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Technical Specification

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Telecommunication management;

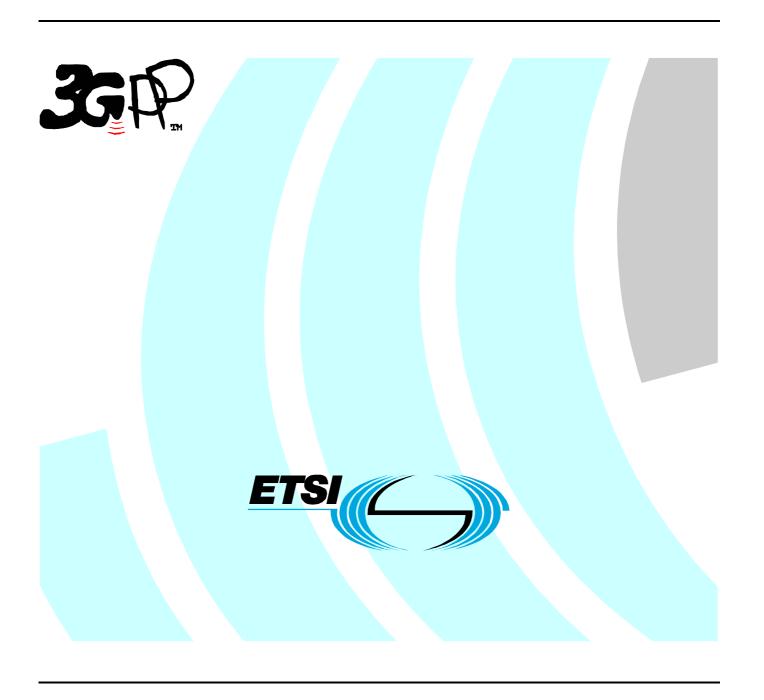
Configuration Management (CM);

UTRAN network resources Integration Reference Point (IRP):

Common Management Information Protocol (CMIP)

solution set

(3GPP TS 32.644 version 5.3.0 Release 5)



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Introduction

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 V5.3.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.
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- 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*.
- 3GPP TS 32.101: "Telecommunication management; Principles and high level requirements". [1] [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)". 3GPP TS 32.642: "Telecommunication management; Configuration Management (CM); UTRAN [4] 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". ITU-T Recommendation X.730 (01/92): "Information Technology - Open Systems Interconnection [7]
- 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 Management Information Base MIB Management Information Model MIM Management Information Tree (or Naming Tree) MIT MOC Managed Object Class

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

Table 1 maps the information object classes defined in the UTRAN Network Resource Model onto the equivalent MOCs of the CMIP Solution Set.

Table 1: Mapping of IOCs

IS IOC	CMIP SS MOC
RncFunction	rncFunction
NodeBFunction	nodeBFunction
UtranCell	utranCell
lubLink	iubLink
UtranRelation	utranRelation
ExternalUtranCell	externalUtranCell

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*

Table 2: Attribute mapping of the IOC RncFunction

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

4.2.2.2 Attribute Mapping of the IOC *NodeBFunction*

Table 3: Attribute mapping of the IOC NodeBFunction

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

4.2.2.3 Attribute Mapping of the IOC *UtranCell*

Table 4: Attribute mapping of the IOC UtranCell

IS Attribute	CMIP SS Attribute	Qualifier	
utranCellId	utranCellId	М	
userLabel	userLabel (ITU-T Rec. M.3100 [9])	M	
cld	cld	M	
localCellId	localCellId	M	
uarfcnDl	uarfcnDl	M	
uarfcnUl	uarfcnUl	M	
primaryScramblingCode	primaryScramblingCode	M	
primaryCpichPower	primaryCpichPower	M	
maximumTransmissionPower	maximumTransmissionPower	M	
primarySchPower	primarySchPower	М	
secondarySchPower	secondarySchPower	М	
bchPower	bchPower	М	
lac	lac	M	
rac	rac	М	
sac	sac	M	
uraList	uraList	M	
utranCell-lubLink	utranCell2iubLink	M	
operationalState	operationalState		

4.2.2.4 Attribute Mapping of the IOC *lubLink*

Table 5: Attribute mapping of the IOC *lubLink*

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

4.2.2.5 Attribute Mapping of the IOC *UtranRelation*

Table 6: Attribute mapping of the IOC UtranRelation

IS Attribute	CMIP SS Attribute	Qualifier
utranRelationId	utranRelationId	M
adjacentCell	adjacentCell	M
uarfcnUl	uarfcnUl	0
uarfcnDI	uarfcnDl	0
primaryScramblingCode	primaryScramblingCode	0
primaryCpichPower	primaryCpichPower	0
lac	lac	0

4.2.2.6 Attribute Mapping of the IOC *ExternalUtranCell*

Table 7: Attribute mapping of the IOC ExternalUtranCell

IS Attribute	CMIP SS Attribute	Qualifier
externalUtranCellId	externalUtranCellId	M
userLabel	userLabel	M
cld	cld	M
mcc	mcc	M
mnc	mnc	M
rncld	rncld	M
uarfcnUl	uarfcnUl	M
uarfcnDl	uarfcnDl	M
primaryScramblingCode	primaryScramblingCode	M
primaryCpichPower	primaryCpichPower	M
lac	lac	M
rac	rac	M

5 GDMO Definitions

5.1 Managed Object Classes

5.1.1 rncFunction

```
rncFunction MANAGED OBJECT CLASS
 DERIVED FROM
      "3GPP TS 32.624 Release 5": managedFunction;
   CHARACTERIZED BY
     rncFunctionBasicPackage,
      rncFunctionHandoverPackage,
      "3GPP TS 32.111-4 Release 5": 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 {ts32-6440bjectClass 1};
```

5.1.2 utranCell

```
utranCell MANAGED OBJECT CLASS
   DERIVED FROM
      "3GPP TS 32.624 Release 5": managedFunction;
   CHARACTERIZED BY
      utranCellBasicPackage,
      utranCellHandoverPackage,
      utranCellAssociationPackage,
      "3GPP TS 32.111-4 Release 5": 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.", "3GPP TS 32.674 Release 5": operationalStateAttributePackage
         PRESENT IF
            "instances of this MOC support the operationalState attribute.";
REGISTERED AS {ts32-6440bjectClass 2};
```

5.1.3 utranRelation

```
utranRelation MANAGED OBJECT CLASS
   DERIVED FROM
      "Recommendation X.721: 1992":top;
   CHARACTERIZED BY
      utranRelationBasicPackage,
      utranRelationAssociationPackage;
   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 {ts32-6440bjectClass 3};
```

5.1.4 externalUtranCell

```
externalUtranCell MANAGED OBJECT CLASS

DERIVED FROM

"3GPP TS 32.624 Release 5": managedFunction;

CHARACTERIZED BY

externalUtranCellPackage;

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 {ts32-6440bjectClass 4};
```

5.1.5 iubLink

```
iubLink MANAGED OBJECT CLASS
   DERIVED FROM
      "3GPP TS 32.624 Release 5": managedFunction;
   CHARACTERIZED BY
      iubLinkBasicPackage,
      iubLinkAssociationPackage,
      "3GPP TS 32.111-4 Release 5": 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 {ts32-6440bjectClass 5};
```

5.1.6 nodeBFunction

```
nodeBFunction MANAGED OBJECT CLASS
   DERIVED FROM
       '3GPP TS 32.624 Release 5": managedFunction;
   CHARACTERIZED BY
      nodeBFunctionBasicPackage,
      nodeBFunctionAssociationPackage,
      "3GPP TS 32.111-4 Release 5": 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 {ts32-6440bjectClass 6};
```

5.2 Packages

5.2.1 rncFunctionHandoverPackage

rncFunctionHandoverPackageBehaviour BEHAVIOUR

DEFINED AS

"This package contains all new attributes defined for UTRAN handover management. These attributes are introduced in R4.";

utranCellHandoverPackage

```
utranCellHandoverPackage PACKAGE
   BEHAVIOUR
      utranCellHandoverPackageBehaviour;
   ATTRIBUTES
     cId
                                    GET-REPLACE,
      localCellId
                                     GET-REPLACE,
     uarfcnIll
                                    GET-REPLACE,
      uarfcnDl
                                    GET-REPLACE,
      primaryScramblingCode
                                     GET-REPLACE,
     primaryCpichPower
                                    GET-REPLACE,
      maximumTransmissionPower
                                    GET-REPLACE.
      primarySchPower
                                    GET-REPLACE
      secondarySchPower
                                     GET-REPLACE,
      bchPower
                                     GET-REPLACE,
                                     GET-REPLACE,
      lac
      rac
                                     GET-REPLACE,
      sac
                                     GET-REPLACE
      uraList
                                     GET-REPLACE;
REGISTERED AS {ts32-644Package 2};
```

utranCellHandoverPackageBehaviour BEHAVIOUR

DEFINED AS

"This package contains all new attributes defined for UTRAN handover management. These attributes are introduced in R4.";

5.2.3 utranRelationBasicPackage

utranRelationBasicPackage PACKAGE

BEHAVIOUR

utranRelationBasicPackageBehaviour;

ATTRIBUTES

utranRelationId uarfcnUl GET, uarfcnDl GET. primaryScramblingCode GET. primaryCpichPower GET **REGISTERED AS** {ts32-644Package 3};

utranRelationBasicPackageBehaviour BEHAVIOUR

DEFINED AS

"The 'UtranRelation' managed object contains radio network related parameters for the relation to the 'UtranCell' or 'ExternalUtranCell' managed object. 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

```
externalUtranCellPackage PACKAGE
```

BEHAVIOUR

externalUtranCellPackageBehaviour;

DEFINED AS

```
ATTRIBUTES
      externalUtranCellId
                                GET,
     cId
                                GET-REPLACE,
     mcc
                                GET-REPLACE
     mnc
                                GET-REPLACE
     rncId
                                GET-REPLACE,
     uarfcnUl
                                GET-REPLACE.
     uarfcnDl
                                GET-REPLACE.
     primaryScramblingCode
                                GET-REPLACE,
     primaryCpichPower
                                GET-REPLACE,
                                GET-REPLACE,
     lac
                                GET-REPLACE;
     rac
REGISTERED AS {ts32-644Package 5};
externalUtranCellPackageBehaviour BEHAVIOUR
DEFINED AS
   "This Managed Object Class represents a radio cell controlled by another IRPAgent. It a
   necessary attribute for inter-system handover. This MOC is a subreplication of a MOC
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.";
           utranCellBasicPackage
utranCellBasicPackage PACKAGE
  BEHAVIOUR
     utranCellBasicPackageBehaviour;
  ATTRIBUTES
     utranCellId
                   GET;
REGISTERED AS {ts32-644Package 7};
\verb|utranCellBasicPackageBehaviour| \textbf{BEHAVIOUR}|
   "This managed object class represents the radio cell controlled by a RNC.";
5.2.8
           utranCellAssociationPackage
utranCellAssociationPackage PACKAGE
   BEHAVIOUR
     utranCellAssociationPackageBehaviour;
  ATTRIBUTES
     utranCell2iubLink
REGISTERED AS {ts32-644Package 8};
utranCellAssociationPackageBehaviour BEHAVIOUR
   "This package contains the pointer attributes that implement associations related to utranCell.";
5.2.9
           iubLinkBasicPackage
iubLinkBasicPackage PACKAGE
  BEHAVTOUR
      iubLinkBasicPackageBehaviour;
  ATTRIBUTES
     iubLinkId
REGISTERED AS {ts32-644Package 9};
iubLinkBasicPackageBehaviour BEHAVIOUR
```

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

5.2.10 iubLinkAssociation

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.";
```

5.3 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
rncId ATTRIBUTE
  WITH ATTRIBUTE SYNTAX
     TS32-644TypeModule.GeneralObjectId;
  MATCHES FOR
     EQUALITY;
  BEHAVIOUR
     rncIdBehaviour;
REGISTERED AS {ts32-644Attribute 3};
rncIdBehaviour BEHAVIOUR
DEFINED AS
   "Unique RNC ID (Ref. 3 GPP TS 23.003).";
5.3.4
           cld
cId ATTRIBUTE
  WITH ATTRIBUTE SYNTAX
     TS32-644TypeModule.GeneralObjectId;
  MATCHES FOR
     EQUALITY;
   BEHAVIOUR
     cIdBehaviour;
REGISTERED AS {ts32-644Attribute 4};
cIdBehaviour BEHAVIOUR
DEFINED AS
   "cId is the identifier of a cell in one RNC (Ref. 3 GPP TS 25.401).";
5.3.5
           localCellId
localCellId ATTRIBUTE
  WITH ATTRIBUTE SYNTAX
      TS32-644TypeModule.GeneralObjectId;
  MATCHES FOR
     EQUALITY;
   BEHAVIOUR
     localCellIdBehaviour;
REGISTERED AS {ts32-644Attribute 5};
localCellIdBehaviour 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, UARFCN (Ref. 3 GPP TS 25.433).";
```

5.3.7 uarfcnDl

uarfcnDl ATTRIBUTE

```
WITH ATTRIBUTE SYNTAX
      TS32-644TypeModule.UarfcnDl;
   MATCHES FOR
     EOUALITY;
   BEHAVIOUR
     uarfcnDlBehaviour;
REGISTERED AS {ts32-644Attribute 7};
uarfcnDlBehaviour BEHAVIOUR
DEFINED AS
   "The DL UTRA absolute Radio Frequency Channel number, UARFCN (Ref. 3 GPP TS 25.433).";
           primaryScramblingCode
primaryScramblingCode ATTRIBUTE
  WITH ATTRIBUTE SYNTAX
     TS32-644TypeModule.PrimaryScramblingCode;
  MATCHES FOR
     EOUALITY;
   BEHAVIOUR
     primaryScramblingCodeBehaviour;
REGISTERED AS {ts32-644Attribute 8};
primaryScramblingCodeBehaviour BEHAVIOUR
DEFINED AS
   "The primary DL scrambling code used by the cell (Ref. 3 GPP TS 25.433).";
           primaryCpichPower
5.3.9
primaryCpichPower ATTRIBUTE
  WITH ATTRIBUTE SYNTAX
     TS32-644TypeModule.PrimaryCpichPower;
  MATCHES FOR
     EOUALITY;
  BEHAVIOUR
     primaryCpichPowerBehaviour;
REGISTERED AS {ts32-644Attribute 9};
primaryCpichPowerBehaviour BEHAVIOUR
DEFINED AS
   "The power of the primary CPICH channel in the 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
   "The maximum transmission power of a cell, DL Power (Ref. 3 GPP TS 25.433).";
           primarySchPower
5.3.11
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 cell, DL Power (Ref. 3 GPP TS 25.433).";
```

5.3.12 secondarySchPower

REGISTERED AS {ts32-644Attribute 16};

```
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 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 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;
```

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

5.3.17 uraList

```
uraList ATTRIBUTE
WITH ATTRIBUTE SYNTAX
        TS32-644TypeModule.UraList;
MATCHES FOR
        EQUALITY;
BEHAVIOUR
        uraListBehaviour;
REGISTERED AS {ts32-644Attribute 17};

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

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

```
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};

utranCell2iubLinkBehaviour BEHAVIOUR

DEFINED AS

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

5.3.25 iubLinkld

```
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};
```

 $\verb|iubLink2| node \verb|BFunctionBehaviour| \\ \verb|BEHAVIOUR| \\$

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.";
```

5.4 Name Binding

5.4.1 rncFunction - managedElement

```
rncFunction-managedElement NAME BINDING
   SUBORDINATE OBJECT CLASS
     rncFunction;
  NAMED BY SUPERIOR OBJECT CLASS
      "3GPP TS 32.624 Release 5": managedElement;
   WITH ATTRIBUTE
      rncFunctionId;
   BEHAVIOUR
     rncFunction-managedElementBehaviour;
   CREATE
      WITH-REFERENCE-OBJECT, WITH-AUTOMATIC-INSTANCE-NAMING;
   DELETE
      ONLY-IF-NO-CONTAINED-OBJECTS;
REGISTERED AS {ts32-644NameBinding 1};
\verb"rncFunction-managedElementBehaviour" \textbf{BEHAVIOUR}
DEFINED AS
```

"The name binding represents a relationship in which a managedElement contains and controls a rncFunction. 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 Release 5": 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
   "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

```
utranCell-rncFunction NAME BINDING
   SUBORDINATE OBJECT CLASS
     utranCell;
   NAMED BY SUPERIOR OBJECT CLASS
      rncFunction;
   WITH ATTRIBUTE
     utranCellId;
   BEHAVIOUR
     utranCell-rncFunctionBehaviour;
   CREATE
      WITH-REFERENCE-OBJECT, WITH-AUTOMATIC-INSTANCE-NAMING;
      ONLY-IF-NO-CONTAINED-OBJECTS;
REGISTERED AS {ts32-644NameBinding 3};
utranCell-rncFunctionBehaviour BEHAVIOUR
DEFINED AS
   "The name binding represents a relationship in which a rncFunction 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

```
utranRelation-utranCell NAME BINDING
   SUBORDINATE OBJECT CLASS
     utranRelation;
   NAMED BY SUPERIOR OBJECT CLASS
     utranCell;
   WITH ATTRIBUTE
     utranRelationId;
   BEHAVIOUR
      utranRelation-utranCellBehaviour;
   CREATE
      WITH-REFERENCE-OBJECT, WITH-AUTOMATIC-INSTANCE-NAMING;
   DELETE
     ONLY-IF-NO-CONTAINED-OBJECTS;
REGISTERED AS {ts32-644NameBinding 4};
utranRelation-utranCellBehaviour 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

```
externalUtranCell-subNetwork NAME BINDING
   SUBORDINATE OBJECT CLASS
      externalUtranCell;
  NAMED BY SUPERIOR OBJECT CLASS
      "3GPP TS 32.624 Release 5": subNetwork;
   WITH ATTRIBUTE
     externalUtranCellId;
   BEHAVIOUR
      externalUtranCell-subNetworkBehaviour;
   CREATE
     WITH-REFERENCE-OBJECT, WITH-AUTOMATIC-INSTANCE-NAMING;
   DELETE
      ONLY-IF-NO-CONTAINED-OBJECTS;
REGISTERED AS {ts32-644NameBinding 5};
externalUtranCell-subNetworkBehaviour BEHAVIOUR
DEFINED AS
   "The name binding represents a relationship in which a subNetwork contains
   and controls an externalUtranCell. When automatic instance naming is used, the choice
  of name bindings is left as a local matter.";
```

- 5.4.6 void
- 5.4.7 void
- 5.4.8 void
- 5.4.9 void

5.4.10 iubLink - rncFunction

```
iubLink-rncFunction NAME BINDING
   SUBORDINATE OBJECT CLASS
      iubLink;
   NAMED BY SUPERIOR OBJECT CLASS
     rncFunction;
   WITH ATTRIBUTE
      iubLinkId;
   BEHAVIOUR
     iubLink-rncFunctionBehaviour;
   CREATE
      WITH-REFERENCE-OBJECT, WITH-AUTOMATIC-INSTANCE-NAMING;
      ONLY-IF-NO-CONTAINED-OBJECTS;
REGISTERED AS {ts32-644NameBinding 10};
iubLink-rncFunctionBehaviour BEHAVIOUR
   "The name binding represents a relationship in which a rncFunction contains
    and controls a iubLink. When automatic instance naming is used, the choice
    of name bindings left as a local matter.";
```

5.4.10 gsmRelation - utranCell

```
gsmRelation-utranCell NAME BINDING
SUBORDINATE OBJECT CLASS
    "3GPP TS 32.654 Release 5": gsmRelation;
NAMED BY SUPERIOR OBJECT CLASS
    utranCell;
```

```
WITH ATTRIBUTE
    "3GPP TS 32.654 Release 5": gsmRelationId;
BEHAVIOUR
    gsmRelation-utranCellBehaviour;
CREATE
    WITH-REFERENCE-OBJECT, WITH-AUTOMATIC-INSTANCE-NAMING;
DELETE
    ONLY-IF-NO-CONTAINED-OBJECTS;
REGISTERED AS {ts32-644NameBinding 11};
gsmRelation-utranCellBehaviour 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 left as a local matter.";
```

TS32-644TypeModule {ccitt(0) identified-organization(4) etsi(0) mobileDomain(0) umts-Operation-

6 ASN.1 Definitions

```
Maintenance(3) ts32-644(644) informationModel(0) asnlModule(2) version1(1)}
DEFINITIONS IMPLICIT TAGS ::=
BEGIN
--EXPORTS everything
IMPORTS
{\tt GeneralObjectId}, \ {\tt GeneralObjectPointer}, \ {\tt GeneralObjectPointerList}
   FROM TS32-624TypeModule {ccitt(0) identified-organization(4) etsi(0) mobileDomain(0)
   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)
   asn1TvpeModule(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)} ts32-644Attribute 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
UarfcnUl ::= INTEGER
UarfcnDl ::= INTEGER
PrimaryScramblingCode ::= INTEGER
PrimaryCpichPower ::= INTEGER
MaximumTransmissionPower ::= INTEGER
PrimarySchPower ::= INTEGER
SecondarySchPower ::= INTEGER
BchPower ::= INTEGER
Lac ::= INTEGER
Rac ::= INTEGER
Sac ::= INTEGER
UraList ::= SET OF INTEGER
END -- of TS32-644TypeModule
```

Annex A (informative): Change history

Change history							
Date	TSG #	TSG Doc.	CR	Rev	Subject/Comment	Old	New
Jun 2001	S_12	SP-010283			Approved at TSG SA #12 and placed under Change Control	2.0.0	4.0.0
Sep 2001	S_13	SP-010478	001		Correction due to TS renumbering	4.0.0	4.1.0
Sep 2002	- 1				Cosmetics/Styles	4.1.0	4.1.1
Dec 2002	S_18	SP-020749	007		Alignment of the CMIP SS with the Rel-5 version of the IS in 32.642	4.1.1	5.0.0
Jun 2003	S_20	SP-030283	003		Removal of relationType	5.0.0	5.1.0
Sep 2003	S_21	SP-030420	004		Correction of wrong attribute name	5.1.0	5.2.0
Dec 2003	S_22	SP-030646	009		Correction of the number of possible URAs from 1 to 8	5.2.0	5.3.0
Dec 2003	S_22	SP-030642	010		Add notifications to functional objects - Align with 32.642 (IS)	5.2.0	5.3.0

History

	Document history					
V5.0.0	December 2002	Publication				
V5.1.0	June 2003	Publication				
V5.2.0	September 2003	Publication				
V5.3.0	December 2003	Publication				