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Technical Specification

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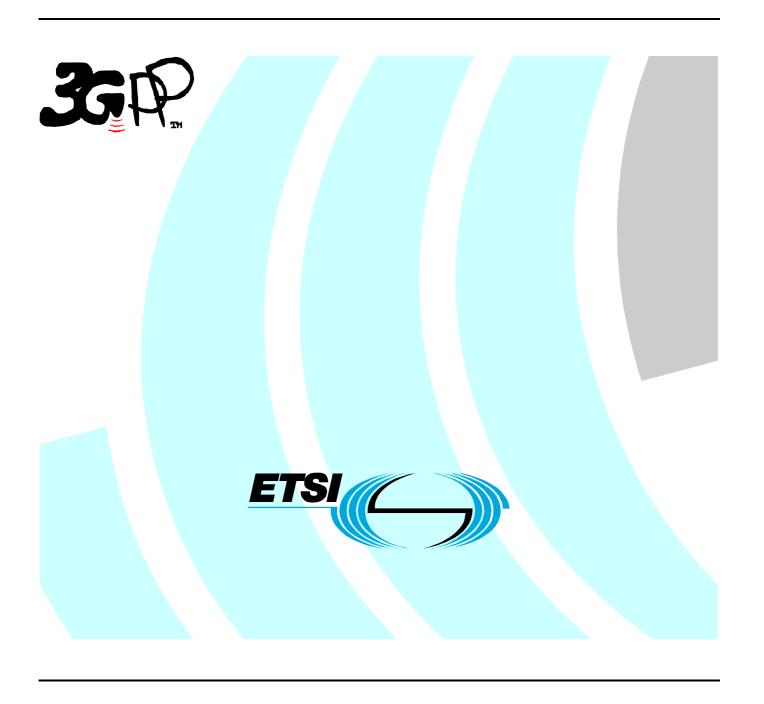
Configuration Management (CM);

UTRAN network resources Integration Reference Point (IRP):

Common Management Information Protocol (CMIP)

Solution Set (SS)

(3GPP TS 32.644 version 5.5.0 Release 5)



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Introduction

The present document is part of a TS-family covering the 3rd Generation Partnership Project; Technical Specification Group Services and System Aspects; Telecommunication management; Configuration Management (CM), as identified below:

32.641:	"UTRAN network resources l	Integration Reference	Point (IRP): Requirements".
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32.642: "UTRAN network resources Integration Reference Point (IRP): Network Resource Model

(NRM)".

32.643: "UTRAN network resources Integration Reference Point (IRP): Common Object Request Broker

Architecture (CORBA) Solution Set (SS)".

32.644: "UTRAN network resources Integration Reference Point (IRP): Common Management

Information Protocol (CMIP) Solution Set (SS)".

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 V5.4.x.

2 References

[8]

[9]

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.

- Alarm Reporting Function".

Network - Generic Network Information Model".

• 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*.

Release as th	he 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".

ITU-T Recommendation X.733 (02/92): "Information Technology - Open Systems Interconnection

ITU-T Recommendation M.3100 (07/95): "Maintenance Telecommunications Management

Definitions, symbols and abbreviations 3

Definitions 3.1

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.

Abbreviations 3.2

MIM

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 Management Information Tree (or Naming Tree) MIT

MOC Managed Object Class MOI Managed Object Instance NE Network Element NR Network Resource Network Resource Model NRM

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	rncFunctionR55
NodeBFunction	nodeBFunction
UtranCell	utranCellR55
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])	M
mcc	mcc	M
mnc	mnc	M
rncld	rncldR55	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 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])	М
cld	cldR55	М
localCellId	localCellIdR55	М
uarfcnDI	uarfcnDl	М
uarfcnUl	uarfcnUl	М
primaryScramblingCode	primaryScramblingCode	М
primaryCpichPower	primaryCpichPower	М
maximumTransmissionPower	maximumTransmissionPower	М
primarySchPower	primarySchPower	М
secondarySchPower	secondarySchPower	М
bchPower	bchPower	М
lac	lac	М
rac	rac	M
sac	sac	М
uraList	uraList	М
utranCell-lubLink	utranCell2iubLink	М
operationalState	operationalState	0

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])	M
iubLink-UtranCell	iubLink2utranCell	М
iubLink-NodeBFunction	iubLink2nodeBFunction	М

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	М
adjacentCell	adjacentCell	М
uarfcnUl	uarfcnUl	0
uarfcnDl	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. \rm X.721
              is supported by an instance of this class.";
REGISTERED AS {ts32-6440bjectClass 1};
```

5.1.2 utranCell

Void.

5.1.3 utranRelation

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. \rm 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};
```

5.1.7 utranCellR54

```
utranCellR54 MANAGED OBJECT CLASS
  DERIVED FROM
      "3GPP TS 32.624 Release 5": managedFunction;
   CHARACTERIZED BY
      utranCellBasicPackage,
      utranCellHandoverPackageR54.
      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 7};
```

5.1.8 rncFunctionR55

```
rncFunctionR55 MANAGED OBJECT CLASS
   DERIVED FROM
    "3GPP TS 32.624 Release 5": managedFunction;
CHARACTERIZED BY
    rncFunctionBasicPackage,
    rncFunctionHandoverPackageR55,
    "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 8};
```

5.1.9 utranCellR55

```
utranCellR55 MANAGED OBJECT CLASS
  DERIVED FROM
      "3GPP TS 32.624 Release 5": managedFunction;
   CHARACTERIZED BY
      utranCellBasicPackage,
      utranCellHandoverPackageR55,
      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 9};
```

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

Void.

5.2.3 utranRelationBasicPackage

```
utranRelationBasicPackage PACKAGE
   BEHAVIOUR
      utranRelationBasicPackageBehaviour;
   ATTRIBUTES
      utranRelationId
                                  GET.
      uarfcnUl
                                  GET.
      uarfcnDl
                                  GET.
      primaryScramblingCode
                                  GET.
      primaryCpichPower
                                  GET.
                                  GET;
      lac
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.
                                 GET-REPLACE,
                                 GET-REPLACE,
     mcc
                                 GET-REPLACE,
     mnc
     rncId
                                 GET-REPLACE
     uarfcnUl
                                 GET-REPLACE,
     uarfcnDl
                                 GET-REPLACE,
     primaryScramblingCode
                                 GET-REPLACE.
     primaryCpichPower
                                 GET-REPLACE.
                                 GET-REPLACE
     rac
                                 GET-REPLACE
```

REGISTERED AS {ts32-644Package 5};

externalUtranCellPackageBehaviour ${\tt BEHAVIOUR}$ ${\tt DEFINED}$ 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

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

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.";
```

utranCellHandoverPackageR54 PACKAGE

ATTRIBUTES cId

GET-REPLACE,

5.2.13 utranCellHandoverPackageR54

utranCellHandoverPackageR54Behaviour;

```
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.
      uraList
                                   GET-REPLACE;
REGISTERED AS {ts32-644Package 13};
utranCellHandoverPackageR54Behaviour BEHAVIOUR
DEFINED AS
   "This package contains all new attributes defined for UTRAN handover management.
    These attributes are introduced in R4.";
           rncFunctionHandoverPackageR55
rncFunctionHandoverPackageR55 PACKAGE
  BEHAVIOUR
      rncFunctionHandoverPackageR55Behaviour;
   ATTRIBUTES
                   GET-REPLACE.
     mcc
     mnc
                   GET-REPLACE
                 GET-REPLACE;
     rncIdR55
REGISTERED AS {ts32-644Package 14};
rncFunctionHandoverPackageR55Behaviour BEHAVIOUR
DEFINED AS
   "This package contains all new attributes defined for UTRAN handover management.
    These attributes are introduced in R4.";
5.2.15
           utranCellHandoverPackageR55
utranCellHandoverPackageR55 PACKAGE
  BEHAVIOUR
      utranCellHandoverPackageR55Behaviour;
   ATTRIBUTES
     cIdR55
                                   GET-REPLACE,
      localCellIdR55
                                   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,
      uraList
                                   GET-REPLACE;
REGISTERED AS {ts32-644Package 15};
utranCellHandoverPackageR55Behaviour BEHAVIOUR
DEFINED AS
   "This package contains all new attributes defined for UTRAN handover management.
    These attributes are introduced in R4.";
```

5.3 Attributes

5.3.1 mcc

EQUALITY; **BEHAVIOUR**

```
mcc Attribute
  WITH ATTRIBUTE SYNTAX
      TS32-644TypeModule.MobileCountryCode;
  MATCHES FOR
     EOUALITY;
   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
   "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
   "cId is the identifier of a cell in one RNC (Ref. 3 GPP TS 25.401).";
           localCellId
5.3.5
localCellId ATTRIBUTE
  WITH ATTRIBUTE SYNTAX
     TS32-644TypeModule.GeneralObjectId;
  MATCHES FOR
```

```
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).";
           primaryScramblingCode
5.3.8
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).";
5.3.9
           primaryCpichPower
primaryCpichPower ATTRIBUTE
  WITH ATTRIBUTE SYNTAX
     TS32-644TypeModule.PrimaryCpichPower;
   MATCHES FOR
     EQUALITY;
  BEHAVTOUR
     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
\verb"rac ATTRIBUTE"
   WITH ATTRIBUTE SYNTAX
     TS32-644TypeModule.Rac;
  MATCHES FOR
     EQUALITY;
   BEHAVIOUR
     racBehaviour;
REGISTERED AS {ts32-644Attribute 15};
racBehaviour BEHAVIOUR
DEFINED AS
   "Routing Area Code, RAC (Ref. 3 GPP TS 23.003)";
```

5.3.16 sac

```
sac ATTRIBUTE
WITH ATTRIBUTE SYNTAX
    TS32-644TypeModule.Sac;
MATCHES FOR
    EQUALITY;
BEHAVIOUR
    sacBehaviour;
REGISTERED AS {ts32-644Attribute 16};
sacBehaviour BEHAVIOUR
DEFINED AS
    "Service Area Code, RAC (Ref. 3 GPP TS 23.003)";
```

5.3.17 ura

Void.

5.3.18 utranRelationId

```
utranRelationId ATTRIBUTE
WITH ATTRIBUTE SYNTAX
TS32-644TypeModule.GeneralObjectId;
MATCHES FOR
EQUALITY;
BEHAVIOUR
utranRelationIdBehaviour;
REGISTERED AS {ts32-644Attribute 18};
utranRelationIdBehaviour BEHAVIOUR
DEFINED AS
"This attribute identifies an utranRelation object.";
```

5.3.19 relationType

Void.

5.3.20 adjacentCell

```
adjacentCell ATTRIBUTE
WITH ATTRIBUTE SYNTAX
TS32-644TypeModule.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};
iubLink2nodeBFunctionBehaviour BEHAVIOUR
DEFINED AS
    "This attribute points to the nodeBFunction instance which this iubLink instance connects directly to.";
```

5.3.27 iubLink2utranCell

```
iubLink2utranCell ATTRIBUTE
    WITH ATTRIBUTE SYNTAX
        TS32-644TypeModule.GeneralObjectPointerList;
    MATCHES FOR
        EQUALITY;
    BEHAVIOUR
        iubLink2utranCellBehaviour;
REGISTERED AS {ts32-644Attribute 27};
iubLink2utranCellBehaviour BEHAVIOUR
DEFINED AS
    "This attribute points from an iubLink instance to a list of utranCell instance";
```

5.3.28 nodeBFunctionId

```
nodeBFunctionId ATTRIBUTE

WITH ATTRIBUTE SYNTAX

TS32-644TypeModule.GeneralObjectId;

MATCHES FOR
EQUALITY;
BEHAVIOUR
nodeBFunctionIdBehaviour;

REGISTERED AS {ts32-644Attribute 28};

nodeBFunctionIdBehaviour BEHAVIOUR
DEFINED AS

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

5.3.29 nodeB2iubLink

```
nodeB2iubLink ATTRIBUTE
WITH ATTRIBUTE SYNTAX
    TS32-644TypeModule.GeneralObjectPointer;
MATCHES FOR
    EQUALITY;
BEHAVIOUR
    nodeB2iubLinkBehaviour;
REGISTERED AS {ts32-644Attribute 29};

nodeB2iubLinkBehaviour BEHAVIOUR
DEFINED AS
    "This attribute points to the IubLink instance which connects to the related nodeBFunction instance directly.";
```

5.3.30 uraList

```
uraList ATTRIBUTE
WITH ATTRIBUTE SYNTAX
    TS32-644TypeModule.UraList;
MATCHES FOR
    EQUALITY;
BEHAVIOUR
    uraListBehaviour;
REGISTERED AS {ts32-644Attribute 30};

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

5.3.31 rncldR55

```
rncidR55 ATTRIBUTE
WITH ATTRIBUTE SYNTAX
    TS32-644TypeModule.RncId;
MATCHES FOR
    EQUALITY;
BEHAVIOUR
    rncidR55Behaviour;
REGISTERED AS {ts32-644Attribute 31};
rncidR55Behaviour BEHAVIOUR
DEFINED AS
    "Unique RNC ID (Ref. 3 GPP TS 23.003).";
```

5.3.32 cldR55

```
cIdR55 ATTRIBUTE
WITH ATTRIBUTE SYNTAX
    TS32-644TypeModule.CId;
MATCHES FOR
    EQUALITY;
BEHAVIOUR
    cIdR55Behaviour;
REGISTERED AS {ts32-644Attribute 32};

cIdR55Behaviour BEHAVIOUR
DEFINED AS
    "cId is the identifier of a cell in one RNC (Ref. 3 GPP TS 25.401).";
```

5.3.33 localCellIdR55

```
localCellIdR55 ATTRIBUTE
WITH ATTRIBUTE SYNTAX
    TS32-644TypeModule.LocalCellId;
MATCHES FOR
    EQUALITY;
BEHAVIOUR
    localCellIdR55Behaviour;
REGISTERED AS {ts32-644Attribute 33};

localCellIdR55Behaviour BEHAVIOUR

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

5.4 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;
     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

Void.

5.4.4 utranRelation - utranCell

Void.

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 vsDataContainer - rncFunction

Void.

5.4.7 vsDataContainer - nodeBFunction

Void.

5.4.8 vsDataContainer - utranCell

Void.

5.4.9 vsDataContainer - utranRelation

Void.

5.4.10 iubLink - rncFunction

```
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
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.";
```

5.4.11 gsmRelation - utranCell

Void.

5.4.12 utranCellR54 - rncFunction

```
utranCellR54-rncFunction NAME BINDING
  SUBORDINATE OBJECT CLASS
      utranCellR54;
  NAMED BY SUPERIOR OBJECT CLASS
     rncFunction;
   WITH ATTRIBUTE
     utranCellId;
   BEHAVIOUR
      utranCellR54-rncFunctionBehaviour;
     WITH-REFERENCE-OBJECT, WITH-AUTOMATIC-INSTANCE-NAMING;
   DELETE
      ONLY-IF-NO-CONTAINED-OBJECTS;
REGISTERED AS {ts32-644NameBinding 12};
utranCellR54-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.";
```

5.4.13 utranRelation - utranCellR54

```
utranRelation-utranCellR54 NAME BINDING
   SUBORDINATE OBJECT CLASS
      utranRelation;
   NAMED BY SUPERIOR OBJECT CLASS
      utranCellR54;
   WITH ATTRIBUTE
     utranRelationId;
   BEHAVIOUR
      utranRelation-utranCellR54Behaviour;
   CREATE
     WITH-REFERENCE-OBJECT, WITH-AUTOMATIC-INSTANCE-NAMING;
   DELETE
      ONLY-IF-NO-CONTAINED-OBJECTS;
REGISTERED AS {ts32-644NameBinding 13};
utranRelation-utranCellR54Behaviour BEHAVIOUR
DEFINED AS
   "The name binding represents a relationship in which an utranCellR54 contains
    and controls an utranRelation. When automatic instance naming is used, the choice
   of name bindings is left as a local matter.";
```

5.4.14 gsmRelation - utranCellR54

```
gsmRelation-utranCellR54 NAME BINDING
   SUBORDINATE OBJECT CLASS
      "3GPP TS 32.654 Release 5": gsmRelation;
   NAMED BY SUPERIOR OBJECT CLASS
     utranCellR54;
   WITH ATTRIBUTE
      "3GPP TS 32.654 Release 5": gsmRelationId;
   BEHAVIOUR
      gsmRelation-utranCellR54Behaviour;
   CREATE
      WITH-REFERENCE-OBJECT, WITH-AUTOMATIC-INSTANCE-NAMING;
   DELETE
      ONLY-IF-NO-CONTAINED-OBJECTS;
REGISTERED AS {ts32-644NameBinding 14};
gsmRelation-utranCellR54Behaviour BEHAVIOUR
DEFINED AS
   "The name binding represents a relationship in which an utranCellR54 contains
    and controls a gsmRelation. When automatic instance naming is used, the choice
    of name bindings left as a local matter.";
```

5.4.15 rncFunctionR55 - managedElement

```
rncFunctionR55-managedElement NAME BINDING
   SUBORDINATE OBJECT CLASS
      rncFunctionR55;
   NAMED BY SUPERIOR OBJECT CLASS
      "3GPP TS 32.624 Release 5": managedElement;
   WITH ATTRIBUTE
     rncFunctionId;
   BEHAVIOUR
     rncFunctionR55-managedElementBehaviour;
   CREATE
      WITH-REFERENCE-OBJECT, WITH-AUTOMATIC-INSTANCE-NAMING;
      ONLY-IF-NO-CONTAINED-OBJECTS;
REGISTERED AS {ts32-644NameBinding 15};
rncFunctionR55-managedElementBehaviour BEHAVIOUR
   "The name binding represents a relationship in which a managedElement contains
    and controls a rncFunctionR55. When automatic instance naming is used, the choice
    of name bindings is left as a local matter.";
```

5.4.16 iubLink - rncFunctionR55

```
iubLink-rncFunctionR55 NAME BINDING
SUBORDINATE OBJECT CLASS
```

27

```
iubLink;
   NAMED BY SUPERIOR OBJECT CLASS
     rncFunctionR55;
   WITH ATTRIBUTE
      iubLinkId;
   BEHAVIOUR
      iubLink-rncFunctionR55Behaviour;
   CREATE
      WITH-REFERENCE-OBJECT, WITH-AUTOMATIC-INSTANCE-NAMING;
   DELETE
      ONLY-IF-NO-CONTAINED-OBJECTS;
REGISTERED AS {ts32-644NameBinding 16};
iubLink-rncFunctionR55Behaviour BEHAVIOUR
DEFINED AS
   "The name binding represents a relationship in which a rncFunctionR55 contains
    and controls a iubLink. When automatic instance naming is used, the choice
    of name bindings left as a local matter.";
```

5.4.17 utranCellR55 - rncFunctionR55

```
utranCellR55-rncFunctionR55 NAME BINDING
   SUBORDINATE OBJECT CLASS
      utranCellR55;
   NAMED BY SUPERIOR OBJECT CLASS
     rncFunctionR55;
   WITH ATTRIBUTE
      utranCellId;
   BEHAVIOUR
     utranCellR55-rncFunctionR55Behaviour;
   CREATE
     WITH-REFERENCE-OBJECT, WITH-AUTOMATIC-INSTANCE-NAMING;
   DELETE
      ONLY-IF-NO-CONTAINED-OBJECTS;
REGISTERED AS {ts32-644NameBinding 17};
utranCellR55-rncFunctionR55Behaviour BEHAVIOUR
DEFINED AS
   "The name binding represents a relationship in which a rncFunctionR55 contains
    and controls an utranCellR55. When automatic instance naming is used, the choice
    of name bindings is left as a local matter.";
```

5.4.18 utranRelation - utranCellR55

```
utranRelation-utranCellR55 NAME BINDING
   SUBORDINATE OBJECT CLASS
      utranRelation;
  NAMED BY SUPERIOR OBJECT CLASS
     utranCellR55;
   WITH ATTRIBUTE
     utranRelationId;
   BEHAVIOUR
     utranRelation-utranCellR55Behaviour;
   CREATE
      WITH-REFERENCE-OBJECT, WITH-AUTOMATIC-INSTANCE-NAMING;
   DELETE
      ONLY-IF-NO-CONTAINED-OBJECTS;
REGISTERED AS {ts32-644NameBinding 18};
utranRelation-utranCellR55Behaviour BEHAVIOUR
DEFINED AS
   "The name binding represents a relationship in which an utranCellR55 contains
    and controls an utranRelation. When automatic instance naming is used, the choice
    of name bindings is left as a local matter.";
```

5.4.19 gsmRelation - utranCellR55

```
gsmRelation-utranCellR55 NAME BINDING
SUBORDINATE OBJECT CLASS
    "3GPP TS 32.654 Release 5": gsmRelation;
NAMED BY SUPERIOR OBJECT CLASS
    utranCellR54;
WITH ATTRIBUTE
    "3GPP TS 32.654 Release 5": gsmRelationId;
```

BEHAVIOUR

gsmRelation-utranCellR55Behaviour;

CREATE

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

DELETE

ONLY-IF-NO-CONTAINED-OBJECTS;
REGISTERED AS {ts32-644NameBinding 19};

REGISTERED AS (CS32-044NameBilliding 19)

${\tt gsmRelation-utranCellR55Behaviour} \ \, {\tt BEHAVIOUR} \\ {\tt DEFINED} \ \, {\tt AS} \\$

"The name binding represents a relationship in which an utranCellR55 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)
   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)
   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
BchPower ::= INTEGER
CId ::= INTEGER
Lac ::= INTEGER
LocalCellId ::= INTEGER
MaximumTransmissionPower ::= INTEGER
PrimaryCpichPower ::= INTEGER
PrimarySchPower ::= INTEGER
PrimaryScramblingCode ::= INTEGER
Rac ::= INTEGER
RncTd ::= INTEGER
Sac ::= INTEGER
SecondarySchPower ::= INTEGER
UarfcnDl ::= INTEGER
UarfcnUl ::= 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	
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			5.2.0	5.3.0	
Dec 2003	S_22	SP-030642	010		3 · · · · · · · · · · · · · · · · · · ·	5.2.0	5.3.0	
Mar 2004	S_23	SP-040132	011		Correction of OIDs of the MOCs, packages and attributes affected by the change from ura to uraList	5.3.0	5.4.0	
Jun 2004	S_24	SP-040255	012		Correction of type of the attributes cld, localCellId and rncld	5.4.0	5.5.0	
Jun 2004	S_24	SP-040254	013		The specification does not support all UMTS frequency bands	5.4.0	5.5.0	

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
V5.4.0	March 2004	Publication
V5.5.0	June 2004	Publication