Source: **SA5 (Telecom Management)**

Title: **Rel-5 CR 32.644 Correction of OIDs for MOCs, packages, and attributes affected by the change of ura to uraList**

Document for: **Decision**

Agenda Item: **7.5.3**

Doc-1st-Level	Spec	CR	R	Phase	Subject	Cat	Vers.	Doc-2nd-Level	Workitem
SP-040132	32.644	011	-	Rel-5	Correction of OIDs of the MOCs, packages and attributes affected by the change from ura to uraList	F	5.3.0	S5-048192	OAM-NIM

3GPP TSG-SA5 (Telecom Management) **S5-048192**
Meeting #37, Malaga, SPAIN, 23 - 27 Feb 2004

CR-Form-v7

CHANGE REQUEST

⌘ **32.644** **CR** **011** ⌘ **rev** **-** ⌘ Current version: **5.3.0** ⌘

*For **HELP** on using this form, see bottom of this page or look at the pop-up text over the ⌘ symbols.*

Proposed change affects: UICC apps⌘ ☐ ME ☐ Radio Access Network ☒ Core Network ☐

Title:	⌘	Correction of OIDs of the MOCs, packages and attributes affected by the change from ura to uraList
Source:	⌘	SA5 (olaf.pollakowski@siemens.com)
Work item code:	⌘	OAM-NIM
Date:	⌘	27/02/2004
Category:	⌘	**F**
Release:	⌘	Rel-5

Use one of the following categories:
F *(correction)*
A *(corresponds to a correction in an earlier release)*
B *(addition of feature),*
C *(functional modification of feature)*
D *(editorial modification)*
Detailed explanations of the above categories can be found in 3GPP TR 21.900.

Use one of the following releases:

2	*(GSM Phase 2)*
R96	*(Release 1996)*
R97	*(Release 1997)*
R98	*(Release 1998)*
R99	*(Release 1999)*
Rel-4	*(Release 4)*
Rel-5	*(Release 5)*
Rel-6	*(Release 6)*

Reason for change:	⌘	The semantics of some MOCs, packages and attributres has been changed without changing the related OIDs
Summary of change:	⌘	New OIDs for the MOCs, packages and attributres affected by the change from ura to uraList are intriduced.
Consequences if not approved:	⌘	Some MOCs, packages and attributres have the same OID but different semantics in different spec versions resulting in interoperability problems.

Clauses affected:	⌘	5

Other specs affected:	⌘	Y	N		⌘
			X	Other core specifications	
			X	Test specifications	
			X	O&M Specifications	

Other comments: ⌘

5 GDMO Definitions

5.1 Managed Object Classes

5.1.1 rncFunction

```
rncFunction MANAGED OBJECT CLASS
  DERIVED FROM
      "3GPP TS 32.624 Release 5": managedFunction;
   CHARACTERIZED BY
      rncFunctionBasicPackage,
      rncFunctionHandoverPackage,
      "3GPP TS 32.111-4 Release 5": x721AlarmNotificationsPackage;
   CONDITIONAL PACKAGES
      "Rec. M.3100: 1995":createDeleteNotificationsPackage
          PRESENT IF
             "the objectCreation and the objectDeletion notifications defined in
              ITU-T Rec. X.721 are supported by an instance of this class.",
      "Rec. M.3100: 1995":attributeValueChangeNotificationPackage
          PRESENT IF
             "the attributeValueChange notification defined in ITU-T Rec. X.721
              is supported by an instance of this class.";
REGISTERED AS {ts32-644ObjectClass 1};
```

5.1.2 utranCell

Void.

~~utranCell MANAGED OBJECT CLASS~~
~~DERIVED FROM~~
~~"3GPP TS 32.624 Release 5": managedFunction;~~
~~CHARACTERIZED BY~~
~~utranCellBasicPackage,~~
~~utranCellHandoverPackage,~~
~~utranCellAssociationPackage,~~
~~"3GPP TS 32.111-4 Release 5": x721AlarmNotificationsPackage;~~
~~CONDITIONAL PACKAGES~~
~~"Rec. M.3100: 1995":createDeleteNotificationsPackage~~
~~PRESENT IF~~
~~"the objectCreation and the objectDeletion notifications defined in~~
~~ITU-T Rec. X.721 are supported by an instance of this class.",~~
~~"Rec. M.3100: 1995":attributeValueChangeNotificationPackage~~
~~PRESENT IF~~
~~"the attributeValueChange notification defined in ITU-T Rec. X.721~~
~~is supported by an instance of this class.",~~
~~"3GPP TS 32.674 Release 5": operationalStateAttributePackage~~
~~PRESENT IF~~
~~"instances of this MOC support the operationalState attribute.";~~
~~REGISTERED AS {ts32-644ObjectClass 2};~~

5.1.3 utranRelation

```
utranRelation MANAGED OBJECT CLASS
   DERIVED FROM
      "Recommendation X.721: 1992":top;
   CHARACTERIZED BY
      utranRelationBasicPackage,
      utranRelationAssociationPackage;
   CONDITIONAL PACKAGES
      "Rec. M.3100: 1995": createDeleteNotificationsPackage
          PRESENT IF
             "The objectCreation and the objectDeletion notifications defined in
              ITU-T Rec. X.721 are supported by an instance of this class.",
      "Rec. M.3100: 1995": attributeValueChangeNotificationPackage
          PRESENT IF
             "The attributeValueChange notification defined in ITU-T Rec. X.721
```

```
            is supported by an instance of this class.";
REGISTERED AS {ts32-644ObjectClass 3};
```

5.1.4 externalUtranCell

```
externalUtranCell MANAGED OBJECT CLASS
   DERIVED FROM
      "3GPP TS 32.624 Release 5": managedFunction;
   CHARACTERIZED BY
      externalUtranCellPackage;
   CONDITIONAL PACKAGES
      "Rec. M.3100: 1995":createDeleteNotificationsPackage
          PRESENT IF
             "the objectCreation and the objectDeletion notifications defined in
              ITU-T Rec. X.721 are supported by an instance of this class.",
      "Rec. M.3100: 1995":attributeValueChangeNotificationPackage
          PRESENT IF
             "the attributeValueChange notification defined in ITU-T Rec. X.721
              is supported by an instance of this class.";
REGISTERED AS {ts32-644ObjectClass 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 {ts32-644ObjectClass 5};
```

5.1.6 nodeBFunction

```
nodeBFunction MANAGED OBJECT CLASS
   DERIVED FROM
      "3GPP TS 32.624 Release 5": managedFunction;
   CHARACTERIZED BY
      nodeBFunctionBasicPackage,
      nodeBFunctionAssociationPackage,
      "3GPP TS 32.111-4 Release 5": x721AlarmNotificationsPackage;
   CONDITIONAL PACKAGES
      "Rec. M.3100: 1995":createDeleteNotificationsPackage
          PRESENT IF
             "the objectCreation and the objectDeletion notifications defined in
              ITU-T Rec. X.721 are supported by an instance of this class.",
      "Rec. M.3100: 1995":attributeValueChangeNotificationPackage
          PRESENT IF
             "the attributeValueChange notification defined in ITU-T Rec. X.721
              is supported by an instance of this class.";
REGISTERED AS {ts32-644ObjectClass 6};
```

5.1.7 utranCell_R54

```
utranCell MANAGED OBJECT CLASS
   DERIVED FROM
      "3GPP TS 32.624 Release 5": managedFunction;
   CHARACTERIZED BY
      utranCellBasicPackage,
      utranCellHandoverPackage_R54,
      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 {ts32-644ObjectClass 7};
```

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.

```
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,
      uraList                          GET-REPLACE;
REGISTERED AS {ts32-644Package 2};

utranCellHandoverPackageBehaviour BEHAVIOUR
DEFINED AS
   "This package contains all new attributes defined for UTRAN handover management.
    These attributes are introduced in R4.";
```

5.2.3 utranRelationBasicPackage

```
utranRelationBasicPackage PACKAGE
   BEHAVIOUR
      utranRelationBasicPackageBehaviour;
   ATTRIBUTES
      utranRelationId            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.";
```

5.2.13 utranCellHandoverPackage_R54

```
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,
      uraList                      GET-REPLACE;
REGISTERED AS {ts32-644Package 13};

utranCellHandoverPackageBehaviour 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

```
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 uraList

Void.

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

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

5.3.18 utranRelationId

```
utranRelationId ATTRIBUTE
   WITH ATTRIBUTE SYNTAX
      TS32-644TypeModule.GeneralObjectId;
   MATCHES FOR
      EQUALITY;
   BEHAVIOUR
      utranRelationIdBehaviour;
REGISTERED AS {ts32-644Attribute 18};

utranRelationIdBehaviour BEHAVIOUR
DEFINED AS
   "This attribute identifies an utranRelation object.";
```

5.3.19 relationType

Void.

5.3.20 adjacentCell

```
adjacentCell ATTRIBUTE
   WITH ATTRIBUTE SYNTAX
      TS32-644TypeModule.GeneralObjectPointer;
   MATCHES FOR
      EQUALITY;
   BEHAVIOUR
      adjacentCellBehaviour;
REGISTERED AS {ts32-644Attribute 20};

adjacentCellBehaviour BEHAVIOUR
DEFINED AS
   "Pointer to UTRAN cell or external UTRAN cell. Distinguished name of the corresponding object.";
```

5.3.21 externalUtranCellId

```
externalUtranCellId ATTRIBUTE
   WITH ATTRIBUTE SYNTAX
      TS32-644TypeModule.GeneralObjectId;
   MATCHES FOR
      EQUALITY;
   BEHAVIOUR
      adjacentCellBehaviour;
REGISTERED AS {ts32-644Attribute 21};

externalUtranCellIdBehaviour BEHAVIOUR
DEFINED AS
   "This attribute identifies an externalUtranCell object.";
```

5.3.22 rncFunctionId

```
rncFunctionId ATTRIBUTE
   WITH ATTRIBUTE SYNTAX
      TS32-644TypeModule.GeneralObjectId;
   MATCHES FOR
      EQUALITY;
   BEHAVIOUR
      rncFunctionIdBehaviour;
REGISTERED AS {ts32-644Attribute 22};

rncFunctionIdBehaviour BEHAVIOUR
DEFINED AS
   "This attribute names an instance of the 'rncFunction' object class.";
```

5.3.23 utranCellId

```
utranCellId ATTRIBUTE
   WITH ATTRIBUTE SYNTAX
      TS32-644TypeModule.GeneralObjectId;
   MATCHES FOR
      EQUALITY;
   BEHAVIOUR
      utranCellIdBehaviour;
REGISTERED AS {ts32-644Attribute 23};

utranCellIdBehaviour BEHAVIOUR
DEFINED AS
   "This attribute names an instance of the 'utranCell' object class.";
```

5.3.24 utranCell2iubLink

```
utranCell2iubLink ATTRIBUTE
   WITH ATTRIBUTE SYNTAX
      TS32-644TypeModule.GeneralObjectPointer;
   MATCHES FOR
      EQUALITY;
   BEHAVIOUR
      utranCell2iubLinkBehaviour;
REGISTERED AS {ts32-644Attribute 24};

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

5.3.25 iubLinkId

```
iubLinkId ATTRIBUTE
   WITH ATTRIBUTE SYNTAX
      TS32-644TypeModule.GeneralObjectId;
   MATCHES FOR
      EQUALITY;
   BEHAVIOUR
      iubLinkIdBehaviour;
REGISTERED AS {ts32-644Attribute 25};

iubLinkIdBehaviour BEHAVIOUR
DEFINED AS
   "This attribute names an instance of the 'iubLink' object class.";
```

5.3.26 iubLink2nodeBFunction

```
iubLink2nodeBFunction ATTRIBUTE
   WITH ATTRIBUTE SYNTAX
      TS32-644TypeModule.GeneralObjectPointer;
   MATCHES FOR
      EQUALITY;
   BEHAVIOUR
      iubLink2nodeBFunctionBehaviour;
REGISTERED AS {ts32-644Attribute 26};

iubLink2nodeBFunctionBehaviour BEHAVIOUR
DEFINED AS
   "This attribute points to the nodeBFunction instance which this iubLink instance
    connects directly to.";
```

5.3.27 iubLink2utranCell

```
iubLink2utranCell ATTRIBUTE
   WITH ATTRIBUTE SYNTAX
      TS32-644TypeModule.GeneralObjectPointerList;
   MATCHES FOR
      EQUALITY;
   BEHAVIOUR
      iubLink2utranCellBehaviour;
REGISTERED AS {ts32-644Attribute 27};
```

```
iubLink2utranCellBehaviour BEHAVIOUR
DEFINED AS
   "This attribute points from an iubLink instance to a list of utranCell instance";
```

5.3.28 nodeBFunctionId

```
nodeBFunctionId ATTRIBUTE
   WITH ATTRIBUTE SYNTAX
      TS32-644TypeModule.GeneralObjectId;
   MATCHES FOR
      EQUALITY;
   BEHAVIOUR
      nodeBFunctionIdBehaviour;
REGISTERED AS {ts32-644Attribute 28};

nodeBFunctionIdBehaviour BEHAVIOUR
DEFINED AS
   "This attribute names an instance of the 'nodeBFunction' object class.";
```

5.3.29 nodeB2iubLink

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

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

5.3.30 uraList

```
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)";
```

5.4 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

UraList ::= SET OF INTEGER


END -- of TS32-644TypeModule
```

End of Document