

# ETSI TS 132 644 V5.2.0 (2003-09)

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*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 5.2.0 Release 5)**

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Reference

RTS/TSGS-0532644v520

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Keywords

UMTS

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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].

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# 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 **V5.2.x**.

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# 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".

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## 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
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 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 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
IubLink	iubLink
UtranRelation	utranRelation
ExternalUtranCell	externalUtranCell

#### 4.2.2 Mapping of Information Object Class Attributes

This chapter 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	M
userLabel	userLabel (ITU-T M.3100 [9])	M
mcc	mcc	M
mnc	mnc	M
rnclId	rnclId	M

##### 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 M.3100 [9])	M
nodeBFunction-IubLink	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	M
userLabel	userLabel (ITU-T M.3100 [9])	M
cId	cId	M
localCellId	localCellId	M
uarfcnDI	uarfcnDI	M
uarfcnUI	uarfcnUI	M
primaryScramblingCode	primaryScramblingCode	M
primaryCpichPower	primaryCpichPower	M
maximumTransmissionPower	maximumTransmissionPower	M
primarySchPower	primarySchPower	M
secondarySchPower	secondarySchPower	M
bchPower	bchPower	M
lac	lac	M
rac	rac	M
sac	sac	M
ura	ura	M
utranCell-IubLink	utranCell2iubLink	M
operationalState	operationalState	O

4.2.2.4 Attribute Mapping of the IOC *IubLink*Table 5: Attribute mapping of the IOC *IubLink*

IS Attribute	CMIP SS Attribute	Qualifier
iubLinkId	iubLinkId	M
userLabel	userLabel (ITU-T M.3100 [9])	M
iubLink-UtranCell	iubLink2utranCell	M
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
uarfcnUI	uarfcnUI	O
uarfcnDI	uarfcnDI	O
primaryScramblingCode	primaryScramblingCode	O
primaryCpichPower	primaryCpichPower	O
lac	lac	O

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
cId	cId	M
mcc	mcc	M
mnc	mnc	M
rnCId	rnCId	M
uarfcnUI	uarfcnUI	M
uarfcnDI	uarfcnDI	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;
REGISTERED AS {ts32-644ObjectClass 1};
```

#### 5.1.2 utranCell

```
utranCell MANAGED OBJECT CLASS
DERIVED FROM
  "3GPP TS 32.624 Release 5": managedFunction;
CHARACTERIZED BY
  utranCellBasicPackage,
  utranCellHandoverPackage,
  utranCellAssociationPackage;
CONDITIONAL PACKAGES
  "3GPP TS 32.674 Release 5": operationalStateAttributePackage
PRESENT IF
  "Instances of this MOC support operationalState attribute.";
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 5": managedFunction;
CHARACTERIZED BY
  externalUtranCellPackage;
REGISTERED AS {ts32-644ObjectClass 4};
```

#### 5.1.5 iubLink

```
iubLink MANAGED OBJECT CLASS
DERIVED FROM
  "3GPP TS 32.624 Release 5": 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 5": 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,
    ura          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  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};

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 rncId

```
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 cId

```
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**  
 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).";

### 5.3.8 primaryScramblingCode

primaryScramblingCode **ATTRIBUTE**  
**WITH ATTRIBUTE SYNTAX**  
 TS32-644TypeModule.PrimaryScramblingCode;  
**MATCHES FOR**  
 EQUALITY;  
**BEHAVIOUR**  
 primaryScramblingCodeBehaviour;  
**REGISTERED AS** {ts32-644Attribute 8};

primaryScramblingCodeBehaviour **BEHAVIOUR**  
**DEFINED AS**

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

### 5.3.9 primaryCpichPower

primaryCpichPower **ATTRIBUTE**  
**WITH ATTRIBUTE SYNTAX**  
 TS32-644TypeModule.PrimaryCpichPower;  
**MATCHES FOR**  
 EQUALITY;  
**BEHAVIOUR**  
 primaryCpichPowerBehaviour;  
**REGISTERED AS** {ts32-644Attribute 9};

primaryCpichPowerBehaviour **BEHAVIOUR**  
**DEFINED AS**

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

### 5.3.10 maximumTransmissionPower

maximumTransmissionPower **ATTRIBUTE**  
**WITH ATTRIBUTE SYNTAX**  
TS32-644TypeModule.MaximumTransmissionPower;  
**MATCHES FOR**  
EQUALITY;  
**BEHAVIOUR**  
maximumTransmissionPowerBehaviour;  
**REGISTERED AS** {ts32-644Attribute 10};

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

### 5.3.11 primarySchPower

primarySchPower **ATTRIBUTE**  
**WITH ATTRIBUTE SYNTAX**  
TS32-644TypeModule.PrimarySchPower;  
**MATCHES FOR**  
EQUALITY;  
**BEHAVIOUR**  
primarySchPowerBehaviour;  
**REGISTERED AS** {ts32-644Attribute 11};

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

### 5.3.12 secondarySchPower

secondarySchPower **ATTRIBUTE**  
**WITH ATTRIBUTE SYNTAX**  
TS32-644TypeModule.SecondarySchPower;  
**MATCHES FOR**  
EQUALITY;  
**BEHAVIOUR**  
secondarySchPowerBehaviour;  
**REGISTERED AS** {ts32-644Attribute 12};

secondarySchPowerBehaviour **BEHAVIOUR**  
**DEFINED AS**  
"The power of the secondary synchronisation channel in the 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;  
**REGISTERED AS** {ts32-644Attribute 16};

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

### 5.3.17 ura

ura **ATTRIBUTE**  
**WITH ATTRIBUTE SYNTAX**  
TS32-644TypeModule.Ura;  
**MATCHES FOR**  
EQUALITY;  
**BEHAVIOUR**  
uraBehaviour;  
**REGISTERED AS** {ts32-644Attribute 17};

uraBehaviour **BEHAVIOUR**  
**DEFINED AS**  
"UTRAN Registration Area, URA (Ref. 3 GPP TS 25.423)";

### 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 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.";

```

## 5.4 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};

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 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
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 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;
  DELETE
    ONLY-IF-NO-CONTAINED-OBJECTS;
REGISTERED AS {ts32-644NameBinding 10};
```

```
iubLink-rncFunctionBehaviour 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.";
```

## 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.";
```



## 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)}
```

```
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
```

```
Ura ::= 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
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

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## History

<b>Document history</b>		
V5.0.0	December 2002	Publication
V5.1.0	June 2003	Publication
V5.2.0	September 2003	Publication