] ITU-T Recommendation X.710 (1991): "Common Management Information Service Definition for CCITT Applications".
- [6] ITU-T Recommendation X.721 (02/92): "Information Technology Open Systems Interconnection Structure of Management Information: Definition of Management Information".
- [7] ITU-T Recommendation X.730 (01/92): "Information Technology Open Systems Interconnection Systems Management: Object Management Function".
- [8] ITU-T Recommendation X.733 (02/92): "Information Technology Open Systems Interconnection Alarm Reporting Function".
- [9] ITU-T Recommendation M.3100 (07/95): "Maintenance Telecommunications Management Network Generic Network Information Model".
- [10] 3GPP TS 32.600: "Telecommunication management; Configuration Management (CM); Concept and high-level requirements".

3 Definitions, symbols and abbreviations

3.1 Definitions

For the purposes of the present document, the terms and definitions given in 3GPP TS 32.600 [10] and 3GPP TS 32.642 [4] apply.

3.2 Abbreviations

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

CMIP Common Management Information Protocol

DN Distinguished Name

GDMO Guidelines for the Definition of Managed Objects

IDL Interface Definition Language

IEC International Electro-technical Commission
ISO International Standards Organization

Mcps Mega-chips per second

MIB Management Information Base
MIM Management Information Model

MIT Management Information Tree (or Naming Tree)

MOC Managed Object Class MOI Managed Object Instance

NE Network Element NR Network Resource

NRM Network Resource Model

TMN Telecommunications Management Network UTRAN Universal Terrestrial Radio Access Network

4 Basic aspects

4.1 Architectural aspects

A technology independent UTRAN network resource model is defined in 3GPP TS 32.642 [4] for 3G networks. This document provides an implementation of this UTRAN network resource model by using CMIP technology.

4.2 Mapping

The semantic of the UTRAN Network Resource Model is defined in 3GPP TS 32.642 [4]. The specification of the information object classes defined there is independent of any implementation technology and protocol. This clause maps these technology and protocol independent definitions onto the equivalencies of the CMIP Solution Set of the UTRAN Network Resource IRP.

4.2.1 Mapping of Information Object Classes

The following table maps the information object classes defined in the UTRAN Network Resource Model onto the equivalent MOCs of the CMIP Solution Set.

IS IOC **CMIP SS MOC RncFunction** rncFunctionR55 nodeBFunction **NodeBFunction** UtranCell utranCellR0610 **lubLink** iubLinkR0600 UtranRelation utranRelationR0600 ExternalUtranCell externalUtranCellR0600 AntennaFunction antennaFunctionR0610 ExternalRncFunction externalRncFunction

Table: Mapping of IOCs

4.2.2 Mapping of Information Object Class Attributes

This clause depicts the mapping of the attributes defined in 3GPP TS 32.642 [4] on the corresponding attributes of the CMIP Solution Set.

4.2.2.1 Attribute Mapping of the IOC *RncFunction*

IS Attribute	CMIP SS Attribute	Support Qualifier	Read Qualifier	Write Qualifier
rncFunctionId	rncFunctionId	М	М	
userLabel	userLabel (ITU-T Rec. M.3100 [9])	М	М	M
mcc	mcc	М	М	M
mnc	mnc	М	М	М
rncld	rncldR55	M	М	M

4.2.2.2 Attribute Mapping of the IOC *NodeBFunction*

IS Attribute	CMIP SS Attribute	Support Qualifier	Read Qualifier	Write Qualifier
nodeBFunctionId	nodeBFunctionId	M	М	
userLabel	userLabel (ITU-T Rec. M.3100 [9])	M	М	M
nodeBFunction-lubLink	NodeBFunction2iubLink	M	М	

4.2.2.3 Attribute Mapping of the IOC *UtranCell*

IS Attribute	CMIP SS Attribute	Support Qualifier	Read Qualifier	Write Qualifier
utranCellId	utranCellId	М	М	
userLabel	userLabel (ITU-T Rec. M.3100 [9])	М	М	M
cld	cldR55	М	М	M
localCellId	localCellIdR55	М	М	M
uarfcnDl	uarfcnDl	0	М	M
uarfcnUl	uarfcnUl	0	М	M
primaryScramblingCode	primaryScramblingCode	0	М	M
primaryCpichPower	primaryCpichPower	0	М	M
retAntennaFunctionList	retAntennaFunctionListR0610	0	М	M
maximumTransmissionPower	maximumTransmissionPower	М	М	М
primarySchPower	primarySchPower	0	М	M
secondarySchPower	secondarySchPower	0	M	М
bchPower	bchPower	0	М	M
cellMode	cellMode	М	М	
uarfcn	uarfcn	0	М	M
cellParameterId	cellParameterId	0	М	M
primaryCcpchPower	primaryCcpchPower	0	М	M
dwPchPower	dwPchPower	0	М	M
timeSlotList	timeSlotList	0	М	M
schPower	schPower	0	М	M
lac	lac	М	М	M
rac	rac	М	М	M
sac	sac	М	М	M
uraList	uraList	М	М	M
utranCell-lubLink	utranCell2iubLink	М	М	М
operationalState	operationalState	0	М	

4.2.2.4 Attribute Mapping of the IOC *lubLink*

IS Attribute	CMIP SS Attribute	Support Qualifier	Read Qualifier	Write Qualifier
iubLinkld	iubLinkld	M	М	
userLabel	userLabel (ITU-T Rec. M.3100 [9])	M	М	M
iubLink-UtranCell	iubLink2utranCell	M	М	М
iubLink-NodeBFunction	iubLink2nodeBFunction	M	М	
iubLink-aTMChannelTerminationPoint	iubLink2aTMChannelTerminationPoint	M	M	

4.2.2.5 Attribute Mapping of the IOC *UtranRelation*

IS Attribute	CMIP SS Attribute	Support Qualifier	Read Qualifier	Write Qualifier
utranRelationId	utranRelationId	М	М	
cellMode	cellMode	М	M	M
adjacentCell	adjacentCell	М	М	
uarfcnUl	uarfcnUl	0	М	
uarfcnDl	uarfcnDl	0	М	
primaryScramblingCode	primaryScramblingCode	0	М	
primaryCpichPower	primaryCpichPower	0	М	
lac	lac	0	М	
uarfcn	uarfcn	0	M	
cellParameterId	cellParameterId	0	М	
primaryCcpchPower	primaryCcpchPower	0	М	

4.2.2.6 Attribute Mapping of the IOC *ExternalUtranCell*

IS Attribute	CMIP SS Attribute	Support Qualifier	Read Qualifier	Write Qualifier
externalUtranCellId	externalUtranCellId	М	M	
userLabel	userLabel	М	М	M
cld	cldR55	М	М	M
mcc	mcc	М	М	M
mnc	mnc	М	М	M
rncld	rncldR55	М	М	M
cellMode	cellMode	М	М	
uarfcnUl	uarfcnUl	0	М	M
uarfcnDl	uarfcnDl	0	М	M
primaryScramblingCode	primaryScramblingCode	0	М	M
primaryCpichPower	primaryCpichPower	0	М	M
uarfcn	uarfcn	0	М	M
cellParameterId	cellParameterId	0	М	M
primaryCcpchPower	primaryCcpchPower	0	М	M
lac	lac	М	М	М
rac	rac	М	М	М
controllingRnc	controllingRnc	0	М	

4.2.2.7 Attribute Mapping of the IOC *AntennaFunction*

IS Attribute	CMIP SS Attribute	Support Qualifier	Read Qualifier	Write Qualifier
antennaFunctionId	antennaFunctionIdR0610	0	М	
userLabel	userLabel (ITU-T Rec. M.3100 [9])	0	М	M
retUtranCellList	retUtranCellListR0610	0	М	M
retTiltValue	retTiltValueR0610	0	М	M
compassDirection	compassDirectionR0610	0	М	M
maxTiltValue	maxTiltValueR0610	0	М	M
minTiltValue	minTiltValueR0610	0	М	M
mechanicalOffset	mechanicalOffsetR0610	0	М	M
retGroupName	retGroupNameR0610	0	М	М
height	heightR0610	0	М	M

4.2.2.8 Attribute Mapping of the IOC *ExternalRncFunction*

IS Attribute	CMIP SS Attribute	Support Qualifier	Read Qualifier	Write Qualifier
externalRncFunctionId	externalRncFunctionId	M	M	
userLabel	userLabel	M	M	М
mcc	mcc	M	M	М
mnc	mnc	M	M	М
rncld	rncldR55	M	M	М
controlledCellList	controlledCellList	0	M	

4.2.3 Mapping of Name Containments

IS Name Containment	CMIP SS Name Binding
rncFunction-managedElement	rncFunctionR55-managedElement
nodeBFunction-managedElement	nodeBFunction-managedElement
utranCell-rncFunction	utranCellR0610-rncFunctionR55
utranRelation-utranCell	utranRelationR0600-utranCellR0610
externalUtranCell-subNetwork	externalUtranCellR0620-subNetworkR60
iubLink-rncFunction	iubLink-rncFunctionR55
gsmRelation-utranCell	gsmRelation-utranCellR0610
antennaFunction-managedElement	antennaFunctionR0610-managedElement
externalRncFunction-subNetwork	externalRncFunction-subNetworkR60

-- 5 GDMO Definitions

- --Please do not remove the "—" in front of the headline numbering, as it is the CMIP code
- --for a comment. This way the whole chapter can be put directly into a compiler.

-- 5.1 Managed Object Classes

-- 5.1.1 rncFunction

rncFunctionR55 MANAGED OBJECT CLASS

DERIVED FROM

"3GPP TS 32.624": managedFunction;

CHARACTERIZED BY

rncFunctionBasicPackage,

rncFunctionHandoverPackageR55,

"3GPP TS 32.111-4": x721AlarmNotificationsPackage;

CONDITIONAL PACKAGES

"Rec. M.3100: 1995":createDeleteNotificationsPackage

PRESENT IF

"the objectCreation and the objectDeletion notifications defined in

ITU-T Rec. X.721 are supported by an instance of this class.",

"Rec. M.3100: 1995":attributeValueChangeNotificationPackage

PRESENT IF

"the attributeValueChange notification defined in ITU-T Rec. X.721

is supported by an instance of this class.";

REGISTERED AS {ts32-644ObjectClass 8};

-- 5.1.2 utranCell

utranCellR0610 MANAGED OBJECT CLASS

DERIVED FROM

"3GPP TS 32.624": managedFunction;

CHARACTERIZED BY

utranCellBasicPackage,

utranCellHandoverPackageR0600,

utranCellAssociationPackage,

"3GPP TS 32.111-4": x721AlarmNotificationsPackage;

CONDITIONAL PACKAGES

utranFDDCellHandoverPackage

PRESENT IF

"FDD handover attributes are supported by an instance of this class.",

utran1-28McpsTDDCellHandoverPackage

PRESENT IF

"1.28 Mcps TDD handover attributes are supported by an instance of this class.",

utran3-84McpsTDDCellHandoverPackage

PRESENT IF

"3.84 Mcps TDD handover attributes are supported by an instance of this class.",

"Rec. M.3100: 1995":createDeleteNotificationsPackage

PRESENT IF

"the objectCreation and the objectDeletion notifications defined in

ITU-T Rec. X.721 are supported by an instance of this class.",

"Rec. M.3100: 1995":attributeValueChangeNotificationPackage

PRESENT IF

"the attributeValueChange notification defined in ITU-T Rec. X.721

is supported by an instance of this class.",

"Rec. M.3100: 1995":stateChangeNotificationPackage

PRESENT IF

"the stateChange notification defined in ITU-T Rec. X.721

is supported by an instance of this class",

"3GPP TS 32.674": operationalStateAttributePackage

PRESENT IF

"instances of this MOC support the operationalState attribute.",

utranCellRetPackageR0610

PRESENT IF

"instances of this MOC support the retAntennaFunctionList attribute.";

REGISTERED AS {ts32-644ObjectClass 20610};

-- 5.1.3 utranRelation

utranRelationR0600 MANAGED OBJECT CLASS

DERIVED FROM

"Rec. X.721 | ISO/IEC 10165-2: 1992":top;

CHARACTERIZED BY

utranRelationBasicPackageR0600,

utranRelationAssociationPackage;

CONDITIONAL PACKAGES

utranRelationFDDHandoverPackage

PRESENT IF

"FDD handover attributes are supported by an instance of this class.", utranRelationTDDHandoverPackage

PRESENT IF

"TDD handover attributes are supported by an instance of this class.",

"Rec. M.3100: 1995": createDeleteNotificationsPackage

PRESENT IF

"The objectCreation and the objectDeletion notifications defined in

ITU-T Rec. X.721 are supported by an instance of this class.",

"Rec. M.3100: 1995": attributeValueChangeNotificationPackage

PRESENT IF

"The attributeValueChange notification defined in ITU-T Rec. X.721 is supported by an instance of this class.";

REGISTERED AS {ts32-644ObjectClass 30600};

-- 5.1.4 externalUtranCell

externalUtranCellR0620 MANAGED OBJECT CLASS

DERIVED FROM

"3GPP TS 32.624": managedFunction;

CHARACTERIZED BY

externalUtranCellPackageR0600;

CONDITIONAL PACKAGES

external Utran FDD Cell Handover Package

PRESENT IF

"FDD handover attributes are supported by an instance of this class.", externalUtranTDDCellHandoverPackage

PRESENT IF

" TDD handover attributes are supported by an instance of this class.", externalUtranCellAssociationPackage

PRESENT IF

"an instance supports it.",

"Rec. M.3100: 1995":createDeleteNotificationsPackage

PRESENT IF

"the objectCreation and the objectDeletion notifications defined in

ITU-T Rec. X.721 are supported by an instance of this class.",

"Rec. M.3100: 1995":attributeValueChangeNotificationPackage

PRESENT IF

"the attributeValueChange notification defined in ITU-T Rec. X.721 is supported by an instance of this class.";

REGISTERED AS {ts32-644ObjectClass 40620};

-- 5.1.5 iubLink

iubLinkR0600 MANAGED OBJECT CLASS

DERIVED FROM

"3GPP TS 32.624": managedFunction;

CHARACTERIZED BY

iubLinkBasicPackage,

iubLinkAssociationPackage,

"3GPP TS 32.111-4": x721AlarmNotificationsPackage;

CONDITIONAL PACKAGES

iub Link 2a TM Channel Termination Point Association Package

PRESENT IF

"the Transport Network NRM IRP (TS 32.714) is supported",

"Rec. M.3100: 1995":createDeleteNotificationsPackage

PRESENT IF

"the objectCreation and the objectDeletion notifications defined in

ITU-T Rec. X.721 are supported by an instance of this class.",

"Rec. M.3100: 1995":attributeValueChangeNotificationPackage

PRESENT IF

"the attributeValueChange notification defined in ITU-T Rec. X.721 is supported by an instance of this class.";

REGISTERED AS {ts32-644ObjectClass 50600};

-- 5.1.6 nodeBFunction

nodeBFunction MANAGED OBJECT CLASS

DERIVED FROM

"3GPP TS 32.624": managedFunction;

CHARACTERIZED BY

nodeBFunctionBasicPackage,

nodeBFunctionAssociationPackage,

"3GPP TS 32.111-4": x721AlarmNotificationsPackage;

CONDITIONAL PACKAGES

"Rec. M.3100: 1995":createDeleteNotificationsPackage

PRESENT IF

"the objectCreation and the objectDeletion notifications defined in

ITU-T Rec. X.721 are supported by an instance of this class.",

"Rec. M.3100: 1995":attributeValueChangeNotificationPackage

PRESENT IF

"the attributeValueChange notification defined in ITU-T Rec. X.721

is supported by an instance of this class.";

REGISTERED AS {ts32-644ObjectClass 6};

-- 5.1.7 antennaFunction

antennaFunctionR0610 MANAGED OBJECT CLASS

DERIVED FROM

"3GPP TS 32.624": managedFunction;

CHARACTERIZED BY

antenna Function Basic Package R0610,

"3GPP TS 32.111-4": x721AlarmNotificationsPackage;

CONDITIONAL PACKAGES

"Rec. M.3100: 1995":createDeleteNotificationsPackage

PRESENT IF

"the objectCreation and the objectDeletion notifications defined in

ITU-T Rec. X.721 are supported by an instance of this class.",

"Rec. M.3100: 1995":attributeValueChangeNotificationPackage

PRESENT IF

"the attributeValueChange notification defined in ITU-T Rec. X.721

is supported by an instance of this class.", antennaFunctionOptionalPackageR0610

PRESENT IF

"the optional attributes are supported by an instance of this class.";

REGISTERED AS {ts32-644ObjectClass 70610};

-- 5.1.8 externalRncFunction

externalRncFunction MANAGED OBJECT CLASS

DERIVED FROM

"3GPP TS 32.624": managedFunction;

CHARACTERIZED BY

externalRncFunctionBasicPackage;

CONDITIONAL PACKAGES

"Rec. M.3100: 1995":createDeleteNotificationsPackage

PRESENT IF

"the objectCreation and the objectDeletion notifications defined in

ITU-T Rec. X.721 are supported by an instance of this class.",

"Rec. M.3100: 1995":attributeValueChangeNotificationPackage

PRESENT IF

"the attributeValueChange notification defined in ITU-T Rec. X.721

is supported by an instance of this class.",

external Rnc Function Association Package

PRESENT IF

"an instance supports it";

REGISTERED AS {ts32-644ObjectClass 80620};

-- 5.2 Packages

-- 5.2.1 rncFunctionHandoverPackage

rncFunctionHandoverPackageR55 PACKAGE

BEHAVIOUR

rncFunction Handover Package R55 Behaviour;

ATTRIBUTES

mcc GET-REPLACE,

mnc GET-REPLACE,

rncIdR55 GET-REPLACE;

REGISTERED AS {ts32-644Package 14};

rncFunctionHandoverPackageR55Behaviour BEHAVIOUR

DEFINED AS

"This package contains all new attributes defined for UTRAN handover management.

These attributes are introduced in R4.";

-- 5.2.2 utranCellHandoverPackage

utranCellHandoverPackageR0600 PACKAGE

BEHAVIOUR

utranCellHandoverPackageR0600Behaviour;

ATTRIBUTES

cIdR55 GET-REPLACE,

localCellIdR55 GET-REPLACE,

maximumTransmissionPower GET-REPLACE,

cellMode GET,

lac GET-REPLACE,

rac GET-REPLACE,

sac GET-REPLACE,

uraList GET-REPLACE;

REGISTERED AS {ts32-644Package 20600};

utranCellHandoverPackageR0600Behaviour BEHAVIOUR

DEFINED AS

"This package contains the attributes of utranCell required for handover management

in the FDD mode, the 1.28 Mcps TDD mode and the 3.84 Mcps TDD mode.";

-- 5.2.3 utranRelationBasicPackage

utranRelationBasicPackageR0600 PACKAGE

BEHAVIOUR

utran Relation Basic Package R0600 Behaviour;

ATTRIBUTES

utranRelationId GET, cellMode GET;

REGISTERED AS {ts32-644Package 30600};

utranRelationBasicPackageR0600Behaviour BEHAVIOUR

DEFINED AS

"The package contains the attributes of utranRelation required for the relation from utranCell to utranCell or externalUtranCell in the FDD mode, the 1.28 Mcps TDD mode and the 3.84 Mcps TDD mode. Note: In handover relation terms, the cell containing the UTRAN Relation object is the source cell for the handover. The cell referred to in the UTRAN relation 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.";

-- 5.2.4 utranRelationAssociationPackage

utranRelationAssociationPackage PACKAGE

BEHAVIOUR

utranRelationAssociationPackageBehaviour;

ATTRIBUTES

adjacentCell GET-REPLACE;

REGISTERED AS {ts32-644Package 4};

utranRelationAssociationPackageBehaviour BEHAVIOUR

DEFINED AS

"This package contains all attributes implementing associations related to an utranRelation";

-- 5.2.5 externalUtranCellPackage

externalUtranCellPackageR0600 PACKAGE

BEHAVIOUR

externalUtranCellPackageR0600Behaviour;

ATTRIBUTES

externalUtranCellId GET,

cIdR55 GET-REPLACE,

mcc GET-REPLACE,

mnc GET-REPLACE,

rncIdR55 GET-REPLACE,

cellMode GET,

lac GET-REPLACE,

rac GET-REPLACE;

REGISTERED AS {ts32-644Package 50600};

externalUtranCellPackageR0600Behaviour BEHAVIOUR

DEFINED AS

"This Managed Object Class represents a radio cell controlled by another IRPAgent.";

-- 5.2.6 rncFunctionBasicPackage

rncFunctionBasicPackage PACKAGE

BEHAVIOUR

rncFunctionBasicPackageBehaviour;

ATTRIBUTES

rncFunctionId GET;

REGISTERED AS {ts32-644Package 6};

rncFunctionBasicPackageBehaviour BEHAVIOUR

DEFINED AS

"The MOC rncFunction represents UMTS RNC function.";

-- 5.2.7 utranCellBasicPackage

utranCellBasicPackage PACKAGE

BEHAVIOUR

utran Cell Basic Package Behaviour;

ATTRIBUTES

utranCellId GET;

REGISTERED AS {ts32-644Package 7};

utranCellBasicPackageBehaviour BEHAVIOUR

DEFINED AS

"This managed object class represents the radio cell controlled by a RNC.";

-- 5.2.8 utranCellAssociationPackage

utranCellAssociationPackage PACKAGE

BEHAVIOUR

utranCellAssociationPackageBehaviour;

ATTRIBUTES

utranCell2iubLink GET;

REGISTERED AS {ts32-644Package 8};

utranCellAssociationPackageBehaviour BEHAVIOUR

DEFINED AS

"This package contains the pointer attributes that implement associations related to utranCell.";

-- 5.2.9 iubLinkBasicPackage

iubLinkBasicPackage PACKAGE

BEHAVIOUR

iubLinkBasicPackageBehaviour;

ATTRIBUTES

iubLinkId GET;

REGISTERED AS {ts32-644Package 9};

 $iubLink Basic Package Behaviour\ \textbf{BEHAVIOUR}$

DEFINED AS

"This managed object class models the Iub Link between a Node-B and a RNC.";

-- 5.2.10 iubLinkAssociation

iubLinkAssociationPackage PACKAGE

BEHAVIOUR

iub Link Association Package Behaviour;

ATTRIBUTES

iubLink2nodeBFunction GET,

iubLink2utranCell GET;

REGISTERED AS {ts32-644Package 10};

 $iubLink Association Package Behaviour \ \textbf{BEHAVIOUR}$

DEFINED AS

"The attribute 'iubLink2NodeBFunction' points to the nodeBFunction instance which this iubLink instance connects to. The attribute 'iubLink2utranCell' points to a list of utranCell instances which attach to the nodeBFunction this iubLink connects to.":

-- 5.2.11 nodeBFunctionBasicPackage

nodeBFunctionBasicPackage PACKAGE

BEHAVIOUR

nodeBFunctionBasicPackageBehaviour;

ATTRIBUTES

nodeBFunctionId GET;

REGISTERED AS {ts32-644Package 11};

nodeBFunctionBasicPackageBehaviour BEHAVIOUR

DEFINED AS

"This managed object class represents the NodeB functionality.";

-- 5.2.12 nodeBFunctionAssociationPackage

nodeBFunctionAssociationPackage PACKAGE

BEHAVIOUR

node BFunction Association Package Behaviour;

ATTRIBUTES

nodeB2iubLink GET;

REGISTERED AS {ts32-644Package 12};

 $node BF unction Association Package Behaviour \ \textbf{BEHAVIOUR}$

DEFINED AS

"The attribute 'nodeB2iubLink' points to the iubLink instance which connects to this nodeBFunction instance directly.";

-- 5.2.13 utranFDDCellHandoverPackage

utranFDDCellHandoverPackage PACKAGE

BEHAVIOUR

utran FDD Cell Handover Package Behaviour;

ATTRIBUTES

uarfcnUl GET-REPLACE,

uarfcnDl GET-REPLACE,

primaryScramblingCode GET-REPLACE,

primaryCpichPower GET-REPLACE,

primarySchPower GET-REPLACE,

secondarySchPower GET-REPLACE,

bchPower GET-REPLACE;

REGISTERED AS {ts32-644Package 130600};

utranFDDCellHandoverPackageBehaviour BEHAVIOUR

DEFINED AS

"This package contains the attributes of UtranCell required for handover management in the FDD mode.";

-- 5.2.14 utran1-28McpsTDDCellHandoverPackage

utran1-28McpsTDDCellHandoverPackage PACKAGE

BEHAVIOUR

utran1-28McpsTDDCellHandoverPackageBehaviour;

ATTRIBUTES

uarfcn GET-REPLACE,

cellParameterId GET-REPLACE,

primaryCcpchPower GET-REPLACE,

dwPchPower GET-REPLACE,

timeSlotList GET-REPLACE;

REGISTERED AS {ts32-644Package 140600};

utran1-28McpsTDDCellHandoverPackageBehaviour BEHAVIOUR

DEFINED AS

"This package contains the attributes of UtranCell required for handover management in the 1.28 Mcps TDD mode.";

-- 5.2.15 utran3-84McpsTDDCellHandoverPackage

utran3-84McpsTDDCellHandoverPackage PACKAGE

BEHAVIOUR

utran3-84McpsTDDCellHandoverPackageBehaviour;

ATTRIBUTES

uarfcn GET-REPLACE,
cellParameterId GET-REPLACE,
primaryCcpchPower GET-REPLACE,
schPower GET-REPLACE,
timeSlotList GET-REPLACE;

REGISTERED AS {ts32-644Package 150600};

utran3-84McpsTDDCellHandoverPackageBehaviour BEHAVIOUR

DEFINED AS

"This package contains the attributes of utranCell required for handover management in the 3.84 Mcps TDD mode.";

-- 5.2.16 utranRelationFDDHandoverPackage

utranRelationFDDHandoverPackage PACKAGE

BEHAVIOUR

utran Relation FDD Handover Package Behaviour;

ATTRIBUTES

uarfcnUl GET,
uarfcnDl GET,
primaryScramblingCode GET,
primaryCpichPower GET,
lac GET;

REGISTERED AS {ts32-644Package 160600};

utranRelationFDDHandoverPackageBehaviour BEHAVIOUR

DEFINED AS

"This package contains the attributes of an utranRelation required for FDD handover management.";

-- 5.2.17 utranRelationTDDHandoverPackage

utranRelationTDDHandoverPackage PACKAGE

BEHAVIOUR

utran Relation TDD Handover Package Behaviour;

ATTRIBUTES

uarfcn GET,
cellParameterId GET,
primaryCcpchPower GET,
lac GET;

REGISTERED AS {ts32-644Package 170600};

utranRelationTDDHandoverPackageBehaviour BEHAVIOUR

DEFINED AS

"This package contains the attributes of an utranRelation required for TDD handover management.";

-- 5.2.18 externalUtranFDDCellHandoverPackage

external Utran FDD Cell Handover Package~ PACKAGE

BEHAVIOUR

externalUtranFDDCellHandoverPackageBehaviour;

ATTRIBUTES

uarfcnUl GET-REPLACE,
uarfcnDl GET-REPLACE,
primaryScramblingCode GET-REPLACE,
primaryCpichPower GET-REPLACE;

REGISTERED AS {ts32-644Package 180600};

externalUtranFDDCellHandoverPackageBehaviour BEHAVIOUR

DEFINED AS

"This package contains the attributes of externalUtranCell required for FDD handover management.";

-- 5.2.19 externalUtranTDDCellHandoverPackage

externalUtranTDDCellHandoverPackage PACKAGE

BEHAVIOUR

external Utran TDD Cell Handover Package Behaviour;

ATTRIBUTES

uarfcn GET-REPLACE,
cellParameterId GET-REPLACE,
primaryCcpchPower GET-REPLACE;

REGISTERED AS {ts32-644Package 190600};

DEFINED AS

"This package contains the attributes of externalUtranCell required for TDD handover management.";

externalUtranTDDCellHandoverPackageBehaviour BEHAVIOUR

-- 5.2.20 iubLink2aTMChannelTerminationPointAssociationPackage

iubLink2aTMChannelTerminationPointAssociationPackage PACKAGE

BEHAVIOUR

iubLink2aTMChannelTerminationPointAssociationPackageBehaviour;

ATTRIBUTES

iubLink2aTMChannelTerminationPoint GET;

REGISTERED AS {ts32-644Package 200600};

 $iub Link 2a TM Channel Termination Point Association Package Behaviour \ \textbf{BEHAVIOUR}$

DEFINED AS

"This package contains the attribute iubLink2aTMChannelTerminationPoint pointing to the ATMChannelTerminationPoint instances associated to this IubLink.";

-- 5.2.21 utranCellRetPackage

utranCellRetPackageR0610 PACKAGE

BEHAVIOUR

utranCellRetPackageR0610Behaviour;

ATTRIBUTES

retAntennaFunctionListR0610 GET-REPLACE ADD-REMOVE :

REGISTERED AS {ts32-644Package 210610};

utranCellRetPackageR0610Behaviour BEHAVIOUR

DEFINED AS

"This package contains the attributes of utranCell related to RET.";

-- 5.2.22 antennaFunctionBasicPackage

antennaFunctionBasicPackageR0610 PACKAGE

BEHAVIOUR

antennaFunctionBasicPackageR0610Behaviour;

ATTRIBUTES

```
antenna
Function<br/>IdR0610 \, GET \, .
```

REGISTERED AS {ts32-644Package 220610};

antennaFunctionBasicPackageR0610Behaviour BEHAVIOUR

DEFINED AS

"This package contains the attribute antennaFunctionId and possibly mandatory attributes of antennaFunction.";

-- 5.2.23 antennaFunctionOptionalPackage

antennaFunctionOptionalPackageR0610 PACKAGE

BEHAVIOUR

antennaFunctionOptionalPackageR0610Behaviour;

ATTRIBUTES

```
retUtranCellListR0610
                      GET-REPLACE,
retTiltValueR0610
                     GET-REPLACE,
compassDirectionR0610
                       GET-REPLACE,
maxTiltValueR0610
                      GET-REPLACE,
minTiltValueR0610
                      GET-REPLACE,
mechanicalOffsetR0610
                       GET-REPLACE,
retGroupNameR0610
                       GET-REPLACE,
heightR0610
                   GET-REPLACE
```

REGISTERED AS {ts32-644Package 230610};

antennaFunctionOptionalPackageR0610Behaviour BEHAVIOUR

DEFINED AS

"This package contains the optional attributes of antennaFunction except antennaFunctionId.";

-- 5.2.24 externalUtranCellAssociationPackage

externalUtranCellAssociationPackage PACKAGE

BEHAVIOUR

externalUtranCellAssociationPackageBehaviour;

ATTRIBUTES

controllingRnc GET-REPLACE;

REGISTERED AS {ts32-644Package 240620};

externalUtranCellAssociationPackageBehaviour BEHAVIOUR

DEFINED AS

"This package contains the attribute controllingRnc.";

-- 5.2.25 externalRncFunctionBasicPackage

externalRncFunctionBasicPackage PACKAGE

BEHAVIOUR

externalRncFunctionBasicPackageBehaviour;

ATTRIBUTES

externalRncFunctionId GET,

mcc GET-REPLACE,

mnc GET-REPLACE,

rncIdR55 GET-REPLACE;

REGISTERED AS {ts32-644Package 250620};

externalRncFunctionBasicPackageBehaviour BEHAVIOUR

DEFINED AS

"This package contains the mandatory attributes of MOC externalRncFuntion.";

-- 5.2.26 externalRncFunctionAssociationPackage

externalRncFunctionAssociationPackage PACKAGE

BEHAVIOUR

externalRncFunctionAssociationPackageBehaviour;

ATTRIBUTES

controlledCellList GET;

REGISTERED AS {ts32-644Package 260620};

externalRncFunctionAssociationPackageBehaviour BEHAVIOUR

DEFINED AS

"This package contains the optional attribute of MOC externalRncFuntion.";

-- 5.3 Attributes

-- 5.3.1 mcc

mcc ATTRIBUTE

WITH ATTRIBUTE SYNTAX

TS32-644TypeModule.MobileCountryCode;

MATCHES FOR

EQUALITY;

BEHAVIOUR

mccBehaviour;

REGISTERED AS {ts32-644Attribute 1};

mccBehaviour BEHAVIOUR

DEFINED AS

"Mobile Country Code, MCC. It is a part of the PLMN Id (Ref. 3 GPP TS 23.003).";

-- 5.3.2 mnc

mnc ATTRIBUTE

WITH ATTRIBUTE SYNTAX

TS32-644TypeModule.MobileNetworkCode;

MATCHES FOR

EQUALITY;

BEHAVIOUR

mncBehaviour;

REGISTERED AS {ts32-644Attribute 2};

mncBehaviour BEHAVIOUR

DEFINED AS

"Mobile Network Code, MNC. It is a part of the PLMN Id (Ref. 3 GPP TS 23.003).";

-- 5.3.3 rncld

rncIdR55 ATTRIBUTE

WITH ATTRIBUTE SYNTAX

TS32-644TypeModule.RncId;

MATCHES FOR

EQUALITY;

BEHAVIOUR

rncIdR55Behaviour;

REGISTERED AS {ts32-644Attribute 31};

rncIdR55Behaviour BEHAVIOUR

DEFINED AS

"Unique RNC ID (Ref. 3 GPP TS 23.003).";

-- 5.3.4 cld

cIdR55 ATTRIBUTE

WITH ATTRIBUTE SYNTAX

TS32-644TypeModule.CId;

MATCHES FOR

EQUALITY;

BEHAVIOUR

cIdR55Behaviour;

REGISTERED AS {ts32-644Attribute 32};

cIdR55Behaviour BEHAVIOUR

DEFINED AS

"cId is the identifier of a cell in one RNC (Ref. 3 GPP TS 25.401).";

-- 5.3.5 localCellId

localCellIdR55 ATTRIBUTE

WITH ATTRIBUTE SYNTAX

TS32-644TypeModule.LocalCellId;

MATCHES FOR

EQUALITY;

BEHAVIOUR

localCellIdR55Behaviour;

REGISTERED AS {ts32-644Attribute 33};

localCellIdR55Behaviour BEHAVIOUR

DEFINED AS

"Local Cell id is used to uniquely identify the set of resources defined in a Node B to support a cell (as defined by a Cid Ref. 3 GPP TS 25.401). It must be unique in Node B at a minimum, but may be unique in UTRAN. It can be used to tie the cell in the RNC to a specific set of resources in the Node B.";

-- 5.3.6 uarfcnUl

uarfcnUl ATTRIBUTE

WITH ATTRIBUTE SYNTAX

TS32-644TypeModule.UarfcnUl;

MATCHES FOR

EQUALITY;

BEHAVIOUR

uarfcnUlBehaviour;

REGISTERED AS {ts32-644Attribute 6};

uarfcnUlBehaviour BEHAVIOUR

DEFINED AS

"The UL UTRA absolute Radio Frequency Channel number in an FDD mode cell, UARFCN (Ref. 3 GPP TS 25.433).";

-- 5.3.7 uarfcnDl

uarfcnDl ATTRIBUTE

WITH ATTRIBUTE SYNTAX

TS32-644TypeModule.UarfcnDl;

MATCHES FOR

EQUALITY;

BEHAVIOUR

uarfcnDlBehaviour;

REGISTERED AS {ts32-644Attribute 7};

uarfcnDlBehaviour BEHAVIOUR

DEFINED AS

"The DL UTRA absolute Radio Frequency Channel number in an FDD mode cell,

UARFCN (Ref. 3 GPP TS 25.433).";

-- 5.3.8 primaryScramblingCode

primaryScramblingCode ATTRIBUTE

WITH ATTRIBUTE SYNTAX

TS32-644TypeModule.PrimaryScramblingCode;

MATCHES FOR

EQUALITY;

BEHAVIOUR

primaryScramblingCodeBehaviour;

REGISTERED AS {ts32-644Attribute 8};

primaryScramblingCodeBehaviour BEHAVIOUR

DEFINED AS

"The primary DL scrambling code used by the FDD mode cell (Ref. 3 GPP TS 25.433).";

-- 5.3.9 primaryCpichPower

primaryCpichPower ATTRIBUTE

WITH ATTRIBUTE SYNTAX

TS32-644TypeModule.PrimaryCpichPower;

MATCHES FOR

EQUALITY;

BEHAVIOUR

primaryCpichPowerBehaviour;

REGISTERED AS {ts32-644Attribute 9};

primaryCpichPowerBehaviour BEHAVIOUR

DEFINED AS

"The power of the primary CPICH channel in the FDD mode cell (Ref. 3 GPP TS 25.433).";

-- 5.3.10 maximumTransmissionPower

maximumTransmissionPower ATTRIBUTE

WITH ATTRIBUTE SYNTAX

TS32-644TypeModule.MaximumTransmissionPower;

MATCHES FOR

EQUALITY;

BEHAVIOUR

maximumTransmissionPowerBehaviour;

REGISTERED AS {ts32-644Attribute 10};

maximumTransmissionPowerBehaviour BEHAVIOUR

DEFINED AS

"The maximum transmission power of a cell, DL Power (Ref. 3 GPP TS 25.433).";

-- 5.3.11 primarySchPower

primarySchPower ATTRIBUTE

WITH ATTRIBUTE SYNTAX

TS32-644TypeModule.PrimarySchPower;

MATCHES FOR

EQUALITY;

BEHAVIOUR

primarySchPowerBehaviour;

REGISTERED AS {ts32-644Attribute 11};

primarySchPowerBehaviour BEHAVIOUR

DEFINED AS

"The power of the primary synchronisation channel in the FDD mode cell,

DL Power (Ref. 3 GPP TS 25.433).";

-- 5.3.12 secondarySchPower

secondarySchPower ATTRIBUTE

WITH ATTRIBUTE SYNTAX

TS32-644TypeModule.SecondarySchPower;

MATCHES FOR

EQUALITY;

BEHAVIOUR

secondarySchPowerBehaviour;

REGISTERED AS {ts32-644Attribute 12};

secondarySchPowerBehaviour BEHAVIOUR

DEFINED AS

"The power of the secondary synchronisation channel in the FDD mode cell,

DL Power (Ref. 3 GPP TS 25.433).";

-- 5.3.13 bchPower

bchPower ATTRIBUTE

WITH ATTRIBUTE SYNTAX

TS32-644TypeModule.BchPower;

MATCHES FOR

EQUALITY;

BEHAVIOUR

bchPowerBehaviour;

REGISTERED AS {ts32-644Attribute 13};

bchPowerBehaviour BEHAVIOUR

DEFINED AS

"The power of the broadcast channel in the FDD mode cell (Ref. 3 GPP TS 25.433).";

-- 5.3.14 lac

lac ATTRIBUTE

WITH ATTRIBUTE SYNTAX

TS32-644TypeModule.LocationAreaCode;

MATCHES FOR

EQUALITY;

BEHAVIOUR

lacBehaviour;

REGISTERED AS {ts32-644Attribute 14};

lacBehaviour BEHAVIOUR

DEFINED AS

"Location Area Code, LAC (Ref. 3 GPP TS 23.003)";

-- 5.3.15 rac

rac ATTRIBUTE

WITH ATTRIBUTE SYNTAX

TS32-644TypeModule.Rac;

MATCHES FOR

EQUALITY;

BEHAVIOUR

racBehaviour;

REGISTERED AS {ts32-644Attribute 15};

racBehaviour BEHAVIOUR

DEFINED AS

"Routing Area Code, RAC (Ref. 3 GPP TS 23.003)";

-- 5.3.16 sac

sac ATTRIBUTE

WITH ATTRIBUTE SYNTAX

TS32-644TypeModule.Sac;

MATCHES FOR

EQUALITY;

BEHAVIOUR

sacBehaviour;

REGISTERED AS {ts32-644Attribute 16};

sacBehaviour BEHAVIOUR

DEFINED AS

"Service Area Code, RAC (Ref. 3 GPP TS 23.003)";

- -- 5.3.17 ura
- -- Void.

-- 5.3.18 utranRelationId

utranRelationId ATTRIBUTE

WITH ATTRIBUTE SYNTAX

TS32-644TypeModule.GeneralObjectId;

MATCHES FOR

EQUALITY;

BEHAVIOUR

utranRelationIdBehaviour;

REGISTERED AS {ts32-644Attribute 18};

utranRelationIdBehaviour BEHAVIOUR

DEFINED AS

"This attribute identifies an utranRelation object.";

- -- 5.3.19 relationType
- -- Void.

-- 5.3.20 adjacentCell

adjacentCell ATTRIBUTE

WITH ATTRIBUTE SYNTAX

TS32-644 Type Module. General Object Pointer;

MATCHES FOR

EQUALITY;

BEHAVIOUR

adjacentCellBehaviour;

REGISTERED AS {ts32-644Attribute 20};

adjacentCellBehaviour BEHAVIOUR

DEFINED AS

"Pointer to UTRAN cell or external UTRAN cell. Distinguished name of the corresponding object.";

-- 5.3.21 externalUtranCellId

externalUtranCellId ATTRIBUTE

WITH ATTRIBUTE SYNTAX

TS32-644TypeModule.GeneralObjectId;

MATCHES FOR

EQUALITY;

BEHAVIOUR

adjacentCellBehaviour;

REGISTERED AS {ts32-644Attribute 21};

externalUtranCellIdBehaviour BEHAVIOUR

DEFINED AS

"This attribute identifies an externalUtranCell object.";

-- 5.3.22 rncFunctionId

rncFunctionId ATTRIBUTE

WITH ATTRIBUTE SYNTAX

TS32-644TypeModule.GeneralObjectId;

MATCHES FOR

EQUALITY;

BEHAVIOUR

rncFunctionIdBehaviour;

REGISTERED AS {ts32-644Attribute 22};

rncFunctionIdBehaviour BEHAVIOUR

DEFINED AS

"This attribute names an instance of the 'rncFunction' object class.";

-- 5.3.23 utranCellId

utranCellId ATTRIBUTE

WITH ATTRIBUTE SYNTAX

TS32-644TypeModule.GeneralObjectId;

MATCHES FOR

EQUALITY;

BEHAVIOUR

utranCellIdBehaviour;

REGISTERED AS {ts32-644Attribute 23};

utranCellIdBehaviour BEHAVIOUR

DEFINED AS

"This attribute names an instance of the 'utranCell' object class.";

-- 5.3.24 utranCell2iubLink

utranCell2iubLink ATTRIBUTE

WITH ATTRIBUTE SYNTAX

TS32-644TypeModule.GeneralObjectPointer;

MATCHES FOR

EQUALITY;

BEHAVIOUR

utranCell2iubLinkBehaviour;

REGISTERED AS {ts32-644Attribute 24};

 $utran Cell 2 iub Link Behaviour \ \textbf{BEHAVIOUR}$

DEFINED AS

"This attribute points to the iubLink instance connecting to this utranCell.";

-- 5.3.25 jubLinkId

iubLinkId ATTRIBUTE

WITH ATTRIBUTE SYNTAX

TS32-644TypeModule.GeneralObjectId;

MATCHES FOR

EQUALITY;

BEHAVIOUR

iubLinkIdBehaviour;

REGISTERED AS {ts32-644Attribute 25};

iubLinkIdBehaviour BEHAVIOUR

DEFINED AS

"This attribute names an instance of the 'iubLink' object class.";

-- 5.3.26 iubLink2nodeBFunction

iubLink2nodeBFunction ATTRIBUTE

WITH ATTRIBUTE SYNTAX

TS32-644TypeModule.GeneralObjectPointer;

MATCHES FOR

EQUALITY;

BEHAVIOUR

iubLink2nodeBFunctionBehaviour;

REGISTERED AS {ts32-644Attribute 26};

iubLink2nodeBFunctionBehaviour BEHAVIOUR

DEFINED AS

"This attribute points to the nodeBFunction instance which this iubLink instance connects directly to.";

-- 5.3.27 iubLink2utranCell

iubLink2utranCell ATTRIBUTE

WITH ATTRIBUTE SYNTAX

TS32-644TypeModule.GeneralObjectPointerList;

MATCHES FOR

EQUALITY;

BEHAVIOUR

iubLink2utranCellBehaviour;

REGISTERED AS {ts32-644Attribute 27};

iubLink2utranCellBehaviour BEHAVIOUR

DEFINED AS

"This attribute points from an iubLink instance to a list of utranCell instance";

-- 5.3.28 nodeBFunctionId

nodeBFunctionId ATTRIBUTE

WITH ATTRIBUTE SYNTAX

TS32-644TypeModule.GeneralObjectId;

MATCHES FOR

EQUALITY;

BEHAVIOUR

nodeBFunctionIdBehaviour;

REGISTERED AS {ts32-644Attribute 28};

nodeBFunctionIdBehaviour BEHAVIOUR

DEFINED AS

"This attribute names an instance of the 'nodeBFunction' object class.";

-- 5.3.29 nodeB2iubLink

nodeB2iubLink ATTRIBUTE

WITH ATTRIBUTE SYNTAX

TS32-644TypeModule.GeneralObjectPointer;

MATCHES FOR

EQUALITY;

BEHAVIOUR

nodeB2iubLinkBehaviour;

REGISTERED AS {ts32-644Attribute 29};

nodeB2iubLinkBehaviour BEHAVIOUR

DEFINED AS

"This attribute points to the IubLink instance which connects to the related nodeBFunction instance directly.";

-- 5.3.30 uraList

uraList ATTRIBUTE

WITH ATTRIBUTE SYNTAX

TS32-644TypeModule.UraList;

MATCHES FOR

EQUALITY;

BEHAVIOUR

uraListBehaviour;

REGISTERED AS {ts32-644Attribute 30};

uraListBehaviour BEHAVIOUR

DEFINED AS

"List of UTRAN Registration Area, URA (Ref. 3 GPP TS 25.331)";

-- 5.3.31 uarfcn

uarfcn ATTRIBUTE

WITH ATTRIBUTE SYNTAX

TS32-644TypeModule.Uarfcn;

MATCHES FOR

EQUALITY;

BEHAVIOUR

uarfcnBehaviour;

REGISTERED AS {ts32-644Attribute 310600};

uarfcnBehaviour BEHAVIOUR

DEFINED AS

"The UTRA absolute Radio Frequency Channel number in a TDD mode cell,

UARFCN (Ref. 3 GPP TS 25.433).";

-- 5.3.32 cellParameterId

cellParameterId ATTRIBUTE

WITH ATTRIBUTE SYNTAX

TS32-644TypeModule.CellParameterId;

MATCHES FOR

EQUALITY;

BEHAVIOUR

cellParameterIdBehaviour;

REGISTERED AS {ts32-644Attribute 320600};

cellParameterIdBehaviour BEHAVIOUR

DEFINED AS

"The [3.84 Mcps TDD - Code Groups, Scrambling Codes, Midambles and Toffset] [1.28 Mcps TDD - SYNC-DL and SYNC-UL sequences, the scrambling codes and the midamble codes] of the cell (Ref. 3GPP TS 25.433).";

-- 5.3.33 primaryCcpchPower

primaryCcpchPower ATTRIBUTE

WITH ATTRIBUTE SYNTAX

TS32-644TypeModule.PrimaryCcpchPower;

MATCHES FOR

EQUALITY;

BEHAVIOUR

primaryCcpchPowerBehaviour;

REGISTERED AS {ts32-644Attribute 330600};

primaryCcpchPowerBehaviour BEHAVIOUR

DEFINED AS

"The power of the primary CCPCH channel in the TDD cell (Ref. 3GPP TS 25.433).";

-- 5.3.34 dwPchPower

dwPchPower ATTRIBUTE

WITH ATTRIBUTE SYNTAX

TS32-644TypeModule.DwPchPower;

MATCHES FOR

EQUALITY;

BEHAVIOUR

dwPchPowerBehaviour;

REGISTERED AS {ts32-644Attribute 340600};

dwPchPowerBehaviour BEHAVIOUR

DEFINED AS

"The power that shall be used for transmitting the DwPCH in a 1.28 Mcps TDD Mode cell.

(Ref. 3GPP TS 25.433).";

-- 5.3.35 timeSlotList

timeSlotList ATTRIBUTE

WITH ATTRIBUTE SYNTAX

TS32-644TypeModule.TimeSlotList;

MATCHES FOR

EQUALITY;

BEHAVIOUR

timeSlotListBehaviour;

REGISTERED AS {ts32-644Attribute 350600};

timeSlotListBehaviour BEHAVIOUR

DEFINED AS

"This attribute defines the time slot list configuration information

in the 1.28 Mcps TDD or 3.84 Mcps TDD cell, and it is a set which

contains 7 (for 1.28 Mcps TDD cell) or 15 (for 3.84 Mcps TDD cell) items,

within each item there are three parts: timeSlotId, timeSlotDirection,

timeSlotStatus (Ref. 3GPP TS 25.433 [5]).";

-- 5.3.36 schPower

schPower ATTRIBUTE

WITH ATTRIBUTE SYNTAX

TS32-644TypeModule.SchPower;

MATCHES FOR

EQUALITY;

BEHAVIOUR

schPowerBehaviour;

REGISTERED AS {ts32-644Attribute 360600};

schPowerBehaviour BEHAVIOUR

DEFINED AS

"The power of the synchronisation channel in 3.84 Mcps TDD cell. (Ref. 3GPP TS 25.433).";

-- 5.3.37 cellMode

cellMode ATTRIBUTE

WITH ATTRIBUTE SYNTAX

TS32-644TypeModule.CellMode;

MATCHES FOR

EQUALITY;

BEHAVIOUR

cellModeBehaviour;

REGISTERED AS {ts32-644Attribute 370600};

cellModeBehaviour BEHAVIOUR

DEFINED AS

"This attribute is multivalued and indicates the modes (FDD mode, 1.28McpsTDD mode, 3.84Mcps).";

-- 5.3.38 iubLink2aTMChannelTerminationPoint

iubLink2aTMChannelTerminationPoint ATTRIBUTE

WITH ATTRIBUTE SYNTAX

TS32-644TypeModule.GeneralObjectPointerList;

MATCHES FOR

EQUALITY;

BEHAVIOUR

iubLink2aTMChannelTerminationPointBehaviour;

REGISTERED AS {ts32-644Attribute 380600};

iubLink2aTMChannelTerminationPointBehaviour BEHAVIOUR

DEFINED AS

"The attribute iubLink2aTMChannelTerminationPoint points to the ATMChannelTerminationPoint instances associated to the IubLink holding this attribute.";

-- 5.3.39 retAntennaFunctionList

retAntennaFunctionListR0610 ATTRIBUTE

WITH ATTRIBUTE SYNTAX

TS32-644TypeModule.GeneralObjectPointerList;

MATCHES FOR

EQUALITY;

BEHAVIOUR

retAntennaFunctionListR0610Behaviour;

REGISTERED AS {ts32-644Attribute 390610};

retAntennaFunctionListR0610Behaviour BEHAVIOUR

DEFINED AS

"The attribute retAntennaFunctionListR0610 points to the antennaFunction instance(s) associated to the utranCell holding this attribute.";

-- 5.3.40 antennaFunctionId

antennaFunctionIdR0610 ATTRIBUTE

WITH ATTRIBUTE SYNTAX

TS32-644TypeModule.GeneralObjectId;

MATCHES FOR

EQUALITY;

BEHAVIOUR

antennaFunctionIdR0610Behaviour;

REGISTERED AS {ts32-644Attribute 400610};

antennaFunctionIdR0610Behaviour BEHAVIOUR

DEFINED AS

 $"This \ attribute \ names \ an \ instance \ of \ the \ `antennaFunction IdR0610' \ object \ class.";$

-- 5.3.41 retUtranCellList

retUtranCellListR0610 ATTRIBUTE

WITH ATTRIBUTE SYNTAX

TS32-644TypeModule.GeneralObjectPointerList;

MATCHES FOR

EQUALITY;

BEHAVIOUR

retUtranCellListR0610Behaviour;

REGISTERED AS {ts32-644Attribute 410610};

retUtranCellListR0610Behaviour BEHAVIOUR

DEFINED AS

"This attribute retUtranCellList points to the utranCell instance(s(associated to the antennaFunction holding this attribute. i.e. to the utranCells(s) which are supported by the antenna.";

-- 5.3.42 retTiltValue

retTiltValueR0610 ATTRIBUTE

WITH ATTRIBUTE SYNTAX

TS32-644TypeModule.Angle;

MATCHES FOR

EQUALITY;

BEHAVIOUR

retTiltValueR0610Behaviour;

REGISTERED AS {ts32-644Attribute 420610};

retTiltValueR0610Behaviour BEHAVIOUR

DEFINED AS

"This attribute represents the tilt value of the antenna that has been made using electrical means (i.e. using RET).";

-- 5.3.43 compassDirection

compassDirectionR0610 ATTRIBUTE

WITH ATTRIBUTE SYNTAX

TS32-644TypeModule.Angle;

MATCHES FOR

EQUALITY;

BEHAVIOUR

compassDirectionR0610Behaviour;

REGISTERED AS {ts32-644Attribute 430610};

compassDirectionR0610Behaviour BEHAVIOUR

DEFINED AS

"This attribute represents the compass direction in degrees (magnetic) that the antenna is pointing in.";

-- 5.3.44 maxTiltValue

maxTiltValueR0610 ATTRIBUTE

WITH ATTRIBUTE SYNTAX

TS32-644TypeModule.Angle;

MATCHES FOR

EQUALITY;

BEHAVIOUR

maxTiltValueR0610Behaviour;

REGISTERED AS {ts32-644Attribute 440610};

maxTiltValueR0610Behaviour BEHAVIOUR

DEFINED AS

"This attribute represents the maximum amount of tilt the RET system can support.";

-- 5.3.45 minTiltValue

minTiltValueR0610 ATTRIBUTE

WITH ATTRIBUTE SYNTAX

TS32-644TypeModule.Angle;

MATCHES FOR

EQUALITY;

BEHAVIOUR

minTiltValueR0610Behaviour;

REGISTERED AS {ts32-644Attribute 450610};

minTiltValueR0610Behaviour BEHAVIOUR

DEFINED AS

"This attribute represents the minimum amount of tilt the RET system can support.";

-- 5.3.46 mechanicalOffset

mechanicalOffsetR0610 ATTRIBUTE

WITH ATTRIBUTE SYNTAX

TS32-644TypeModule.Angle;

MATCHES FOR

EQUALITY;

BEHAVIOUR

mechanicalOffsetR0610Behaviour;

REGISTERED AS {ts32-644Attribute 460610};

mechanicalOffsetR0610Behaviour BEHAVIOUR

DEFINED AS

"This attribute represents a non-adjustable tilt value, which is imparted to the antenna due to the physical installation. The actual tilt at any point in time is the summation of mechanicalOffset and retTiltValue.";

-- 5.3.47 retGroupName

retGroupNameR0610 ATTRIBUTE

WITH ATTRIBUTE SYNTAX

TS32-644 Type Module. Ret Group Name;

MATCHES FOR

EQUALITY;

BEHAVIOUR

retGroupNameR0610Behaviour;

REGISTERED AS {ts32-644Attribute 470610};

retGroupNameR0610Behaviour BEHAVIOUR

DEFINED AS

"This attribute provides the possibility to define a logical grouping of antennas which may be in different cells.";

-- 5.3.48 height

heightR0610 ATTRIBUTE

WITH ATTRIBUTE SYNTAX

TS32-644TypeModule.Height;

MATCHES FOR

EQUALITY;

BEHAVIOUR

heightR0610Behaviour;

REGISTERED AS {ts32-644Attribute 480610};

heightR0610Behaviour BEHAVIOUR

DEFINED AS

"This attribute represents the height of an antenna above sea level.";

-- 5.3.49 controllingRnc

controllingRnc ATTRIBUTE

WITH ATTRIBUTE SYNTAX

TS32-644TypeModule.ControllingRnc;

MATCHES FOR

EQUALITY;

BEHAVIOUR

controllingRncBehaviour;

REGISTERED AS {ts32-644Attribute 490620};

controllingRncBehaviour BEHAVIOUR

DEFINED AS

"This attribute represents ExternalUtranCell capability to identify one related

ExternalRncFunction. It contains one ExternalRncFunction's DN.";

-- 5.3.50 controlledCellList

controlledCellList ATTRIBUTE

WITH ATTRIBUTE SYNTAX

TS32-644 Type Module. Controlled Cell List;

MATCHES FOR

EQUALITY;

BEHAVIOUR

controlledCellListBehaviour;

REGISTERED AS {ts32-644Attribute 500620};

controlledCellListBehaviour BEHAVIOUR

DEFINED AS

"This attribute represents represents the capability to identify the set of related

ExternalUtranCell. It contains the set of ExternalUtranCell's DNs..";

-- 5.3.51 externalRncFunctionId

externalRncFunctionId ATTRIBUTE

WITH ATTRIBUTE SYNTAX

TS32-644TypeModule.GeneralObjectId;

MATCHES FOR

EQUALITY;

BEHAVIOUR

externalRncFunctionIdBehaviour;

REGISTERED AS {ts32-644Attribute 510620};

externalRncFunctionIdBehaviour BEHAVIOUR

DEFINED AS

"This attribute names an instance of the ExternalRncFunction object class.";

-- 5.4 Name Binding

-- 5.4.1 rncFunction - managedElement

rncFunctionR55-managedElement NAME BINDING

SUBORDINATE OBJECT CLASS

rncFunctionR55;

NAMED BY SUPERIOR OBJECT CLASS

"3GPP TS 32.624": managedElement;

WITH ATTRIBUTE

rncFunctionId;

BEHAVIOUR

rncFunction R55-managed Element Behaviour;

CREATE

WITH-REFERENCE-OBJECT, WITH-AUTOMATIC-INSTANCE-NAMING;

DELETE

ONLY-IF-NO-CONTAINED-OBJECTS;

REGISTERED AS {ts32-644NameBinding 15};

rncFunctionR55-managedElementBehaviour BEHAVIOUR

DEFINED AS

"The name binding represents a relationship in which a managedElement contains and controls a rncFunctionR55. When automatic instance naming is used, the choice of name bindings is left as a local matter.";

-- 5.4.2 nodeBFunction - managedElement

nodeBFunction-managedElement NAME BINDING

SUBORDINATE OBJECT CLASS

nodeBFunction;

NAMED BY SUPERIOR OBJECT CLASS

"3GPP TS 32.624": managedElement;

WITH ATTRIBUTE

nodeBFunctionId:

BEHAVIOUR

nodeBFunction-managedElementBehaviour;

CREATE

WITH-REFERENCE-OBJECT, WITH-AUTOMATIC-INSTANCE-NAMING;

DELETE

ONLY-IF-NO-CONTAINED-OBJECTS;

REGISTERED AS {ts32-644NameBinding 2};

nodeBFunction-managedElementBehaviour BEHAVIOUR

DEFINED AS

"The name binding represents a relationship in which a managedElement contains and controls a nodeBFunction. When automatic instance naming is used, the choice of name bindings is left as a local matter.";

-- 5.4.3 utranCell - rncFunction

utranCellR0610-rncFunctionR55 NAME BINDING

SUBORDINATE OBJECT CLASS

utranCellR0610;

NAMED BY SUPERIOR OBJECT CLASS

rncFunctionR55;

WITH ATTRIBUTE

utranCellId;

BEHAVIOUR

utranCellR0610-rncFunctionR55Behaviour;

CREATE

WITH-REFERENCE-OBJECT, WITH-AUTOMATIC-INSTANCE-NAMING;

DELETE

ONLY-IF-NO-CONTAINED-OBJECTS;

REGISTERED AS {ts32-644NameBinding 30610};

utranCellR0610-rncFunctionR55Behaviour BEHAVIOUR

DEFINED AS

"The name binding represents a relationship in which a rncFunctionR55 contains and controls an utranCell. When automatic instance naming is used, the choice of name bindings is left as a local matter.";

-- 5.4.4 utranRelation - utranCell

utranRelationR0600-utranCellR0610 NAME BINDING

SUBORDINATE OBJECT CLASS

utranRelationR0600;

NAMED BY SUPERIOR OBJECT CLASS

utranCellR0610;

WITH ATTRIBUTE

utranRelationId;

BEHAVIOUR

utranRelationR0600-utranCellR0610Behaviour;

CREATE

WITH-REFERENCE-OBJECT, WITH-AUTOMATIC-INSTANCE-NAMING;

DELETE

ONLY-IF-NO-CONTAINED-OBJECTS;

REGISTERED AS {ts32-644NameBinding 40610};

utranRelationR0600-utranCellR0610Behaviour BEHAVIOUR

DEFINED AS

"The name binding represents a relationship in which an utranCell contains and controls an utranRelation. When automatic instance naming is used, the choice of name bindings is left as a local matter.";

-- 5.4.5 externalUtranCell - subNetwork

externalUtranCellR0620-subNetworkR60 NAME BINDING

SUBORDINATE OBJECT CLASS

externalUtranCellR0620;

NAMED BY SUPERIOR OBJECT CLASS

"3GPP TS 32.624": subNetworkR60;

WITH ATTRIBUTE

externalUtranCellId;

BEHAVIOUR

externalUtranCellR0600-subNetworkR60Behaviour;

CREATE

WITH-REFERENCE-OBJECT, WITH-AUTOMATIC-INSTANCE-NAMING;

DELETE

ONLY-IF-NO-CONTAINED-OBJECTS;

REGISTERED AS {ts32-644NameBinding 50620};

externalUtranCellR0600-subNetworkR60Behaviour BEHAVIOUR

DEFINED AS

"The name binding represents a relationship in which a subNetworkR60 contains and controls an externalUtranCellR0620. When automatic instance naming is used, the choice of name bindings is left as a local matter.";

-- 5.4.6 vsDataContainer - rncFunction

-- Void.

-- 5.4.7 vsDataContainer - nodeBFunction

- -- Void.
- -- 5.4.8 vsDataContainer utranCell
- -- Void.
- -- 5.4.9 vsDataContainer utranRelation
- -- Void.
- -- 5.4.10 jubLink rncFunction

iubLinkR0600-rncFunctionR55 NAME BINDING

SUBORDINATE OBJECT CLASS

iubLinkR0600;

NAMED BY SUPERIOR OBJECT CLASS

rncFunctionR55;

WITH ATTRIBUTE

iubLinkId;

BEHAVIOUR

iubLinkR0600-rncFunctionR55Behaviour;

CREATE

WITH-REFERENCE-OBJECT, WITH-AUTOMATIC-INSTANCE-NAMING;

DELETE

ONLY-IF-NO-CONTAINED-OBJECTS;

REGISTERED AS {ts32-644NameBinding 100600};

iubLinkR0600-rncFunctionR55Behaviour BEHAVIOUR

DEFINED AS

"The name binding represents a relationship in which a rncFunctionR55 contains and controls a iubLinkR0600. When automatic instance naming is used, the choice of name bindings is left as a local matter.";

-- 5.4.11 gsmRelation - utranCell

gsmRelation-utranCellR0610 NAME BINDING

SUBORDINATE OBJECT CLASS

"3GPP TS 32.654": gsmRelation;

NAMED BY SUPERIOR OBJECT CLASS

utranCellR0610;

WITH ATTRIBUTE

"3GPP TS 32.654": gsmRelationId;

BEHAVIOUR

gsmRelation-utranCellR0610Behaviour;

CREATE

WITH-REFERENCE-OBJECT, WITH-AUTOMATIC-INSTANCE-NAMING;

DELETE

ONLY-IF-NO-CONTAINED-OBJECTS;

REGISTERED AS {ts32-644NameBinding 110610};

gsmRelation-utranCellR0610Behaviour BEHAVIOUR

DEFINED AS

"The name binding represents a relationship in which an utranCell contains and controls a gsmRelation. When automatic instance naming is used, the choice of name bindings is left as a local matter.";

-- 5.4.12 antennaFunctionR0610 - managedElement

antennaFunctionR0610-managedElement NAME BINDING

SUBORDINATE OBJECT CLASS

antennaFunctionR0610;

NAMED BY SUPERIOR OBJECT CLASS

"3GPP TS 32.624": managedElement;

WITH ATTRIBUTE

antennaFunctionIdR0610;

BEHAVIOUR

antennaFunctionR0610-managedElementBehaviour;

CREATE

WITH-REFERENCE-OBJECT, WITH-AUTOMATIC-INSTANCE-NAMING;

DELETE

ONLY-IF-NO-CONTAINED-OBJECTS;

REGISTERED AS {ts32-644NameBinding 200610};

antennaFunctionR0610-managedElementBehaviour BEHAVIOUR

DEFINED AS

"The name binding represents a relationship in which a managedElement contains and controls a antennaFunctionR0610. When automatic instance naming is used, the choice of name bindings is left as a local matter.";

-- 5.4.13 externalRncFunction - subNetwork

externalRncFunction-subNetworkR60 NAME BINDING

SUBORDINATE OBJECT CLASS

externalRncFunction;

NAMED BY SUPERIOR OBJECT CLASS

"3GPP TS 32.624": subNetworkR60:

WITH ATTRIBUTE

externalRncFunctionId;

BEHAVIOUR

external Rnc Function-sub Network R60 Behaviour;

CREATE

WITH-REFERENCE-OBJECT, WITH-AUTOMATIC-INSTANCE-NAMING;

DELETE

ONLY-IF-NO-CONTAINED-OBJECTS;

REGISTERED AS {ts32-644NameBinding 130620};

externalRncFunction-subNetworkR60Behaviour BEHAVIOUR

DEFINED AS

"The name binding represents a relationship in which a subNetworkR60 contains and controls a externalRncFunction. When automatic instance naming is used, the choice of name bindings is left as a local matter.";

DEFINITIONS IMPLICIT TAGS ::=

6 ASN.1 Definitions

TS32-644TypeModule {ccitt(0) identified-organization(4) etsi(0) mobileDomain(0) umts-Operation-Maintenance(3) ts32-644(644) informationModel(0) asn1Module(2) version10610(10610)}

```
BEGIN
-- EXPORTS everything
IMPORTS
GeneralObjectId, GeneralObjectPointer, GeneralObjectPointerList
 FROM TS32-624TypeModule {ccitt(0) identified-organization(4) etsi(0) mobileDomain(0)
 umts-Operation-Maintenance(3) ts32-624(624) informationModel(0) asn1Module(2) version1(1)}
MobileCountryCode, MobileNetworkCode, LocationAreaCode
 FROM GSM1220TypeModule {ccitt(0) identified-organization(4) etsi(0) mobileDomain(0)
 gsm-Operation-Maintenance(3) gsm-12-20(20) informationModel(0) asn1Module(2)
 asn1TypeModule(0)};
-- 3GPP TS 32.644 related Object Identifiers
baseNodeUMTS\\
                     OBJECT IDENTIFIER ::= {itu-t(0) identified-organization(4) etsi(0)
                         mobileDomain(0) umts-Operation-Maintenance(3)}
ts32-644
                OBJECT IDENTIFIER ::= {baseNodeUMTS ts32-644(644)}
                    OBJECT IDENTIFIER ::= {ts32-644 informationModel(0)}
ts32-644InfoModel
ts32-644ObjectClass OBJECT IDENTIFIER ::= {ts32-644InfoModel managedObjectClass(3)}
ts32-644Package
                   OBJECT IDENTIFIER ::= {ts32-644InfoModel package(4)}
ts32-644Parameter
                    OBJECT IDENTIFIER ::= {ts32-644InfoModel parameter(5)}
ts32-644NameBinding OBJECT IDENTIFIER ::= {ts32-644InfoModel nameBinding(6)}
```

MaximumTransmissionPower ::= INTEGER

```
OBJECT IDENTIFIER ::= {ts32-644InfoModel attribute(7)}
ts32-644Attribute
ts32-644Action
                  OBJECT IDENTIFIER ::= {ts32-644InfoModel action(9)}
ts32-644Notification OBJECT IDENTIFIER ::= {ts32-644InfoModel notification(10)}
-- Start of 3GPP SA5 own definitions
Angle ::= INTEGER (0..359)
BchPower ::= INTEGER
CellMode ::= ENUMERATED
 {
 fddMode
                   (0),
 one-28McpsTDDMode
                          (1),
 three-84McpsTDDMode
                          (2)
 }
CellParameterId ::= INTEGER (0..127)
CId ::= INTEGER
ControlledCellList ::= GeneralObjectPointerList
ControllingRnc ::= GeneralObjectPointer
DwPchPower ::= INTEGER (-150..400)
Height ::= INTEGER
Lac ::= INTEGER
LocalCellId ::= INTEGER
```

```
PrimaryCcpchPower ::= INTEGER (-150..400)
PrimaryCpichPower ::= INTEGER
PrimarySchPower ::= INTEGER
PrimaryScramblingCode ::= INTEGER
Rac ::= INTEGER
RetGroupName ::= GraphicString
RncId ::= INTEGER
Sac ::= INTEGER
SchPower ::= INTEGER (-350..150)
SecondarySchPower ::= INTEGER
\textbf{TimeSlotDirection} ::= \texttt{ENUMERATED}
 {
      (0),
 ul
 dl
     (1)
 }
TimeSlotId ::= INTEGER
TimeSlotList ::= SET OF SEQUENCE
 {
 timeSlotId
                  TimeSlotId, -- range of timeSlotId: (0...6),
                      -- when applied to 1.28Mcps TDD Mode Cell
                      -- range of timeSlotId: (0...14),
                      -- when applied to 3.84Mcps TDD Mode Cell
```

```
timeSlotDirection TimeSlotDirection,
timeSlotStatus TimeSlotStatus
}

TimeSlotStatus ::= ENUMERATED
{
active (0),
not-active (1)
}

Uarfcn ::= INTEGER

UarfcnUl ::= INTEGER
```

UraList ::= SET OF INTEGER

 $END -- of \, TS32\text{-}644 Type Module \\$

Annex A (informative): List of assigned Object Identifiers

This annex provides a list with all object identifiers that have been assigned in TS 32.644 in Release 5 up to V5.6.0 and in Release 6 up to the latest version. These object identifiers shall not be assigned to new objects.

Basic Object Name	Name and OID of the current TS Version	Name and OIDs of previous TS Versions		
Managed Object Classes				
rncFunction	Name: rncFunctionR55 OID: ts32-644ObjectClass 8	Name: rncFunction OID: ts32-644ObjectClass 1		
utranCell	Name: utranCellR0610 OID: ts32-644ObjectClass 20610	Name: utranCellR55 OID: ts32-644ObjectClass 9 Name: utranCellR54 OID: ts32-644ObjectClass 7 Name: utranCell OID: ts32-644ObjectClass 2 Name: utranCellR0600 OID: ts32-644ObjectClass 20600		
utranRelation	Name: utranRelationR0600 OID: ts32-644ObjectClass 30600	Name: utranRelation OID: ts32-644ObjectClass 3		
externalUtranCell	Name: externalUtranCellI OID: ts32-644ObjectCla Name: externalUtranCellR0620 OID: ts32-644ObjectClass 40620 OID: ts32-644ObjectClass 40620 Name: externalUtranCellI OID: ts32-644ObjectCla			
iubLink	Name: iubLinkR0600 OID: ts32-644ObjectClass 50600	Name: iubLink OID: ts32-644ObjectClass		
nodeBFunction	Name: nodeBFunction OID: ts32-644ObjectClass 6			
antennaFunction	Name: antennaFunctionR0610 OID: ts32-644ObjectClass 70610			
externalRncFunction	Name: externalRncFunction OID: ts32-644ObjectClass 80620			
	Packages			
rncFunctionHandoverPackage	Name: rncFunctionHandoverPackageR55 OID: ts32-644Package 14	Name: rncFunctionHandoverPackage OID : ts32-644Package 1 Name: utranCellHandoverPackageR55		
utranCellHandoverPackage	Name: utranCellHandoverPackageR0600 OID: ts32-644Package 20600	Name: utranCeilHandoverPackageR55 OID: ts32-644Package 15 Name: utranCellHandoverPackageR54 OID: ts32-644Package 13 Name: utranCellHandoverPackage OID ts32-644Package 2		
utranRelationBasicPackage	Name: utranRelationBasicPackageR0600 OID: ts32-644Package 30600	Name: utranRelationBasicPackage OID: ts32-644Package 3		
utranRelationAssociationPackage	Name: utranRelationAssociationPackage OID ts32-644Package 4			
externalUtranCellPackage	Name: externalUtranCellPackageR0600 OID: ts32-644Package 50600	Name: externalUtranCellPackageR0506 OID: ts32-644Package 50506 Name: externalUtranCellPackage OID: ts32-644Package 5		
rncFunctionBasicPackage	Name: rncFunctionBasicPackage OID: ts32-644Package 6			
utranCellBasicPackage	Name: utranCellBasicPackage OID: ts32-644Package 7			
utranCellAssociationPackage	Name: utranCellAssociationPackage OID: ts32-644Package 8			
utranCellRetPackage	Name: utranCellRetPackageR0610 OID: ts32-644Package 210610			
iubLinkBasicPackage	Name: iubLinkBasicPackage OID: ts32-644Package 9			
iubLinkAssociationPackage	Name: iubLinkAssociationPackage OID: ts32-644Package 10			
nodeBFunctionBasicPackage	Name: nodeBFunctionBasicPackage OID: ts32-644Package 11			

nodeBFunctionAssociationPackage	Name: nodeBFunctionAssociationPackage OID: ts32-644Package 12		
utranFDDCellHandoverPackage	Name: utranFDDCellHandoverPackage OID: ts32-644Package 130600		
utran1-28McpsTDDCellHandoverPackage	Name: utran1-28McpsTDDCellHandoverPackage OID: ts32-644Package 140600		
utran3-84McpsTDDCellHandoverPackage	Name: utran3-84McpsTDDCellHandoverPackage OID: ts32-644Package 150600		
utranRelationFDDHandoverPackage	Name: utranRelationFDDHandoverPackage OID: ts32-644Package 160600		
utranRelationTDDHandoverPackage	Name: utranRelationTDDHandoverPackage OID: ts32-644Package 170600		
externalUtranFDDCellHandoverPackage	Name: externalUtranFDDCellHandoverPackage OID: ts32-644Package 180600		
externalUtranTDDCellHandoverPackage	Name: externalUtranTDDCellHandoverPackage OID: ts32-644Package 190600		
iubLink2aTMChannelTerminationPointAss ociationPackage	Name: iubLink2aTMChannelTerminationPointAssociation Package OID: ts32-644Package 200600		
antennaFunctionBasicPackage	Name: antennaFunctionBasicPackageR0610 OID: ts32-644Package 220610		
antennaFunctionOptionalPackage	Name: antennaFunctionOptionalPackageR0610 OID: ts32-644Package 230610		
externalUtranCellAssociationPackage	Name: externalUtranCellAssociationPackage OID: ts32-644Package 240620		
externalRncFunctionBasicPackage	Name: externalRncFunctionBasicPackage OID: ts32-644Package 250620		
externalRncFunctionAssociationPackage	Name: externalRncFunctionAssociationPackage OID: ts32-644Package 260620		
	Actions		
	Notifications		
	Attributes		
Mcc	Name: mcc OID: ts32-644Attribute 1		
Mnc	Name: mnc OID::ts32-644Attribute 2		
T.J	Name: rncIdR55	NY T1	
rncId		Name: rncId OID: ts32-644Attribute 3	
cId	OID: ts32-644Attribute 31 Name: cIdR55	OID: ts32-644Attribute 3 Name: cId	
	OID: ts32-644Attribute 31 Name: cIdR55 OID: ts32-644Attribute 32 Name: localCellIdR55	OID: ts32-644Attribute 3 Name: cId OID: ts32-644Attribute 4 Name: localCellId	
cId	OID: ts32-644Attribute 31 Name: cIdR55 OID: ts32-644Attribute 32 Name: localCellIdR55 OID: ts32-644Attribute 33 Name: uarfcnUl	OID : ts32-644Attribute 3 Name: cId OID : ts32-644Attribute 4	
cId localCellId	OID: ts32-644Attribute 31 Name: cIdR55 OID: ts32-644Attribute 32 Name: localCellIdR55 OID: ts32-644Attribute 33 Name: uarfcnUl OID: ts32-644Attribute 6 Name: uarfcnDl	OID: ts32-644Attribute 3 Name: cId OID: ts32-644Attribute 4 Name: localCellId OID: ts32-644Attribute 5	
cId localCellId uarfcnUl	OID: ts32-644Attribute 31 Name: cIdR55 OID: ts32-644Attribute 32 Name: localCellIdR55 OID: ts32-644Attribute 33 Name: uarfcnUl OID: ts32-644Attribute 6 Name: uarfcnDl OID: ts32-644Attribute 7 Name: primaryScramblingCode	OID: ts32-644Attribute 3 Name: cId OID: ts32-644Attribute 4 Name: localCellId OID: ts32-644Attribute 5	
cId localCellId uarfcnUl uarfcnDl	OID: ts32-644Attribute 31 Name: cIdR55 OID: ts32-644Attribute 32 Name: localCellIdR55 OID: ts32-644Attribute 33 Name: uarfcnUl OID: ts32-644Attribute 6 Name: uarfcnDl OID: ts32-644Attribute 7 Name: primaryScramblingCode OID: ts32-644Attribute 8 Name: primaryCpichPower	OID: ts32-644Attribute 3 Name: cId OID: ts32-644Attribute 4 Name: localCellId OID: ts32-644Attribute 5	
cId localCellId uarfcnUl uarfcnDl primaryScramblingCode	OID: ts32-644Attribute 31 Name: cIdR55 OID: ts32-644Attribute 32 Name: localCellIdR55 OID: ts32-644Attribute 33 Name: uarfcnUl OID: ts32-644Attribute 6 Name: uarfcnDl OID: ts32-644Attribute 7 Name: primaryScramblingCode OID: ts32-644Attribute 8 Name: primaryCpichPower OID: ts32-644Attribute 9 Name: maximumTransmissionPower	OID: ts32-644Attribute 3 Name: cId OID: ts32-644Attribute 4 Name: localCellId OID: ts32-644Attribute 5	
cId localCellId uarfcnUl uarfcnDl primaryScramblingCode primaryCpichPower	OID: ts32-644Attribute 31 Name: cIdR55 OID: ts32-644Attribute 32 Name: localCellIdR55 OID: ts32-644Attribute 33 Name: uarfcnUl OID: ts32-644Attribute 6 Name: uarfcnDl OID: ts32-644Attribute 7 Name: primaryScramblingCode OID: ts32-644Attribute 8 Name: primaryCpichPower OID: ts32-644Attribute 9 Name: maximumTransmissionPower OID: ts32-644Attribute 10 Name: primarySchPower	OID: ts32-644Attribute 3 Name: cId OID: ts32-644Attribute 4 Name: localCellId OID: ts32-644Attribute 5	
cId localCellId uarfcnUl uarfcnDl primaryScramblingCode primaryCpichPower maximumTransmissionPower	OID: ts32-644Attribute 31 Name: cIdR55 OID: ts32-644Attribute 32 Name: localCellIdR55 OID: ts32-644Attribute 33 Name: uarfcnUl OID: ts32-644Attribute 6 Name: uarfcnDl OID: ts32-644Attribute 7 Name: primaryScramblingCode OID: ts32-644Attribute 8 Name: primaryCpichPower OID: ts32-644Attribute 9 Name: maximumTransmissionPower OID: ts32-644Attribute 10 Name: primarySchPower OID: ts32-644Attribute 11 Name: secondarySchPower	OID: ts32-644Attribute 3 Name: cId OID: ts32-644Attribute 4 Name: localCellId OID: ts32-644Attribute 5	
cId localCellId uarfcnUl uarfcnDl primaryScramblingCode primaryCpichPower maximumTransmissionPower primarySchPower	OID: ts32-644Attribute 31 Name: cIdR55 OID: ts32-644Attribute 32 Name: localCellIdR55 OID: ts32-644Attribute 33 Name: uarfcnUl OID: ts32-644Attribute 6 Name: uarfcnDl OID: ts32-644Attribute 7 Name: primaryScramblingCode OID: ts32-644Attribute 8 Name: primaryCpichPower OID: ts32-644Attribute 9 Name: maximumTransmissionPower OID: ts32-644Attribute 10 Name: primarySchPower OID: ts32-644Attribute 11 Name: secondarySchPower OID: ts32-644Attribute 11 Name: secondarySchPower OID: ts32-644Attribute 12 Name: bchPower	OID: ts32-644Attribute 3 Name: cId OID: ts32-644Attribute 4 Name: localCellId OID: ts32-644Attribute 5	
cId localCellId uarfcnUl uarfcnDl primaryScramblingCode primaryCpichPower maximumTransmissionPower primarySchPower secondarySchPower	OID: ts32-644Attribute 31 Name: cIdR55 OID: ts32-644Attribute 32 Name: localCellIdR55 OID: ts32-644Attribute 33 Name: uarfcnUl OID: ts32-644Attribute 6 Name: uarfcnDl OID: ts32-644Attribute 7 Name: primaryScramblingCode OID: ts32-644Attribute 8 Name: primaryCpichPower OID: ts32-644Attribute 9 Name: maximumTransmissionPower OID: ts32-644Attribute 10 Name: primarySchPower OID: ts32-644Attribute 11 Name: secondarySchPower OID: ts32-644Attribute 11	OID: ts32-644Attribute 3 Name: cId OID: ts32-644Attribute 4 Name: localCellId OID: ts32-644Attribute 5	
cId localCellId uarfcnUl uarfcnDl primaryScramblingCode primaryCpichPower maximumTransmissionPower primarySchPower secondarySchPower	OID: ts32-644Attribute 31 Name: cIdR55 OID: ts32-644Attribute 32 Name: localCellIdR55 OID: ts32-644Attribute 33 Name: uarfcnUl OID: ts32-644Attribute 6 Name: uarfcnDl OID: ts32-644Attribute 7 Name: primaryScramblingCode OID: ts32-644Attribute 8 Name: primaryCpichPower OID: ts32-644Attribute 9 Name: maximumTransmissionPower OID: ts32-644Attribute 10 Name: primarySchPower OID: ts32-644Attribute 11 Name: secondarySchPower OID: ts32-644Attribute 12 Name: bchPower OID: ts32-644Attribute 12 Name: bchPower OID: ts32-644Attribute 13 Name: lac	OID : ts32-644Attribute 3 Name: cId OID : ts32-644Attribute 4 Name: localCellId OID : ts32-644Attribute 5	
cId localCellId uarfcnUl uarfcnDl primaryScramblingCode primaryCpichPower maximumTransmissionPower primarySchPower secondarySchPower bchPower Lac	OID: ts32-644Attribute 31 Name: cIdR55 OID: ts32-644Attribute 32 Name: localCellIdR55 OID: ts32-644Attribute 33 Name: uarfcnUl OID: ts32-644Attribute 6 Name: uarfcnDl OID: ts32-644Attribute 7 Name: primaryScramblingCode OID: ts32-644Attribute 8 Name: primaryCpichPower OID: ts32-644Attribute 9 Name: maximumTransmissionPower OID: ts32-644Attribute 10 Name: primarySchPower OID: ts32-644Attribute 11 Name: secondarySchPower OID: ts32-644Attribute 12 Name: bchPower OID: ts32-644Attribute 13 Name: lac OID: ts32-644Attribute 14 Name: rac OID: ts32-644Attribute 15 Name: sac	OID : ts32-644Attribute 3 Name: cId OID : ts32-644Attribute 4 Name: localCellId OID : ts32-644Attribute 5	
cId localCellId uarfcnUl uarfcnDl primaryScramblingCode primaryCpichPower maximumTransmissionPower primarySchPower secondarySchPower bchPower Lac Rac	OID: ts32-644Attribute 31 Name: cIdR55 OID: ts32-644Attribute 32 Name: localCellIdR55 OID: ts32-644Attribute 33 Name: uarfcnUl OID: ts32-644Attribute 6 Name: uarfcnDl OID: ts32-644Attribute 7 Name: primaryScramblingCode OID: ts32-644Attribute 8 Name: primaryCpichPower OID: ts32-644Attribute 9 Name: maximumTransmissionPower OID: ts32-644Attribute 10 Name: primarySchPower OID: ts32-644Attribute 11 Name: secondarySchPower OID: ts32-644Attribute 12 Name: bchPower OID: ts32-644Attribute 13 Name: lac OID: ts32-644Attribute 14 Name: rac OID: ts32-644Attribute 15	OID : ts32-644Attribute 3 Name: cId OID : ts32-644Attribute 4 Name: localCellId OID : ts32-644Attribute 5	

relationType		Name: relationType OID: ts32-644Attribute 19		
adjacentCell	Name: adjacentCell OID: ts32-644Attribute 20			
externalUtranCellId	Name: externalUtranCellId OID: ts32-644Attribute 21			
rncFunctionId	Name: rncFunctionId OID: ts32-644Attribute 22			
utranCellId	Name: utranCellId OID: ts32-644Attribute 23			
utranCell2iubLink	Name: utranCell2iubLink OID: ts32-644Attribute 24			
iubLinkId	Name: iubLinkId			
iubLink2nodeBFunction	OID: ts32-644Attribute 25 Name: iubLink2nodeBFunction			
iubLink2utranCell	OID : ts32-644Attribute 26 Name: iubLink2utranCell	<u> </u>		
nodeBFunctionId	OID : ts32-644Attribute 27 Name: nodeBFunctionId			
	OID: ts32-644Attribute 28 Name: nodeB2iubLink			
nodeB2iubLink	OID: ts32-644Attribute 29 Name: uraList			
uraList	OID: ts32-644Attribute 30	-		
Uarfcn	Name: uarfcn OID: ts32-644Attribute 310600			
cellParameterId	Name: cellParameterId OID: ts32-644Attribute 320600			
primaryCcpchPower	Name: primaryCcpchPower OID: ts32-644Attribute 330600			
dwPchPower	Name: dwPchPower OID: ts32-644Attribute 340600			
timeSlotList	Name: timeSlotList OID: ts32-644Attribute 350600			
schPower	Name: schPower			
cellMode	OID: ts32-644Attribute 360600 Name: cellMode			
	OID: ts32-644Attribute 370600 Name:			
iubLink2aTMChannelTerminationPoint	iubLink2aTMChannelTerminationPoint OID: ts32-644Attribute 380600			
retAntennaFunctionList	Name: retAntennaFunctionListR0610 OID: ts32-644Attribute 390610			
antennaFunctionId	Name: antennaFunctionIdR0610 OID: ts32-644Attribute 400610			
retUtranCellList	Name: retUtranCellListR0610 OID: ts32-644Attribute 410610			
retTiltValue	Name: retTiltValueR0610 OID: ts32-644Attribute 420610			
compassDirection	Name: compassDirectionR0610 OID: ts32-644Attribute 430610			
maxTiltValue	Name: maxTiltValueR0610 OID: ts32-644Attribute 440610			
minTiltValue	Name: minTiltValueR0610 OID: ts32-644Attribute 450610			
mechanicalOffset	Name: mechanicalOffsetR0610 OID: ts32-644Attribute 460610			
retGroupName	Name: retGroupNameR0610 OID: ts32-644Attribute 470610			
height	Name: heightR0610 OID: ts32-644Attribute 480610			
	Name: controllingRnc			
controllingRnc	OID: ts32-644Attribute 490620			

	N	<u> </u>			
	Name: controlledCellList				
controlledCellList	OID: ts32-644Attribute 500620				
externalRncFunctionId	Name: externalRncFunctionId OID: ts32-644Attribute 510620				
Parameters					
Name Bindings					
rncFunction-managedElement	Name: rncFunctionR55-managedElement OID: ts32-644NameBinding 15	Name: rncFunction-managedElement OID: ts32-644NameBinding 1			
nodeBFunction-managedElement	Name: nodeBFunction-managedElement OID: ts32-644NameBinding 2				
utranCell-rncFunction	Name: utranCellR0610-rncFunctionR55 OID: ts32-644NameBinding 30610	Name: utranCellR55-rncFunctionR55 OID: ts32-644NameBinding 17 Name: utranCellR54-rncFunction OID: ts32-644NameBinding 12 Name: utranCell-rncFunction OID: ts32-644NameBinding 3 Name: utranCellR0600-rncFunctionR55 OID: ts32-644NameBinding 30600			
utranRelation-utranCell	Name: utranRelationR0600-utranCellR0610 OID: ts32-644NameBinding 40610	Name: utranRelation-utranCellR55 OID: ts32-644NameBinding 18 Name: utranRelation-utranCellR54 OID: ts32-644NameBinding 13 Name: utranRelation-utranCell OID: ts32-644NameBinding 4 Name: utranRelationR0600-utranCellR0600 OID: ts32-644NameBinding 40600			
externalUtranCell - subNetwork	Name: externalUtranCellR0600-subNetworkR60 OID: ts32-644NameBinding 50620	Name: externalUtranCellR0506-subNetwork OID: ts32-644NameBinding 50506 Name: externalUtranCell-subNetwork OID: ts32-644NameBinding 5 Name: externalUtranCellR0600-subNetwork OID: ts32-644NameBinding 50600			
vsDataContainer-rncFunction		Name: vsDataContainer-rncFunction			
vsDataContainer-nodeBFunction		OID: ts32-644NameBinding 6 Name: vsDataContainer-nodeBFunction			
vsDataContainer-utranCell		OID: ts32-644NameBinding 7 Name: vsDataContainer-utranCell			
		OID :: ts32-644NameBinding 8 Name: vsDataContainer-utranRelation			
vsDataContainer-utranRelation		OID: ts32-644NameBinding 9 Name: iubLink-rncFunctionR55			
iubLink-rncFunction	Name: iubLinkR0600-rncFunctionR55 OID: ts32-644NameBinding 100600	Name: iubLink-mcFunctionR55 OID: ts32-644NameBinding 16 Name: iubLink-mcFunction OID: ts32-644NameBinding 10			
gsmRelation-utranCell Name: gsmRelation-utranCellR0610 OID: ts32-644NameBinding 110610		Name: gsmRelation-utranCellR55 OID: ts32-644NameBinding 19 Name: gsmRelation-utranCellR54 OID: ts32-644NameBinding 14 Name: gsmRelation-utranCell OID: ts32-644NameBinding 11 Name: gsmRelation-utranCellR0600 OID: ts32-644NameBinding 110600			
antennaFunction-managedElement	Name: antennaFunctionR0610-managedElement OID: ts32-644NameBinding 200610				
externalRncFunction-subNetwork	Name: externalRncFunction-subNetworkR60 OID: ts32-644NameBinding 130620				

Annex B (informative): Change history

	Change history						
Date	TSG #	TSG Doc.	CR	Rev	Subject/Comment	Old	New
Jun 2001	SA_12	SP-010283			Approved at TSG SA #12 and placed under Change Control	2.0.0	4.0.0
Sep 2001	SA_13	SP-010478	0001		Correction due to TS renumbering	4.0.0	4.1.0
Sep 2002					Cosmetics/Styles	4.1.0	4.1.1
Dec 2002	SA_18	SP-020749	0007		Alignment of the CMIP SS with the Rel-5 version of the IS in 32.642	4.1.1	5.0.0
Jun 2003	SA_20	SP-030283	0003		Removal of relationType	5.0.0	5.1.0
Sep 2003	SA_21	SP-030420	0004		Correction of wrong attribute name	5.1.0	5.2.0
Dec 2003	SA_22	SP-030646	0009		Correction of the number of possible URAs from 1 to 8	5.2.0	5.3.0
Dec 2003	SA_22	SP-030642	0010		Add notifications to functional objects - Align with 32.642 (IS)	5.2.0	5.3.0
Mar 2004	SA_23	SP-040132	0011	-	Correction of OIDs of the MOCs, packages and attributes affected by the change from ura to uraList	5.3.0	5.4.0
Jun 2004	SA_24	SP-040255	0012		Correction of type of the attributes cld, localCellId and rncld	5.4.0	5.5.0
Jun 2004	SA_24	SP-040254	0013		The specification does not support all UMTS frequency bands	5.4.0	5.5.0
Sep 2004	SA_25	SP-040591	0014	-	Correction of the types of the attributes cld, localCellId and rncld	5.5.0	5.6.0
Dec 2004	SA_26	SP-040810	0015		Add support for the TDD mode, the state change notification and ATM management – Align with 32.642	5.6.0	6.0.0
Mar 2005	SA_27	SP-050048	0016		Add RET support – Align with 32.642 Configuration Management UTRAN network resources IRP NRM	6.0.0	6.1.0
Jun 2005	SA_28	SP-050297	0017		Add ExternalRncFunction Object Class - Align with the IS in TS 32.622	6.1.0	6.2.0

History

Document history				
V6.0.0	December 2004	Publication		
V6.1.0	March 2005	Publication		
V6.2.0	June 2005	Publication		