ETSI TS 132 644 V4.3.0 (2003-12)

Technical Specification

Universal Mobile Telecommunications System (UMTS);

Telecommunication management;

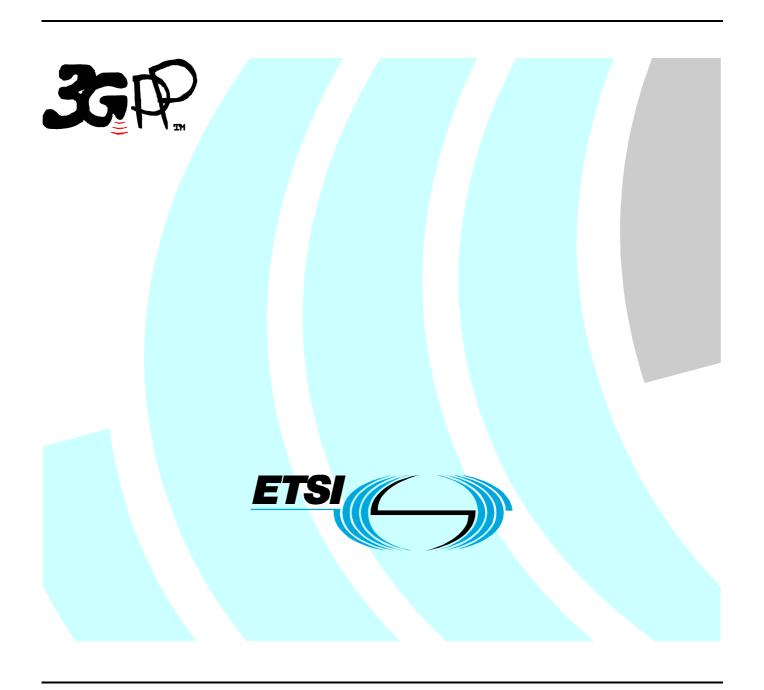
Configuration Management (CM);

UTRAN network resources Integration Reference Point (IRP):

Common Management Information Protocol (CMIP)

solution set

(3GPP TS 32.644 version 4.3.0 Release 4)



Reference RTS/TSGS-0532644v430 Keywords UMTS

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Contents

| Intelle | ectual Property Rights | 2 |
|----------------|---|----|
| Forew | /ord | 2 |
| Forew | vord | 5 |
| Introd | luction | 5 |
| 1 | Scope | |
| 2 | References | |
| | | |
| 3 3.1 | Definitions, symbols and abbreviations | |
| 3.2 | Abbreviations | |
| 4 | Basic aspects | |
| + 4.1 | Explanation. | |
| 4.2 | Mapping | |
| 4.2.1 | Mapping of MOCs | |
| 4.2.2 | Mapping of Attributes | |
| | • | |
| 5 | GDMO Definitions | |
| 5.1 | Managed Object Classes | |
| 5.1.1 | rncFunction | |
| 5.1.2 | utranCell | |
| 5.1.3 | utranRelation | |
| 5.1.4 | externalUtranCell | |
| 5.1.5 | iubLink | |
| 5.1.6 | nodeBFunction | |
| 5.2 | Packages | |
| 5.2.1 | rncFunctionHandoverPackage | |
| 5.2.2 | utranCellHandoverPackage | |
| 5.2.3 5.2.4 | utranRelationBasicPackage | |
| 5.2.4 | utranRelationAssociationPackageexternalUtranCellPackage | |
| 5.2.5 5.2.6 | rncFunctionBasicPackage | |
| 5.2.6 | utranCellBasicPackage | |
| 5.2.7 | utranCellAssociationPackage | |
| 5.2.9 | iubLinkBasicPackage | |
| 5.2.10 | iubLinkAssociation | |
| 5.2.10 | nodeBFunctionBasicPackage | |
| 5.2.12 | nodeBFunctionAssociationPackage | |
| 5.3 | Attributes | |
| 5.3.1 | mcc | |
| 5.3.2 | mnc | |
| 5.3.3 | rncId | |
| 5.3.4 | cId | |
| 5.3.5 | localCellId | |
| 5.3.6 | uarfcnUl | |
| 5.3.7 | uarfcnDl | |
| 5.3.7a | primaryScramblingCode | |
| 5.3.8 | primaryCpichPower | |
| 5.3.9 | maximumTransmissionPower | |
| 5.3.10 | primarySchPower | 18 |
| 5.3.11 | secondarySchPower | 18 |
| 5.3.12 | bchPower | 19 |
| 5.3.13 | lac | 19 |
| 5.3.14 | rac | |
| 5.3.15 | sac | 20 |

| Histor | ry | 32 |
|------------------|-----------------------------------|----|
| Annex | x A (informative): Change history | 31 |
| 6 | ASN.1 Definitions | 29 |
| 5.4.10 | iubLink - rncFunction | 27 |
| 5.4.9 | vsDataContainer - utranRelation | |
| 5.4.8 | vsDataContainer - utranCell | |
| 5.4.7 | vsDataContainer - nodeBFunction | |
| 5.4.6 | vsDataContainer - rncFunction | |
| 5.4.5 | externalUtranCell - subNetwork | |
| 5.4.4 | utranRelation - utranCell | |
| 5.4.3 | utranCell - rncFunction | |
| 5.4.2 | nodeBFunction - managedElement | |
| 5.4.1 | rncFunction - managedElement | |
| 5.4 | Name Binding | |
| 5.3.28 | | |
| 5.3.27 | | |
| 5.3.26 | | |
| 5.3.25 | | |
| 5.3.24 | | |
| 5.3.23 | | |
| 5.3.21 | | |
| 5.3.20 | rncFunctionId | |
| 5.3.20 | · · | |
| 5.3.19 | · - | |
| 5.3.17 5.3.18 | utranRelationIdrelationType | |
| 5.3.10 | | |
| 5.3.16 | uraList | 20 |

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Introduction

Due to the growing number of specifications to model new services and Resource Models for Configuration Management (CM), as well as the expected growth in size of each of them from 3GPP Release 4 onwards, a new structure of the specifications is already needed in Release 4. This structure is needed for several reasons, but mainly to enable more independent development and release for each part, as well as a simpler document identification and version handling. Another benefit would be that it becomes easier for bodies outside 3GPP, such as the ITU-T, to refer to telecom management specifications from 3GPP. The new structure of the specifications does not lose any information or functionality supported by the Release 1999. The restructuring also includes defining new IRPs for the Network Resource Model (NRM) parts of R99 Basic CM IRP (Generic, Core Network and UTRAN NRM). These IRPs are named "Network Resources IRP".

Further, the Notification IRP (in Release 1999: 32.106-1 to -4) and the Name convention for Managed Objects (in Release 1999: 32.106-8) have been moved to a separate number series used for specifications common between several management areas (e.g. CM, FM, PM).

Finally, in addition to the restructuring mentioned above, the need to define some new functionality and IRPs for CM compared to Release 1999, has also been identified. Firstly, a new Bulk CM IRP, and secondly a GERAN Network Resources IRP, have been created. Thirdly, the Generic, UTRAN and GERAN Network Resources IRPs have been extended with support for GSM-UMTS Inter-system handover (ISH), and the 32.600 [10] (Concept and High-level Requirements) has been modified to cover the high-level Bulk CM and ISH requirements.

Table: Mapping between Release '99 and the new specification numbering scheme

| R99 Old no. | Old (R99) specification title | Rel-4 New no. | New (Rel-4) specification title |
|----------------|--|------------------|---|
| 32.106-1 | 3G Configuration Management: Concept and Requirements | 32.600 | 3G Configuration Management: Concept and |
| | | | High-level Requirements |
| 32.106-1 | <notification 32.106-1="" 32.106-2="" and="" from="" irp="" requirements=""></notification> | 32.301 | Notification IRP: Requirements |
| 32.106-2 | Notification IRP: IS | 32.302 | Notification IRP: Information Service |
| 32.106-3 | Notification IRP: CORBA SS | 32.303 | Notification IRP: CORBA SS |
| 32.106-4 | Notification IRP: CMIP SS | 32.304 | Notification IRP: CMIP SS |
| 32.106-8 | Name convention for Managed Objects | 32.300 | Name Convention for Managed Objects |
| 32.106-1 | <basic 32.106-1="" 32.106-5="" and="" cm="" from="" irp="" is="" requirements=""></basic> | 32.601 | Basic CM IRP: Requirements |
| 32.106-5 | Basic CM IRP IM (Intro & IS part) | 32.602 | Basic CM IRP: Information Service |
| 32.106-6 | Basic CM IRP CORBA SS (IS related part) | 32.603 | Basic CM IRP: CORBA SS |
| 32.106-7 | Basic CM IRP CMIP SS (IS related part) | 32.604 | Basic CM IRP: CMIP SS |
| 32.106-8 | Name convention for Managed Objects | 32.300 | Name Convention for Managed Objects |
| - | - | 32.611 | Bulk CM IRP: Requirements |
| - | - | 32.612 | Bulk CM IRP: Information Service |
| - | - | 32.613 | Bulk CM IRP: CORBA SS |
| - | - | 32.614 | Bulk CM IRP: CMIP SS |
| | | 32.615 | Bulk CM IRP: XML file format definition |
| 32.106-1 | <basic 32.106-1="" and<br="" cm="" from="" generic="" irp="" nrm="" requirements="">32.106-5></basic> | 32.621 | Generic Network Resources IRP: Requirements |
| 32.106-5 | Basic CM IRP IM (Generic NRM part) | 32.622 | Generic Network Resources IRP: NRM |
| 32.106-6 | Basic CM IRP CORBA SS (Generic NRM related part) | 32.623 | Generic Network Resources IRP: CORBA SS |
| 32.106-7 | Basic CM IRP CMIP SS (Generic NRM related part) | 32.624 | Generic Network Resources IRP: CMIP SS |
| 32.106-1 | <basic 32.106-1="" 32.106-5="" and="" cm="" cn="" from="" irp="" nrm="" requirements=""></basic> | 32.631 | Core Network Resources IRP: Requirements |
| 32.106-5 | Basic CM IRP IM (CN NRM part) | 32.632 | Core Network Resources IRP: NRM |
| 32.106-6 | Basic CM IRP CORBA SS (CN NRM related part) | 32.633 | Core Network Resources IRP: CORBA SS |
| 32.106-7 | Basic CM IRP CMIP SS (CN NRM related part) | 32.634 | Core Network Resources IRP: CMIP SS |
| 32.106-1 | <basic 32.106-1="" and<br="" cm="" from="" irp="" nrm="" requirements="" utran="">32.106-5></basic> | 32.641 | UTRAN Network Resources IRP: Requirements |
| 32.106-5 | Basic CM IRP IM (UTRAN NRM part) | 32.642 | UTRAN Network Resources IRP: NRM |
| 32.106-6 | Basic CM IRP CORBA SS (UTRAN NRM related part) | 32.643 | UTRAN Network Resources IRP: CORBA SS |
| 32.106-7 | Basic CM IRP CMIP SS (UTRAN NRM related part) | 32.644 | UTRAN Network Resources IRP: CMIP SS |
| | , , , , , , , , , , , , , , , , , , , | 32.651 | GERAN Network Resources IRP: Requirements |
| | | 32.652 | GERAN Network Resources IRP: NRM |
| | | 32.653 | GERAN Network Resources IRP: CORBA SS |
| | | 32.654 | GERAN Network Resources IRP: CMIP SS |

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.

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*.
- 3GPP TS 32.101: "Telecommunication management; Principles and high level requirements".

 3GPP TS 32.102: "Telecommunication management; Architecture".

 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 network resources Integration Reference Point (IRP): Network Resource Model (NRM)".

 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 32.632 [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** MIB Management Information Base **MIM** Management Information Model MIT Management Information Tree (or Naming Tree) MOC Managed Object Class MOI Managed Object Instance Network Element NE NR Network Resource NRM Network Resource Model **TMN** Telecommunications Management Network **UTRAN** Universal Terrestrial Radio Access Network

4 Basic aspects

4.1 Explanation

A technology independent UTRAN network resource model is defined in 3GPP TS 32.642 [4] for 3G networks. The present 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 subclause 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 MOCs

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 MOCs

| Information Objects of the Generic UTAN IRP NRM | MOCs of this CMIP SS |
|---|----------------------|
| RncFunction | rncFunction |
| UtranCell | utranCell |
| lubLink | iubLink |
| NodeBFunction | nodeBFunction |
| UtranRelation | utranRelation |
| ExternalUtranCell | externalUtranCell |

4.2.2 Mapping of Attributes

Table 2: Mapping of Attributes

| Attribute defined in 3GPP TS 32.642 [4] | Attribute defined in this CMIP SS |
|---|-----------------------------------|
| rncFunctionId | rncFunctionId |
| userLabel | userLabel (ITU-T M.3100 1995) |
| nodeBFunctionId | nodeBFunctionId |
| nodeBFunction-lubLink | nodeB2iubLink |
| utranCellId | utranCellId |
| utranCell-lubLink | utranCell2iubLink |
| iubLinkld | iubLinkId |
| iubLink-UtranCell | iubLink2UtranCell |
| iubLink-NodeBFunction | iubLink2NodeBFunction |
| mcc | mcc |
| mnc | mnc |
| rncld | rncld |
| cld | cld |
| localCellId | localCellId |
| uarfcnUl | uarfcnUl |
| uarfcnDI | uarfcnDl |
| primaryScramblingCode | primaryScramblingCode |
| primaryCpichPower | primaryCpichPower |
| maximumTransmissionPower | maximumTransmissionPower |
| primarySchPower | primarySchPower |
| secondarySchPower | secondarySchPower |
| bchPower | bchPower |
| lac | lac |
| rac | rac |
| sac | sac |
| uraList | uraList |
| utranRelationId | utranRelationId |
| adjacentCell | adjacentCell |
| uarfcnUl | uarfcnUl |
| uarfcnDI | uarfcnDl |
| primaryScramblingCode | primaryScramblingCode |
| primaryCpichPower | primaryCpichPower |
| externalUtranCellId | externalUtranCellId |

5 GDMO Definitions

5.1 Managed Object Classes

5.1.1 rncFunction

rncFunction MANAGED OBJECT CLASS

DERIVED FROM "3GPP TS 32.624 Release 4": managedFunction;

CHARACTERIZED BY

rncFunctionBasicPackage,

rncFunctionHandoverPackage;

REGISTERED AS {ts32-644ObjectClass 1};

5.1.2 utranCell

utranCell MANAGED OBJECT CLASS

DERIVED FROM "3GPP TS 32.624 Release 4": managedFunction;

CHARACTERIZED BY

utranCellBasicPackage,

utranCellHandoverPackage,

utranCellAssociationPackage;

REGISTERED AS {ts32-644ObjectClass 2};

5.1.3 utranRelation

utranRelation MANAGED OBJECT CLASS

DERIVED FROM "Recommendation X.721: 1992":top;

CHARACTERIZED BY

utranRelationBasicPackage,

utranRelationAssociationPackage;

CONDITIONAL PACKAGES

"Recommendation M.3100: 1995":createDeleteNotificationsPackage PRESENT IF

"the objectCreation and the objectDeletion defined in Recommendation

X.721 are supported by an instance of this class.",

"Recommendation M.3100: 1995":attributeValueChangeNotificationPackage PRESENT IF

"the attributeValueChange notifications defined in Recommendation X.721

are supported by an instance of this class.";

REGISTERED AS {ts32-644ObjectClass 3};

5.1.4 externalUtranCell

externalUtranCell MANAGED OBJECT CLASS

DERIVED FROM "3GPP TS 32.624 Release 4": managedFunction;

CHARACTERIZED BY

externalUtranCellPackage;

REGISTERED AS {ts32-644ObjectClass 4};

5.1.5 iubLink

iubLink MANAGED OBJECT CLASS

DERIVED FROM "3GPP TS 32.624 Release 4": managedFunction;

CHARACTERIZED BY

iubLinkBasicPackage,

iubLinkAssociationPackage;

REGISTERED AS {ts32-644ObjectClass 5};

5.1.6 nodeBFunction

nodeBFunction MANAGED OBJECT CLASS

DERIVED FROM "3GPP TS 32.624 Release 4": managedFunction;

CHARACTERIZED BY

nodeBFunctionBasicPackage,

nodeBFunctionAssociationPackage;

REGISTERED AS {ts32-644ObjectClass 6};

5.2 Packages

5.2.1 rncFunctionHandoverPackage

rncFunctionHandoverPackage PACKAGE

BEHAVIOUR

rncFunctionHandoverPackageBehaviour;

ATTRIBUTES

mcc GET-REPLACE,

mnc GET-REPLACE.

rncId GET-REPLACE;

REGISTERED AS {ts32-644Package 1};

rncFunctionHandoverPackageBehaviour BEHAVIOUR

DEFINED AS

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

5.2.2 utranCellHandoverPackage

utranCellHandoverPackage PACKAGE

BEHAVIOUR

utranCellHandoverPackageBehaviour;

ATTRIBUTES

cId GET-REPLACE,

localCellId GET-REPLACE,

uarfcnUl GET-REPLACE,

uarfcnDl GET-REPLACE,

primaryScramblingCode GET-REPLACE,

```
primaryCpichPower GET-REPLACE,
maximumTransmissionPower GET-REPLACE,
primarySchPower GET-REPLACE,
secondarySchPower GET-REPLACE,
bchPower GET-REPLACE,
lac GET-REPLACE,
rac GET-REPLACE,
sac GET-REPLACE,
sac GET-REPLACE,
WITH STATEMENT OF THE PLACE AND STATEMENT OF
```

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

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,

lac GET-REPLACE,

rac GET-REPLACE:

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 in another NEM.";

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};

${\bf node BFunction Association Package Behaviour} \ {\tt BEHAVIOUR}$

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;

mccBehaviour BEHAVIOUR

REGISTERED AS {ts32-644Attribute 1};

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.RncId;

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.CId;

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.LocalCellId;

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 EQUALITY;

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).";

5.3.7a primaryScramblingCode

primaryScramblingCode ATTRIBUTE

WITH ATTRIBUTE SYNTAX TS32-644TypeModule.PrimaryScramblingCode;

MATCHES FOR EQUALITY;

BEHAVIOUR

primaryScramblingCodeBehaviour;

REGISTERED AS {ts32-644Attribute 8};

primaryScramblingCodeBehaviour BEHAVIOUR

DEFINED AS

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

5.3.8 primaryCpichPower

primaryCpichPower ATTRIBUTE

WITH ATTRIBUTE SYNTAX TS32-644TypeModule.PrimaryCpichPower;

MATCHES FOR EQUALITY;

BEHAVIOUR

primaryCpichPowerBehaviour;

REGISTERED AS {ts32-644Attribute 9};

primaryCpichPowerBehaviour BEHAVIOUR

DEFINED AS

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

5.3.9 maximumTransmissionPower

maximumTransmissionPower ATTRIBUTE

WITH ATTRIBUTE SYNTAX TS32-644TypeModule.MaximumTransmissionPower;

MATCHES FOR EQUALITY;

BEHAVIOUR

maximumTransmissionPowerBehaviour;

REGISTERED AS {ts32-644Attribute 10};

maximumTransmissionPowerBehaviour BEHAVIOUR

DEFINED AS

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

5.3.10 primarySchPower

primarySchPower ATTRIBUTE

WITH ATTRIBUTE SYNTAX TS32-644TypeModule.PrimarySchPower;

MATCHES FOR EQUALITY;

BEHAVIOUR

primarySchPowerBehaviour;

REGISTERED AS {ts32-644Attribute 11};

primarySchPowerBehaviour BEHAVIOUR

DEFINED AS

"The power of the primary synchronisation channel in the cell, DL Power (Ref. 3 GPP TS 25.433).";

5.3.11 secondarySchPower

secondarySchPower ATTRIBUTE

WITH ATTRIBUTE SYNTAX TS32-644TypeModule.SecondarySchPower;

MATCHES FOR EQUALITY;

BEHAVIOUR

secondarySchPowerBehaviour;

REGISTERED AS {ts32-644Attribute 12};

secondarySchPowerBehaviour BEHAVIOUR

DEFINED AS

"The power of the secondary synchronisation channel in the cell, DL Power (Ref. 3 GPP TS 25.433).";

5.3.12 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).";

5.3.13 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)";

5.3.14 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)";

5.3.15 sac

sac ATTRIBUTE

WITH ATTRIBUTE SYNTAX TS32-644TypeModule.Sac;

MATCHES FOR EQUALITY;

BEHAVIOUR

sacBehaviour;

REGISTERED AS {ts32-644Attribute 16};

sacBehaviour BEHAVIOUR

DEFINED AS

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

5.3.16 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)";

5.3.17 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.";

5.3.18 relationType

Void.

5.3.19 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.";

5.3.20 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.";

5.3.21 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.";

5.3.22 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.";

5.3.23 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. ";

5.3.24 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.";

5.3.25 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.";

5.3.26 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";

5.3.27 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.";

5.3.28 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 Release4": 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};

rncFunction-managedElementBehaviour 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 Release4": 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

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;

DELETE 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 Release4": 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 vsDataContainer - rncFunction

vsDataContainer-rncFunction NAME BINDING

SUBORDINATE OBJECT CLASS "3GPP TS 32.624 Release4": vsDataContainer;

NAMED BY SUPERIOR OBJECT CLASS rncFunction;

WITH ATTRIBUTE vsDataContainerId;

BEHAVIOUR

vsDataContainer-rncFunctionBehaviour;

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

DELETE ONLY-IF-NO-CONTAINED-OBJECTS;

REGISTERED AS {ts32-644NameBinding 6};

vsDataContainer-rncFunctionBehaviour BEHAVIOUR

DEFINED AS

"The name binding represents a relationship in which a rncFunction contains and controls a vsDataContainer. When automatic instance naming is used, the choice

of name bindings is left as a local matter. This containment relation shall be used only with BulkCmIRP CMIP SS defined in 3GPP TS 32.614 Release 4.";

5.4.7 vsDataContainer - nodeBFunction

vsDataContainer-nodeBFunction NAME BINDING

SUBORDINATE OBJECT CLASS "3GPP TS 32.624 Release4": vsDataContainer:;

NAMED BY SUPERIOR OBJECT CLASS nodeBFunction;

WITH ATTRIBUTE "3GPP TS 32.624 Release4": vsDataContainerId;

BEHAVIOUR

vsDataContainer-nodeBFunctionBehaviour;

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

DELETE ONLY-IF-NO-CONTAINED-OBJECTS;

REGISTERED AS {ts32-644NameBinding 7};

vsDataContainer-nodeBFunctionBehaviour BEHAVIOUR

DEFINED AS

"The name binding represents a relationship in which a nodeBFunction contains and controls a vsDataContainer. When automatic instance naming is used, the choice

of name bindings is left as a local matter. This containment relation shall be used only with BulkCmIRP CMIP SS defined in 3GPP TS 32.614 Release 4.";

5.4.8 vsDataContainer - utranCell

vsDataContainer-utranCell NAME BINDING

SUBORDINATE OBJECT CLASS "3GPP TS 32.624 Release4": vsDataContainer:;

NAMED BY SUPERIOR OBJECT CLASS utranCell:

WITH ATTRIBUTE "3GPP TS 32.624 Release4": vsDataContainerId;

BEHAVIOUR

vsDataContainer-utranCellBehaviour;

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

DELETE ONLY-IF-NO-CONTAINED-OBJECTS;

REGISTERED AS {ts32-644NameBinding 8};

vsDataContainer-utranCellBehaviour BEHAVIOUR

DEFINED AS

"The name binding represents a relationship in which a utranCell contains and controls a vsDataContainer. When automatic instance naming is used, the choice

of name bindings is left as a local matter. This containment relation shall be used only with BulkCmIRP CMIP SS defined in 3GPP TS 32.614 Release 4.";

5.4.9 vsDataContainer - utranRelation

vsDataContainer-utranRelation NAME BINDING

SUBORDINATE OBJECT CLASS "3GPP TS 32.624 Release4": vsDataContainer:;

NAMED BY SUPERIOR OBJECT CLASS utranRelation;

WITH ATTRIBUTE "3GPP TS 32.624 Release4": vsDataContainerId;

BEHAVIOUR

vsDataContainer-utranRelationBehaviour;

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

DELETE ONLY-IF-NO-CONTAINED-OBJECTS;

REGISTERED AS {ts32-644NameBinding 9};

vsDataContainer-utranRelationBehaviour BEHAVIOUR

DEFINED AS

"The name binding represents a relationship in which a utranRelation contains and controls a vsDataContainer. When automatic instance naming is used, the choice

of name bindings is left as a local matter. This containment relation shall be used only with BulkCmIRP CMIP SS defined in 3GPP TS 32.614 Release 4.";

5.4.10 iubLink - rncFunction

iubLink-rncFunction NAME BINDING

SUBORDINATE OBJECT CLASS iubLink;

NAMED BY SUPERIOR OBJECT CLASS rncFunction;

WITH ATTRIBUTE iubLinkId:

BEHAVIOUR

iubLink-rncFunctionBahaviour:

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

DELETE ONLY-IF-NO-CONTAINED-OBJECTS;

REGISTERED AS {ts32-644NameBinding 10};

iubLink-rncFunctionBahaviour BEHAVIOUR

DEFINED AS

"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.";

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) version1 (1)}
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)}
```

-- Start of 3GPP SA5 own definitions

RncId ::= INTEGER
CId ::= INTEGER

ts32-644Notification OBJECT IDENTIFIER ::= { ts32-644InfoModel notification(10)}

LocalCellId ::= INTEGER 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 | | | | | Cosmetics/Styles | 4.1.0 | 4.1.1 |
| Jun 2003 | S_20 | SP-030283 | 002 | | Removal of relationType | 4.1.1 | 4.2.0 |
| Dec 2003 | S_22 | SP-030646 | 800 | | Correction of the number of possible URAs from 1 to 8 | 4.2.0 | 4.3.0 |
| | | | | | | | |
| | | | | | | | |

History

| Document history | | | | |
|------------------|----------------|-------------------------|--|--|
| V4.0.0 | June 2001 | Publication | | |
| V4.1.0 | September 2001 | Publication (Withdrawn) | | |
| V4.1.1 | September 2002 | Publication | | |
| V4.2.0 | June 2003 | Publication | | |
| V4.3.0 | December 2003 | Publication | | |