3GPP TS 32.644 V6.3.0 (2006-09)

Technical Specification

3rd Generation Partnership Project;
Technical Specification Group Services and System Aspects;
Telecommunication management;
Configuration Management (CM);
UTRAN network resources Integration Reference Point (IRP):
Common Management Information Protocol (CMIP)
Solution Set (SS)
(Release 6)

Keywords
UMTS, management, CMIP

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Contents

Foreword

This Technical Specification has been produced by the 3rd Generation Partnership Project (3GPP).

The contents of the present document are subject to continuing work within the TSG and may change following formal TSG approval. Should the TSG modify the contents of the present document, it will be re-released by the TSG with an identifying change of release date and an increase in version number as follows:

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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.

Table : Mapping of IOCs

IS IOC	CMIP SS MOC
RncFunction	rncFunctionR55
NodeBFunction	nodeBFunction
UtranCell	utranCellR0630
IubLink	iubLinkR0600
UtranRelation	utranRelationR0630
ExternalUtranCell	externalUtranCellR0630
AntennaFunction	antennaFunctionR0630
ExternalRncFunction	externalRncFunction

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	M	M	--
userLabel	userLabel (ITU-T Rec. M.3100 [9])	M	M	M
mcc	mcc	M	M	M
mnc	mnc	M	M	M
rncId	rncIdR55	M	M	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	M	--
userLabel	userLabel (ITU-T Rec. M.3100 [9])	M	M	M
nodeBFunction-IubLink	NodeBFunction2iubLink	M	M	--

4.2.2.3 Attribute Mapping of the IOC *UtranCell*

IS Attribute	CMIP SS Attribute	Support Qualifier	Read Qualifier	Write Qualifier
utranCellId	utranCellId	M	M	--
userLabel	userLabel (ITU-T Rec. M.3100 [9])	M	M	M
cId	cIdR55	M	M	M
localCellId	localCellIdR55	M	M	M
uarfcnDl	uarfcnDlR630	O	M	M
uarfcnUl	uarfcnUlR630	O	M	M
primaryScramblingCode	primaryScramblingCodeR630	O	M	M
primaryCpichPower	primaryCpichPowerR630	O	M	M
retAntennaFunctionList	retAntennaFunctionListR0610	O	M	M
maximumTransmissionPower	maximumTransmissionPowerR630	M	M	M
primarySchPower	primarySchPowerR630	O	M	M
secondarySchPower	secondarySchPowerR630	O	M	M
bchPower	bchPowerR630	O	M	M
cellMode	cellMode	M	M	--
uarfcn	uarfcnR630	O	M	M
cellParameterId	cellParameterId	O	M	M
primaryCcpchPower	primaryCcpchPower	O	M	M
dwPchPower	dwPchPower	O	M	M
timeSlotList	timeSlotList	O	M	M
schPower	schPower	O	M	M
lac	lacR630	M	M	M
rac	racR630	M	M	M
sac	sacR630	M	M	M
uraList	uraListR630	M	M	M
utranCell-IubLink	utranCell2iubLink	M	M	M
operationalState	operationalState	O	M	--

4.2.2.4 Attribute Mapping of the IOC *IubLink*

IS Attribute	CMIP SS Attribute	Support Qualifier	Read Qualifier	Write Qualifier
iubLinkId	iubLinkId	M	M	--
userLabel	userLabel (ITU-T Rec. M.3100 [9])	M	M	M
iubLink-UtranCell	iubLink2utranCell	M	M	M
iubLink-NodeBFunction	iubLink2nodeBFunction	M	M	--
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	M	M	--
cellMode	cellMode	M	M	M
adjacentCell	adjacentCell	M	M	--
uarfcnUl	uarfcnUlR630	O	M	--
uarfcnDl	uarfcnDlR630	O	M	--
primaryScramblingCode	primaryScramblingCodeR630	O	M	--
primaryCpichPower	primaryCpichPowerR630	O	M	--
lac	lacR630	O	M	--
uarfcn	uarfcnR630	O	M	--
cellParameterId	cellParameterId	O	M	--
primaryCcpchPower	primaryCcpchPower	O	M	--

4.2.2.6 Attribute Mapping of the IOC *ExternalUtranCell*

IS Attribute	CMIP SS Attribute	Support Qualifier	Read Qualifier	Write Qualifier
externalUtranCellId	externalUtranCellIdR630	M	M	--
userLabel	userLabel	M	M	M
cId	cIdR55	M	M	M
mcc	mcc	M	M	M
mnc	mnc	M	M	M
rncId	rncIdR55	M	M	M
cellMode	cellMode	M	M	--
uarfcnUl	uarfcnUlR630	O	M	M
uarfcnDl	uarfcnDlR630	O	M	M
primaryScramblingCode	primaryScramblingCodeR630	O	M	M
primaryCpichPower	primaryCpichPowerR630	O	M	M
uarfcn	uarfcnR630	O	M	M
cellParameterId	cellParameterId	O	M	M
primaryCcpchPower	primaryCcpchPower	O	M	M
lac	lacR630	M	M	M
rac	racR630	M	M	M
controllingRnc	controllingRnc	O	M	--

4.2.2.7 Attribute Mapping of the IOC *AntennaFunction*

IS Attribute	CMIP SS Attribute	Support Qualifier	Read Qualifier	Write Qualifier
antennaFunctionId	antennaFunctionIdR0610	O	M	--
userLabel	userLabel (ITU-T Rec. M.3100 [9])	O	M	M
retUtranCellList	retUtranCellListR0610	O	M	M
retTiltValue	retTiltValueR0610	O	M	M
bearing	bearing	O	M	M
maxTiltValue	maxTiltValueR0610	O	M	M
minTiltValue	minTiltValueR0610	O	M	M
mechanicalOffset	mechanicalOffsetR0610	O	M	M
retGroupName	retGroupNameR0630	O	M	M
height	heightR0610	O	M	M
baseElevation	baseElevation	O	M	O
latitude	latitude	O	M	O
longitude	longitude	O	M	M
maxAzimuthValue	maxAzimuthValue	O	M	M
minAzimuthValue	minAzimuthValue	O	M	M
horizBeamwidth	horizBeamwidth	O	M	M
vertBeamwidth	vertBeamwidth	O	M	M
patternLabel	patternLabel	O	M	O

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	M
mcc	mcc	M	M	M
mnc	mnc	M	M	M
rncId	rncIdR55	M	M	M
controlledCellList	controlledCellList	O	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	utranCellR0630-rncFunctionR55
utranRelation-utranCell	utranRelationR0630-utranCellR0630
externalUtranCell-subNetwork	externalUtranCellR0630-subNetworkR60
iubLink-rncFunction	iubLink-rncFunctionR55
gsmRelation-utranCell	gsmRelation-utranCellR0630
antennaFunction-managedElement	antennaFunctionR0630-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.
```

-- 5.1.1 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

```
utranCellR0630 MANAGED OBJECT CLASS
   DERIVED FROM
      "3GPP TS 32.624": managedFunction;
   CHARACTERIZED BY
      utranCellBasicPackage,
      utranCellHandoverPackageR0630,
      utranCellAssociationPackage,
      "3GPP TS 32.111-4": x721AlarmNotificationsPackage;
   CONDITIONAL PACKAGES
      utranFDDCellHandoverPackageR630
         PRESENT IF
           "FDD handover attributes are supported by an instance of this class.",
      utran1-28McpsTDDCellHandoverPackageR630
         PRESENT IF
           "1.28 Mcps TDD handover attributes are supported by an instance of this class.",
      utran3-84McpsTDDCellHandoverPackageR630
         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 20630};
```

-- 5.1.3 utranRelation

```
utranRelationR0630 MANAGED OBJECT CLASS
   DERIVED FROM
      "Rec. X.721 | ISO/IEC 10165-2 : 1992":top;
   CHARACTERIZED BY
      utranRelationBasicPackageR0600,
```

```
      utranRelationAssociationPackage;
   CONDITIONAL PACKAGES
      utranRelationFDDHandoverPackageR630
          PRESENT IF
             "FDD handover attributes are supported by an instance of this class.",
      utranRelationTDDHandoverPackageR630
          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 30630};
```

-- 5.1.4 externalUtranCell

```
externalUtranCellR0630 MANAGED OBJECT CLASS
   DERIVED FROM
      "3GPP TS 32.624": managedFunction;
   CHARACTERIZED BY
      externalUtranCellPackageR0630;
   CONDITIONAL PACKAGES
      externalUtranFDDCellHandoverPackageR630
          PRESENT IF
             "FDD handover attributes are supported by an instance of this class.",
      externalUtranTDDCellHandoverPackageR630
          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 40630};
```

-- 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
      iubLink2aTMChannelTerminationPointAssociationPackage
          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

```
antennaFunctionR0630 MANAGED OBJECT CLASS
   DERIVED FROM
      "3GPP TS 32.624": managedFunction;
   CHARACTERIZED BY
      antennaFunctionBasicPackageR0610,
      "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.",
      antennaFunctionOptionalPackageR0630
          PRESENT IF
             "the optional attributes are supported by an instance of this class.";
REGISTERED AS {ts32-644ObjectClass 70630};
```

-- 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.",
      externalRncFunctionAssociationPackage
          PRESENT IF
             "an instance supports it";
REGISTERED AS {ts32-644ObjectClass 80620};
```

-- 5.2 Packages

-- 5.2.1 rncFunctionHandoverPackage

```
rncFunctionHandoverPackageR55 PACKAGE
   BEHAVIOUR
      rncFunctionHandoverPackageR55Behaviour;
   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

```
utranCellHandoverPackageR0630 PACKAGE
   BEHAVIOUR
      utranCellHandoverPackageR0630Behaviour;
   ATTRIBUTES
      cIdR55                        GET-REPLACE,
      localCellIdR55                GET-REPLACE,
      maximumTransmissionPowerR630  GET-REPLACE,
      cellMode                      GET,
      lacR630                       GET-REPLACE,
      racR630                       GET-REPLACE,
      sacR630                       GET-REPLACE,
      uraListR630                   GET-REPLACE;
REGISTERED AS {ts32-644Package 20630};

utranCellHandoverPackageR0630Behaviour 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
      utranRelationBasicPackageR0600Behaviour;
   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

```
externalUtranCellPackageR0630 PACKAGE
   BEHAVIOUR
      externalUtranCellPackageR0630Behaviour;
   ATTRIBUTES
      externalUtranCellIdR630    GET,
      cIdR55                     GET-REPLACE,
      mcc                        GET-REPLACE,
      mnc                        GET-REPLACE,
      rncIdR55                   GET-REPLACE,
      cellMode                   GET,
      lacR630                    GET-REPLACE,
      racR630                    GET-REPLACE;
REGISTERED AS {ts32-644Package 50630};
```

```
externalUtranCellPackageR0630Behaviour 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
      utranCellBasicPackageBehaviour;
   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};

iubLinkBasicPackageBehaviour 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
      iubLinkAssociationPackageBehaviour;
   ATTRIBUTES
      iubLink2nodeBFunction      GET,
      iubLink2utranCell          GET;
REGISTERED AS {ts32-644Package 10};

iubLinkAssociationPackageBehaviour 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
      nodeBFunctionAssociationPackageBehaviour;
   ATTRIBUTES
      nodeB2iubLink      GET;
REGISTERED AS {ts32-644Package 12};

nodeBFunctionAssociationPackageBehaviour BEHAVIOUR
DEFINED AS
   "The attribute 'nodeB2iubLink' points to the iubLink instance
    which connects to this nodeBFunction instance directly.";
```

-- 5.2.13 utranFDDCellHandoverPackage

```
utranFDDCellHandoverPackageR630 PACKAGE
   BEHAVIOUR
      utranFDDCellHandoverPackageR630Behaviour;
   ATTRIBUTES
      uarfcnUlR630               GET-REPLACE,
      uarfcnDlR630               GET-REPLACE,
      primaryScramblingCodeR630  GET-REPLACE,
      primaryCpichPowerR630      GET-REPLACE,
      primarySchPowerR630        GET-REPLACE,
      secondarySchPowerR630      GET-REPLACE,
      bchPowerR630               GET-REPLACE;
REGISTERED AS {ts32-644Package 130630};

utranFDDCellHandoverPackageBehaviourR630 BEHAVIOUR
DEFINED AS
   "This package contains the attributes of UtranCell required for handover management
    in the FDD mode.";
```

-- 5.2.14 utran1-28McpsTDDCellHandoverPackage

```
utran1-28McpsTDDCellHandoverPackageR630 PACKAGE
   BEHAVIOUR
      utran1-28McpsTDDCellHandoverPackageR630Behaviour;
   ATTRIBUTES
      uarfcnR630            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

```
utran3-84McpsTDDCellHandoverPackageR630 PACKAGE
   BEHAVIOUR
      utran3-84McpsTDDCellHandoverPackageR630Behaviour;
```

```
   ATTRIBUTES
      uarfcnR630             GET-REPLACE,
      cellParameterId        GET-REPLACE,
      primaryCcpchPower      GET-REPLACE,
      schPower               GET-REPLACE,
      timeSlotList           GET-REPLACE;
REGISTERED AS {ts32-644Package 150630};

utran3-84McpsTDDCellHandoverPackageR630Behaviour 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

```
utranRelationFDDHandoverPackageR630 PACKAGE
   BEHAVIOUR
      utranRelationFDDHandoverPackageR630Behaviour;
   ATTRIBUTES
      uarfcnUlR630              GET,
      uarfcnDlR630              GET,
      primaryScramblingCodeR630 GET,
      primaryCpichPowerR630     GET,
      lac630                    GET;
REGISTERED AS {ts32-644Package 160630};

utranRelationFDDHandoverPackageR630Behaviour BEHAVIOUR
DEFINED AS
   "This package contains the attributes of an utranRelation required for FDD handover management.";
```

-- 5.2.17 utranRelationTDDHandoverPackage

```
utranRelationTDDHandoverPackageR630 PACKAGE
   BEHAVIOUR
      utranRelationTDDHandoverPackageR630Behaviour;
   ATTRIBUTES
      uarfcnR630             GET,
      cellParameterId        GET,
      primaryCcpchPower      GET,
      lacR630                GET;
REGISTERED AS {ts32-644Package 170630};

utranRelationTDDHandoverPackageR630Behaviour BEHAVIOUR
DEFINED AS
   "This package contains the attributes of an utranRelation required for TDD handover management.";
```

-- 5.2.18 externalUtranFDDCellHandoverPackage

```
externalUtranFDDCellHandoverPackageR630 PACKAGE
   BEHAVIOUR
      externalUtranFDDCellHandoverPackageR630Behaviour;
   ATTRIBUTES
      uarfcnUlR630              GET-REPLACE,
      uarfcnDlR630              GET-REPLACE,
      primaryScramblingCodeR630 GET-REPLACE,
      primaryCpichPowerR630     GET-REPLACE;
REGISTERED AS {ts32-644Package 180630};

externalUtranFDDCellHandoverPackageR630Behaviour BEHAVIOUR
DEFINED AS
   "This package contains the attributes of externalUtranCell required
    for FDD handover management.";
```

-- 5.2.19 externalUtranTDDCellHandoverPackage

```
externalUtranTDDCellHandoverPackageR630 PACKAGE
   BEHAVIOUR
      externalUtranTDDCellHandoverPackageR630Behaviour;
   ATTRIBUTES
      uarfcnR630            GET-REPLACE,
      cellParameterId       GET-REPLACE,
      primaryCcpchPower     GET-REPLACE;
REGISTERED AS {ts32-644Package 190630};
```

```
externalUtranTDDCellHandoverPackageR630Behaviour BEHAVIOUR
DEFINED AS
   "This package contains the attributes of externalUtranCell required
    for TDD handover management.";
```

-- 5.2.20 iubLink2aTMChannelTerminationPointAssociationPackage

```
iubLink2aTMChannelTerminationPointAssociationPackage PACKAGE
   BEHAVIOUR
      iubLink2aTMChannelTerminationPointAssociationPackageBehaviour;
   ATTRIBUTES
      iubLink2aTMChannelTerminationPoint     GET;
REGISTERED AS {ts32-644Package 200600};

iubLink2aTMChannelTerminationPointAssociationPackageBehaviour 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
      antennaFunctionIdR0610        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

```
antennaFunctionOptionalPackageR0630 PACKAGE
   BEHAVIOUR
      antennaFunctionOptionalPackageR0630Behaviour;
   ATTRIBUTES
      retUtranCellListR0610        GET-REPLACE,
      retTiltValueR0610            GET-REPLACE,

      maxTiltValueR0610            GET-REPLACE,
      minTiltValueR0610            GET-REPLACE,
      mechanicalOffsetR0610        GET-REPLACE,
      retGroupNameR0630            GET-REPLACE,
      heightR0610                  GET-REPLACE,
      bearing                      GET-REPLACE,
      baseElevation                GET-REPLACE,
      latitude                     GET-REPLACE,
      longitude                    GET-REPLACE,
      maxAzimuthValue              GET-REPLACE,
      minAzimuthValue              GET-REPLACE,
      horizBeamwidth               GET-REPLACE,
      vertBeamwidth                GET-REPLACE,
      patternLabel                 GET-REPLACE
      ;
```

```
REGISTERED AS {ts32-644Package 230630};

antennaFunctionOptionalPackageR0630Behaviour 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 rncId

```
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 cId

```
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

```
uarfcnUlR630 ATTRIBUTE
   WITH ATTRIBUTE SYNTAX
      TS32-644TypeModule.UarfcnUlR630;
   MATCHES FOR
      EQUALITY;
   BEHAVIOUR
      uarfcnUlR630Behaviour;
```

```
REGISTERED AS {ts32-644Attribute 60630};

uarfcnUlR630Behaviour 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

```
uarfcnDlR630 ATTRIBUTE
   WITH ATTRIBUTE SYNTAX
      TS32-644TypeModule.UarfcnDlR630;
   MATCHES FOR
      EQUALITY;
   BEHAVIOUR
      uarfcnDlR630Behaviour;
REGISTERED AS {ts32-644Attribute 70630};

uarfcnDlR630Behaviour 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

```
primaryScramblingCodeR630 ATTRIBUTE
   WITH ATTRIBUTE SYNTAX
      TS32-644TypeModule.PrimaryScramblingCodeR630;
   MATCHES FOR
      EQUALITY;
   BEHAVIOUR
      primaryScramblingCodeR630Behaviour;
REGISTERED AS {ts32-644Attribute 80630};

primaryScramblingCodeR630Behaviour BEHAVIOUR
DEFINED AS
   "The primary DL scrambling code used by the FDD mode cell (Ref. 3 GPP TS 25.433).";
```

-- 5.3.9 primaryCpichPower

```
primaryCpichPowerR630 ATTRIBUTE
   WITH ATTRIBUTE SYNTAX
      TS32-644TypeModule.PrimaryCpichPowerR630;
   MATCHES FOR
      EQUALITY;
   BEHAVIOUR
      primaryCpichPowerR630Behaviour;
REGISTERED AS {ts32-644Attribute 90630};

primaryCpichPowerR630Behaviour 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

```
maximumTransmissionPowerR630 ATTRIBUTE
   WITH ATTRIBUTE SYNTAX
      TS32-644TypeModule.MaximumTransmissionPowerR630;
   MATCHES FOR
      EQUALITY;
   BEHAVIOUR
      maximumTransmissionPowerR630Behaviour;
REGISTERED AS {ts32-644Attribute 10};

maximumTransmissionPowerR630Behaviour BEHAVIOUR
DEFINED AS
   "The maximum transmission power of a cell, DL Power (Ref. 3 GPP TS 25.433).";
```

-- 5.3.11 primarySchPower

```
primarySchPowerR630 ATTRIBUTE
```

```
   WITH ATTRIBUTE SYNTAX
      TS32-644TypeModule.PrimarySchPowerR630;
   MATCHES FOR
      EQUALITY;
   BEHAVIOUR
      primarySchPowerR630Behaviour;
REGISTERED AS {ts32-644Attribute 110630};

primarySchPowerR630Behaviour 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

```
secondarySchPowerR630 ATTRIBUTE
   WITH ATTRIBUTE SYNTAX
      TS32-644TypeModule.SecondarySchPowerR630;
   MATCHES FOR
      EQUALITY;
   BEHAVIOUR
      secondarySchPowerBehaviourR630;
REGISTERED AS {ts32-644Attribute 120630};

secondarySchPowerBehaviourR630 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

```
bchPowerR630 ATTRIBUTE
   WITH ATTRIBUTE SYNTAX
      TS32-644TypeModule.BchPowerR630;
   MATCHES FOR
      EQUALITY;
   BEHAVIOUR
      bchPowerBehaviour;
REGISTERED AS {ts32-644Attribute 130630};

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

```
lacR630 ATTRIBUTE
   WITH ATTRIBUTE SYNTAX
      TS32-644TypeModule.Lac630;
   MATCHES FOR
      EQUALITY;
   BEHAVIOUR
      lacR630Behaviour;
REGISTERED AS {ts32-644Attribute 140630};

lacR630Behaviour BEHAVIOUR
DEFINED AS
   "Location Area Code, LAC (Ref. 3 GPP TS 23.003)";
```

-- 5.3.15 rac

```
racR630 ATTRIBUTE
   WITH ATTRIBUTE SYNTAX
      TS32-644TypeModule.Rac630;
   MATCHES FOR
      EQUALITY;
   BEHAVIOUR
      racR630Behaviour;
REGISTERED AS {ts32-644Attribute 150630};

racR630Behaviour BEHAVIOUR
DEFINED AS
   "Routing Area Code, RAC (Ref. 3 GPP TS 23.003)";
```

-- 5.3.16 sac

```
sacR630 ATTRIBUTE
   WITH ATTRIBUTE SYNTAX
      TS32-644TypeModule.SacR630;
   MATCHES FOR
      EQUALITY;
   BEHAVIOUR
      sacBehaviourR630;
REGISTERED AS {ts32-644Attribute 160630};

sacBehaviourR630 BEHAVIOUR
DEFINED AS
   "Service Area Code, SAC (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
      TS32-644TypeModule.GeneralObjectPointer;
   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

```
externalUtranCellIdR630 ATTRIBUTE
   WITH ATTRIBUTE SYNTAX
      TS32-644TypeModule.GeneralObjectId;
   MATCHES FOR
      EQUALITY;
   BEHAVIOUR
      externalUtranCellIdR630Behaviour;
REGISTERED AS {ts32-644Attribute 210630};

externalUtranCellIdR630Behaviour 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};

utranCell2iubLinkBehaviour BEHAVIOUR
DEFINED AS
   "This attribute points to the iubLink instance connecting to this utranCell.";
```

-- 5.3.25 iubLinkId

```
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

```
uraListR630 ATTRIBUTE
   WITH ATTRIBUTE SYNTAX
      TS32-644TypeModule.UraListR630;
   MATCHES FOR
      EQUALITY;
   BEHAVIOUR
      uraListR630Behaviour;
REGISTERED AS {ts32-644Attribute 300630};

uraListR630Behaviour BEHAVIOUR
DEFINED AS
   "List of UTRAN Registration Area, URA (Ref. 3 GPP TS 25.331)";
```

-- 5.3.31 uarfcn

```
uarfcnR630 ATTRIBUTE
   WITH ATTRIBUTE SYNTAX
      TS32-644TypeModule.UarfcnR630;
   MATCHES FOR
```

```
      EQUALITY;
   BEHAVIOUR
      uarfcnR630Behaviour;
REGISTERED AS {ts32-644Attribute 310630};

uarfcnR630Behaviour 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 'antennaFunctionIdR0610' 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

-- Void.

-- 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

```
retGroupNameR0630 ATTRIBUTE
   WITH ATTRIBUTE SYNTAX
      TS32-644TypeModule.RetGroupNameR630;
   MATCHES FOR
      EQUALITY;
   BEHAVIOUR
      retGroupNameR0630Behaviour;
REGISTERED AS {ts32-644Attribute 470630};

retGroupNameR0630Behaviour 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
      TS32-644TypeModule.ControlledCellList;
   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.";
```

-- 5.3.52 bearing

```
bearing ATTRIBUTE
   WITH ATTRIBUTE SYNTAX
      TS32-644TypeModule.Bearing;
   MATCHES FOR
      EQUALITY;
   BEHAVIOUR
      bearingBehaviour;
REGISTERED AS {ts32-644Attribute 520630};

bearingBehaviour BEHAVIOUR
DEFINED AS
   "This attribute represents the bearing (in degrees) of an antenna. Note that bearing is the
   "true" heading (the compass heading offset by a true north variation).";
```

-- 5.3.53 baseElevation

```
baseElevation ATTRIBUTE
   WITH ATTRIBUTE SYNTAX
      TS32-644TypeModule.BaseElevation;
   MATCHES FOR
      EQUALITY;
   BEHAVIOUR
      baseElevationBehaviour;
REGISTERED AS {ts32-644Attribute 530630};

baseElevationBehaviour BEHAVIOUR
DEFINED AS
   "This attribute represents the elevation in meters above sea level at the base of the antenna
   structure. This value, when subtracted from height, provides the height of the antenna above the
   ground.";
```

-- 5.3.54 latitude

```
latitude ATTRIBUTE
   WITH ATTRIBUTE SYNTAX
      TS32-644TypeModule.Latitude;
   MATCHES FOR
      EQUALITY;
   BEHAVIOUR
```

```
      latitudeBehaviour;
REGISTERED AS {ts32-644Attribute 540630};

latitudeBehaviour BEHAVIOUR
DEFINED AS
   "This attribute represents the latitude of the antenna location based on World Geodetic System
   (1984 version) global reference frame (WGS 84). Positive values correspond to the northern
   hemisphere.";
```

-- 5.3.55 longitude

```
longitude ATTRIBUTE
   WITH ATTRIBUTE SYNTAX
      TS32-644TypeModule.Longitude;
   MATCHES FOR
      EQUALITY;
   BEHAVIOUR
      longitudeBehaviour;
REGISTERED AS {ts32-644Attribute 550630};

longitudeBehaviour BEHAVIOUR
DEFINED AS
   "This attribute represents the longitude of the antenna location based on World Geodetic System
   (1984 version) global reference frame (WGS 84). Positive values correspond to degrees east of 0
   degrees longitude.";
```

-- 5.3.56 maxAzimuthValue

```
maxAzimuthValue ATTRIBUTE
   WITH ATTRIBUTE SYNTAX
      TS32-644TypeModule.MaxAzimuthValue;
   MATCHES FOR
      EQUALITY;
   BEHAVIOUR
      maxAzimuthValueBehaviour;
REGISTERED AS {ts32-644Attribute 560630};

maxAzimuthValueBehaviour BEHAVIOUR
DEFINED AS
   "This attribute represents the maximum amount of change of azimuth the RET system can support.
   This is the change in degrees clockwise from bearing.";
```

-- 5.3.57 minAzimuthValue

```
minAzimuthValue ATTRIBUTE
   WITH ATTRIBUTE SYNTAX
      TS32-644TypeModule. MinAzimuthValue;
   MATCHES FOR
      EQUALITY;
   BEHAVIOUR
      minAzimuthValueBehaviour;
REGISTERED AS {ts32-644Attribute 570630};

minAzimuthValueBehaviour BEHAVIOUR
DEFINED AS
   "This attribute represents the minimum amount of change of azimuth the RET system can support.
   This is the change in degrees counter-clockwise from bearing.";
```

-- 5.3.58 horizBeamwidth

```
horizBeamwidth ATTRIBUTE
   WITH ATTRIBUTE SYNTAX
      TS32-644TypeModule.HorizBeamwidth;
   MATCHES FOR
      EQUALITY;
   BEHAVIOUR
      horizBeamwidthBehaviour;
REGISTERED AS {ts32-644Attribute 580630};

horizBeamwidthBehaviour BEHAVIOUR
DEFINED AS
   "This attribute represents the 3 dB power beamwidth of the antenna pattern in the horizontal
   plane.";
```

-- 5.3.59 vertBeamwidth

```
vertBeamwidth ATTRIBUTE
   WITH ATTRIBUTE SYNTAX
      TS32-644TypeModule.VertBeamwidth;
   MATCHES FOR
      EQUALITY;
   BEHAVIOUR
      vertBeamwidthBehaviour;
REGISTERED AS {ts32-644Attribute 590630};

vertBeamwidthBehaviour BEHAVIOUR
DEFINED AS
   "This attribute represents the 3 dB power beamwidth of the antenna pattern in the vertical
   plane.";
```

-- 5.3.60 patternLabel

```
patternLabel ATTRIBUTE
   WITH ATTRIBUTE SYNTAX
      TS32-644TypeModule.PatternLabel;
   MATCHES FOR
      EQUALITY;
   BEHAVIOUR
      patternLabelBehaviour;
REGISTERED AS {ts32-644Attribute 600630};

patternLabelBehaviour BEHAVIOUR
DEFINED AS
   "This attribute represents the pattern name. This is a textual, alpha-numeric string to allow
identification of the antenna pattern along with the antenna vendor information.";
```

-- 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
      rncFunctionR55-managedElementBehaviour;
   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

```
utranCellR0630-rncFunctionR55 NAME BINDING
   SUBORDINATE OBJECT CLASS
      utranCellR0630;
   NAMED BY SUPERIOR OBJECT CLASS
      rncFunctionR55;
   WITH ATTRIBUTE
      utranCellId;
   BEHAVIOUR
      utranCellR0630-rncFunctionR55Behaviour;
   CREATE
      WITH-REFERENCE-OBJECT, WITH-AUTOMATIC-INSTANCE-NAMING;
   DELETE
      ONLY-IF-NO-CONTAINED-OBJECTS;
REGISTERED AS {ts32-644NameBinding 30630};

utranCellR0630-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

```
utranRelationR0630-utranCellR0630 NAME BINDING
   SUBORDINATE OBJECT CLASS
      utranRelationR0630;
   NAMED BY SUPERIOR OBJECT CLASS
      utranCellR0630;
   WITH ATTRIBUTE
      utranRelationId;
   BEHAVIOUR
      utranRelationR0630-utranCellR0630Behaviour;
   CREATE
      WITH-REFERENCE-OBJECT, WITH-AUTOMATIC-INSTANCE-NAMING;
   DELETE
      ONLY-IF-NO-CONTAINED-OBJECTS;
REGISTERED AS {ts32-644NameBinding 40630};

utranRelationR0630-utranCellR0630Behaviour 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

```
externalUtranCellR0630-subNetworkR60 NAME BINDING
   SUBORDINATE OBJECT CLASS
      externalUtranCellR0630;
   NAMED BY SUPERIOR OBJECT CLASS
      "3GPP TS 32.624": subNetworkR60;
   WITH ATTRIBUTE
      externalUtranCellIdR630;
   BEHAVIOUR
      externalUtranCellR0630-subNetworkR60Behaviour;
   CREATE
      WITH-REFERENCE-OBJECT, WITH-AUTOMATIC-INSTANCE-NAMING;
   DELETE
      ONLY-IF-NO-CONTAINED-OBJECTS;
REGISTERED AS {ts32-644NameBinding 50630};

externalUtranCellR0630-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 iubLink - 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-utranCellR0630 NAME BINDING
   SUBORDINATE OBJECT CLASS
      "3GPP TS 32.654": gsmRelation;
   NAMED BY SUPERIOR OBJECT CLASS
      utranCellR0630;
   WITH ATTRIBUTE
      "3GPP TS 32.654": gsmRelationId;
   BEHAVIOUR
      gsmRelation-utranCellR0630Behaviour;
   CREATE
      WITH-REFERENCE-OBJECT, WITH-AUTOMATIC-INSTANCE-NAMING;
   DELETE
      ONLY-IF-NO-CONTAINED-OBJECTS;
REGISTERED AS {ts32-644NameBinding 110630};

gsmRelation-utranCellR0630Behaviour 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 antennaFunction - managedElement

```
antennaFunctionR0630-managedElement NAME BINDING
   SUBORDINATE OBJECT CLASS
      antennaFunctionR0630;
   NAMED BY SUPERIOR OBJECT CLASS
      "3GPP TS 32.624": managedElement;
   WITH ATTRIBUTE
      antennaFunctionIdR0610;
   BEHAVIOUR
      antennaFunctionR0630-managedElementBehaviour;
   CREATE
      WITH-REFERENCE-OBJECT, WITH-AUTOMATIC-INSTANCE-NAMING;
   DELETE
      ONLY-IF-NO-CONTAINED-OBJECTS;
REGISTERED AS {ts32-644NameBinding 200630};

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
      externalRncFunction-subNetworkR60Behaviour;
   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.";
```

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)}


DEFINITIONS IMPLICIT TAGS ::=
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)}
ts32-644InfoModel      OBJECT IDENTIFIER ::= {ts32-644 informationModel(0)}

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)}
ts32-644Attribute      OBJECT IDENTIFIER ::= {ts32-644InfoModel attribute(7)}
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..3599)             --unit is 0.1 degrees

BaseElevation ::= INTEGER

BchPowerR630 ::= INTEGER (-350..150)   --unit is 0.1 dB

Bearing ::= Angle

CellMode ::= ENUMERATED
   {
   fddMode                 (0),
   one-28McpsTDDMode       (1),
   three-84McpsTDDMode     (2)
   }

CellParameterId ::= INTEGER (0..127)

CId ::= INTEGER

ControlledCellList ::= GeneralObjectPointerList

ControllingRnc ::= GeneralObjectPointer

DwPchPower ::= INTEGER (-150..400)    --unit is 0.1 dB

Height ::= INTEGER

HorizBeamwidth ::= Angle

LacR630 ::= INTEGER (1..65535)

Latitude ::= INTEGER
```

```
LocalCellId ::= INTEGER

Longitude ::= INTEGER

MaxAzimuthValue ::= Angle             --unit is 0.1 degrees

MaxTiltValue ::= Angle                --unit is 0.1 degrees

MaximumTransmissionPowerR630 ::= INTEGER (0..500)       --unit is 0.1dB

MechanicalOffset ::= Angle

MinAzimuthValue ::= Angle             --unit is 0.1 degrees

MinTiltValue ::= Angle                --unit is 0.1 degrees

PatternLabel ::= GraphicString

PrimaryCcpchPower ::= INTEGER (-150..400)       --unit is 0.1dB

PrimaryCpichPowerR630 ::= INTEGER (-100..500)   --unit is 0.1dB

PrimarySchPowerR630 ::= INTEGER (-350..150)     --unit is 0.1dB

PrimaryScramblingCodeR630 ::= INTEGER (0..511)

RacR630 ::= INTEGER (0..255)

RetGroupNameR630 ::= GraphicString (80)

RetTiltValue ::= Angle                --unit is 0.1 degrees

RncId ::= INTEGER

SacR630 ::= INTEGER (0..65535)

SchPower ::= INTEGER (-350..150)               --unit is 0.1dB

SecondarySchPowerR630 ::= INTEGER (-350..150)   --unit is 0.1dB

TimeSlotDirection ::= ENUMERATED
   {
   ul      (0),
   dl      (1)
   }

TimeSlotId ::= INTEGER

TimeSlotList ::= SET OF SEQUENCE
   {
   timeSlotId             TimeSlotId,    -- range of timeSlotId:
                                         -- (0..6) when applied to 1.28Mcps TDD Mode Cell
                                         -- (0..14) when applied to 3.84Mcps TDD Mode Cell

   timeSlotDirection      TimeSlotDirection,
   timeSlotStatus         TimeSlotStatus
   }

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

UarfcnR630 ::= INTEGER (0..16383)

UarfcnDlR630 ::= INTEGER (0..16383)

UarfcnUlR630 ::= INTEGER (0..16383)

Ura ::= INTEGER (0..65535)

UraListR630 ::= SET OF URA

VertBeamwidth ::= INTEGER (0..1800)      --unit is 0.1 degrees
```

```
END -- of TS32-644TypeModule
```

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: utranCellR0630 OID : ts32-644ObjectClass 20630	Name: utranCellR55 OID : ts32-644ObjectClass 9 Name: utranCellR54 OID : ts32-644ObjectClass 7 Name: utranCell OID : ts32-644ObjectClass 2 Name: utranCellR0600 OID : ts32-644ObjectClass 20600 Name: utranCellR0610 OID : ts32-644ObjectClass 20610
utranRelation	Name: utranRelationR0630 OID : ts32-644ObjectClass 30630	Name: utranRelation OID : ts32-644ObjectClass 3 Name: utranRelationR0600 OID : ts32-644ObjectClass 30600
externalUtranCell	Name: externalUtranCellR0630 OID : ts32-644ObjectClass 40630	Name: externalUtranCellR0506 OID : ts32-644ObjectClass 40506 Name: externalUtranCell OID : ts32-644ObjectClass 4 Name: externalUtranCellR0600 OID : ts32-644ObjectClass 40600 Name: externalUtranCellR0620 OID : ts32-644ObjectClass 40620
iubLink	Name: iubLinkR0600 OID : ts32-644ObjectClass 50600	Name: iubLink OID : ts32-644ObjectClass
nodeBFunction	Name: nodeBFunction OID : ts32-644ObjectClass 6	--
antennaFunction	Name: antennaFunctionR0630 OID : ts32-644ObjectClass 70630	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
utranCellHandoverPackage	Name: utranCellHandoverPackageR0630 OID : ts32-644Package 20630	Name: utranCellHandoverPackageR55 OID : ts32-644Package 15 Name: utranCellHandoverPackageR54 OID : ts32-644Package 13 Name: utranCellHandoverPackage OID ts32-644Package 2 Name: utranCellHandoverPackageR0600 OID : ts32-644Package 20600
utranRelationBasicPackage	Name: utranRelationBasicPackageR0600 OID : ts32-644Package 30600	Name: utranRelationBasicPackage OID : ts32-644Package 3
utranRelationAssociationPackage	Name: utranRelationAssociationPackage OID ts32-644Package 4	--

externalUtranCellPackage	Name: externalUtranCellPackageR0630 OID : ts32-644Package 50630	Name: externalUtranCellPackageR0506 OID : ts32-644Package 50506 Name: externalUtranCellPackage OID : ts32-644Package 5 Name: externalUtranCellPackageR0600 OID : ts32-644Package 50600
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: utranFDDCellHandoverPackageR630 OID : ts32-644Package 130630	Name: utranFDDCellHandoverPackage OID : ts32-644Package 130600
utran1-28McpsTDDCellHandoverPackage	Name: utran1-28McpsTDDCellHandoverPackageR630 OID : ts32-644Package 140630	Name: utran1-28McpsTDDCellHandoverPackage OID : ts32-644Package 140600
utran3-84McpsTDDCellHandoverPackage	Name: utran3-84McpsTDDCellHandoverPackageR630 OID : ts32-644Package 150630	Name: utran3-84McpsTDDCellHandoverPackage OID : ts32-644Package 150600
utranRelationFDDHandoverPackage	Name: utranRelationFDDHandoverPackageR630 OID : ts32-644Package 160630	Name: utranRelationFDDHandoverPackage OID : ts32-644Package 160600
utranRelationTDDHandoverPackage	Name: utranRelationTDDHandoverPackageR630 OID : ts32-644Package 170630	Name: utranRelationTDDHandoverPackage OID : ts32-644Package 170600
externalUtranFDDCellHandoverPackage	Name: externalUtranFDDCellHandoverPackageR630 OID : ts32-644Package 180630	Name: externalUtranFDDCellHandoverPackage OID : ts32-644Package 180600
externalUtranTDDCellHandoverPackage	Name: externalUtranTDDCellHandoverPackageR630 OID : ts32-644Package 190630	Name: externalUtranTDDCellHandoverPackage OID : ts32-644Package 190600
iubLink2aTMChannelTerminationPointAssociationPackage	Name: iubLink2aTMChannelTerminationPointAssociationPackage OID : ts32-644Package 200600	--
antennaFunctionBasicPackage	Name: antennaFunctionBasicPackageR0610 OID : ts32-644Package 220610	--
antennaFunctionOptionalPackage	Name: antennaFunctionOptionalPackageR0630 OID : ts32-644Package 230630	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	--
rncId	Name: rncIdR55 OID : ts32-644Attribute 31	Name: rncId OID : ts32-644Attribute 3
cId	Name: cIdR55 OID : ts32-644Attribute 32	Name: cId OID : ts32-644Attribute 4
localCellId	Name: localCellIdR55 OID : ts32-644Attribute 33	Name: localCellId OID : ts32-644Attribute 5

uarfcnUl	Name: uarfcnUlR630 OID : ts32-644Attribute 60630	Name: uarfcnUl OID : ts32-644Attribute 6
uarfcnDl	Name: uarfcnDlR630 OID : ts32-644Attribute 70630	Name: uarfcnDl OID : ts32-644Attribute 7
primaryScramblingCode	Name: primaryScramblingCodeR630 OID : ts32-644Attribute 80630	Name: primaryScramblingCode OID : ts32-644Attribute 8
primaryCpichPower	Name: primaryCpichPowerR630 OID : ts32-644Attribute 90630	Name: primaryCpichPower OID : ts32-644Attribute 9
maximumTransmissionPower	Name: maximumTransmissionPower OID : ts32-644Attribute 10	--
primarySchPower	Name: primarySchPowerR630 OID : ts32-644Attribute 110630	Name: primarySchPower OID : ts32-644Attribute 11
secondarySchPower	Name: secondarySchPowerR630 OID : ts32-644Attribute 120630	Name: secondarySchPower OID : ts32-644Attribute 12
bchPower	Name: bchPowerR630 OID : ts32-644Attribute 130630	Name: bchPower OID : ts32-644Attribute 13
Lac	Name: lacR630 OID : ts32-644Attribute 140630	Name: lac OID : ts32-644Attribute 14
Rac	Name: racR630 OID : ts32-644Attribute 150630	Name: rac OID : ts32-644Attribute 15
Sac	Name: sacR630 OID : ts32-644Attribute 160630	Name: sac OID : ts32-644Attribute 16
Ura	--	Name: ura OID : ts32-644Attribute 17
utranRelationId	Name: utranRelationId OID : ts32-644Attribute 18	--
relationType	--	Name: relationType OID : ts32-644Attribute 19
adjacentCell	Name: adjacentCell OID : ts32-644Attribute 20	--
externalUtranCellId	Name: externalUtranCellIdR630 OID : ts32-644Attribute 210630	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 OID : ts32-644Attribute 25	--
iubLink2nodeBFunction	Name: iubLink2nodeBFunction OID : ts32-644Attribute 26	--
iubLink2utranCell	Name: iubLink2utranCell OID : ts32-644Attribute 27	--
nodeBFunctionId	Name: nodeBFunctionId OID : ts32-644Attribute 28	--
nodeB2iubLink	Name: nodeB2iubLink OID : ts32-644Attribute 29	--
uraList	Name: uraListR630 OID : ts32-644Attribute 300630	Name: uraList OID : ts32-644Attribute 30
Uarfcn	Name: uarfcnR630 OID : ts32-644Attribute 310630	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 OID : ts32-644Attribute 360600	--
cellMode	Name: cellMode OID : ts32-644Attribute 370600	--
iubLink2aTMChannelTerminationPoint	Name: 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	--
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	--
controllingRnc	Name: controllingRnc OID : ts32-644Attribute 490620	--
controlledCellList	Name: controlledCellList OID : ts32-644Attribute 500620	--
externalRncFunctionId	Name: externalRncFunctionId OID : ts32-644Attribute 510620	--
bearing	Name: bearing OID : ts32-644Attribute 520630	--
baseElevation	Name: baseElevation OID : ts32-644Attribute 530630	--
latitude	Name: latitude OID : ts32-644Attribute 540630	--
longitude	Name: longitude OID : ts32-644Attribute 550630	--
maxAzimuthValue	Name: maxAzimuthValue OID : ts32-644Attribute 560630	--
minAzimuthValue	Name: minAzimuthValue OID : ts32-644Attribute 570630	--
horizBeamwidth	Name: horizBeamwidth OID : ts32-644Attribute 580630	--
vertBeamwidth	Name: vertBeamwidth OID : ts32-644Attribute 590630	--
patternLabel	Name: patternLabel OID : ts32-644Attribute 600630	--
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: utranCellR0630-rncFunctionR55 OID : ts32-644NameBinding 30630	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 Name: utranCellR0610-rncFunctionR55 OID : ts32-644NameBinding 30610

utranRelation-utranCell	Name: utranRelationR0630-utranCellR0630 OID : ts32-644NameBinding 40630	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 Name: utranRelationR0600-utranCellR0610 OID : ts32-644NameBinding 40610
externalUtranCell - subNetwork	Name: externalUtranCellR0630-subNetworkR60 OID : ts32-644NameBinding 50630	Name: externalUtranCellR0506-subNetwork OID : ts32-644NameBinding 50506 Name: externalUtranCell-subNetwork OID : ts32-644NameBinding 5 Name: externalUtranCellR0600-subNetwork OID : ts32-644NameBinding 50600 Name: externalUtranCellR0600-subNetworkR60 OID : ts32-644NameBinding 50620
vsDataContainer-rncFunction	--	Name: vsDataContainer-rncFunction OID : ts32-644NameBinding 6
vsDataContainer-nodeBFunction	--	Name: vsDataContainer-nodeBFunction OID : ts32-644NameBinding 7
vsDataContainer-utranCell	--	Name: vsDataContainer-utranCell OID : : ts32-644NameBinding 8
vsDataContainer-utranRelation	--	Name: vsDataContainer-utranRelation OID : ts32-644NameBinding 9
iubLink-rncFunction	Name: iubLinkR0600-rncFunctionR55 OID : ts32-644NameBinding 100600	Name: iubLink-rncFunctionR55 OID : ts32-644NameBinding 16 Name: iubLink-rncFunction OID : ts32-644NameBinding 10
gsmRelation-utranCell	Name: gsmRelation-utranCellR0630 OID : ts32-644NameBinding 110630	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 Name: gsmRelation-utranCellR0610 OID : ts32-644NameBinding 110610
antennaFunction-managedElement	Name: antennaFunctionR0630-managedElement OID : ts32-644NameBinding 200630	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**	**Cat**	**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	F	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	F	4.1.1	5.0.0
Jun 2003	SA_20	SP-030283	0003	--	Removal of relationType	A	5.0.0	5.1.0
Sep 2003	SA_21	SP-030420	0004	--	Correction of wrong attribute name	F	5.1.0	5.2.0
Dec 2003	SA_22	SP-030646	0009	--	Correction of the number of possible URAs from 1 to 8	A	5.2.0	5.3.0
Dec 2003	SA_22	SP-030642	0010	--	Add notifications to functional objects - Align with 32.642 (IS)	F	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	F	5.3.0	5.4.0
Jun 2004	SA_24	SP-040255	0012	--	Correction of type of the attributes cId, localCellId and rncId	F	5.4.0	5.5.0
Jun 2004	SA_24	SP-040254	0013	--	The specification does not support all UMTS frequency bands	F	5.4.0	5.5.0
Sep 2004	SA_25	SP-040591	0014	--	Correction of the types of the attributes cId, localCellId and rncId	F	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	B	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	F	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	F	6.1.0	6.2.0
Sep 2006	SA_33	SP-060537	0018	--	Add missing RET Antenna Functionality to the CMIP Solution Set - Align with 32.642 UTRAN network resources IRP Network Resource Model	F	6.2.0	6.3.0