Source:	**SA5 (Telecom Management)**
Title:	**Rel-5 CR 32.654 (CM GERAN network resources IRP CMIP SS)**
Document for:	**Decision**
Agenda Item:	**7.5.3**

Doc-1st-	Spec	CR	R	Phas	Subject	Cat	Ver	Doc-2nd-	Workitem
SP-040257	32.654	009	-	Rel-5	Correction of the type of the plmnPermittd attribute	F	5.3.0	S5-048430	OAM-NIM

CR-Form-v7

CHANGE REQUEST

⌘ **32.654** CR **009** ⌘ **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 [X] Core Network [ ]

Title:	⌘	Correction of the type of the plmnPermittd attribute
Source:	⌘	SA5 (olaf.pollakowski@siemens.com)
Work item code: ⌘	OAM-NIM	**Date:** ⌘ 14/05/2004
Category:	⌘ **F**	**Release:** ⌘ Rel-5

Use <u>one</u> 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 <u>one</u> 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 type of the attribute plmnPermitted is currently as defined in GSM 12.20 (SET OF INTEGER). However, the type according the the description in TS 45.008 is an INTEGER.
Summary of change: ⌘	Change the type of plmnPermitted to INTEGER.
Consequences if not approved: ⌘	The CMIP SS 32.654 would not be consistent with the IS 32.652.

Clauses affected: ⌘	4.2.1, 4.2.2.3, 5, 6

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

Other comments: ⌘	

Change in Clause 4.2.1

4.2.1 Mapping of Information Object Classes

The following table maps the information object classes defined in the GERAN Network Resource Model onto the equivalent MOCs of the CMIP Solution Set.

Table 4.1: Mapping of MOCs

IS IOC	CMIP SS MOC
BssFunction	bssFunction
BtsSiteMgr	btsSiteMgr
GsmCell	gsmCellR54
GsmRelation	gsmRelation
ExternalGsmCell	externalGsmCell
ExternalBssFunction	externalBssFunction

Change in Clause 4.2.1

Change in Clause 4.2.2.3

4.2.2.3 Attribute Mapping of the IOC *GsmCell*

Table 4.4: Attribute mapping of the IOC *GsmCell*

IS Attribute	CMIP SS Attribute	Qualifier
gsmCellId	gsmCellId	M
userLabel	userLabel (ITU-T Rec. M.3100 [9])	M
cellIdentity		
lac	cellGlobalIdentity (GSM 12.20 [10])	M
mcc		
mnc		
cellAllocation	cellAllocation (GSM 12.20 [10])	M
ncc	bsIdentityCode.ncc (GSM 12.20 [10])	M
bcc	bsIdentityCode.bcc (GSM 12.20 [10])	M
rac	rac (3GPP TS 32.644 [12])	O
racc	racc	O
tsc	tsc (GSM 12.20 [10])	M
rxLevAccessMin	rxLevAccessMin (GSM 12.20 [10])	M
msTxPwrMaxCCH	msTxPwrMaxCCH (GSM 12.20 [10])	M
hoppingSequenceNumber	hoppingSequenceNumber (GSM 12.20 [10])	M
plmnPermitted	plmnPermitted (GSM 12.20 [10])	M

Change in Clause 4.2.2.3

Change in Clause 5 & 6

5 GDMO Definitions

5.1 Managed Object Classes

5.1.1 bssFunction

```
bssFunction MANAGED OBJECT CLASS
    DERIVED FROM
        "3GPP TS 32.624 Release 5": managedFunction;
    CHARACTERIZED BY
        bssFunctionBasicPackage,
        "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 {ts32-654ObjectClass 1};
```

5.1.2 btsSiteMgr

```
btsSiteMgr MANAGED OBJECT CLASS
    DERIVED FROM
        "3GPP TS 32.624 Release 5": managedFunction;
    CHARACTERIZED BY
        btsSiteMgrBasicPackage,
        "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 operationalState attribute.",
        btsSiteMgrGeoPositionPackage
            PRESENT IF
              "the attributes defined in this package are supported by an instance of this class.";
REGISTERED AS {ts32-654ObjectClass 2};
```

5.1.3 gsmCell

```
gsmCell MANAGED OBJECT CLASS
    DERIVED FROM
        "3GPP TS 32.624 Release 5": managedFunction;
CHARACTERIZED BY
        gsmCellBasicPackage,
        gsmCellMandatoryPackage,
        "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.",
        gsmCellOptionalPackage PRESENT IF
        "the attributes defined in this package are supported by an instance of this class.";
REGISTERED AS {ts32-654ObjectClass 3};
```

5.1.4   externalGsmCell

```
externalGsmCell MANAGED OBJECT CLASS
   DERIVED FROM
      "3GPP TS 32.624 Release 5": managedFunction;
   CHARACTERIZED BY
      externalGsmCellBasicPackage,
      externalGsmCellMandatoryPackage;
   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.",
      gsmCellOptionalPackage
         PRESENT IF
            "the attributes defined in this package are supported by an instance of this class.";
REGISTERED AS {ts32-654ObjectClass 4};
```

5.1.5   gsmRelation

```
gsmRelation MANAGED OBJECT CLASS
   DERIVED FROM
      "Recommendation X.721: 1992":top;
   CHARACTERIZED BY
      gsmRelationBasicPackage;
   CONDITIONAL PACKAGES
      gsmRelationOptionalPackage
         PRESENT IF
            "the attributes defined in this package are supported by an instance of this class.",
      "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
             are supported by an instance of this class.";
REGISTERED AS {ts32-654ObjectClass 5};
```

5.1.6   externalBssFunction

```
externalBssFunction MANAGED OBJECT CLASS
   DERIVED FROM
      "3GPP TS 32.624 Release 5": managedFunction;
   CHARACTERIZED BY
      externalBssFunctionBasicPackage;
   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 {ts32-654ObjectClass 6};
```

5.1.7   gsmCellR54

```
gsmCellR54 MANAGED OBJECT CLASS
   DERIVED FROM
      "3GPP TS 32.624 Release 5": managedFunction;
CHARACTERIZED BY
      gsmCellBasicPackage,
      gsmCellMandatoryPackageR54,
      "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.",
    gsmCellOptionalPackage PRESENT IF
    "the attributes defined in this package are supported by an instance of this class.";
REGISTERED AS {ts32-654ObjectClass 7};
```

5.2 Packages

5.2.1 bssFunctionBasicPackage

```
bssFunctionBasicPackage PACKAGE
    BEHAVIOUR
        bssFunctionBasicPackageBehaviour;
    ATTRIBUTES
        bssFunctionId   GET;
REGISTERED AS {ts32-654Package 1};

bssFunctionBasicPackageBehaviour BEHAVIOUR
DEFINED AS
    "The Managed Object Class bssFunction represents BSS functionality.";
```

5.2.2 btsSiteMgrBasicPackage

```
btsSiteMgrBasicPackage PACKAGE
    BEHAVIOUR
        btsSiteMgrBasicPackageBehaviour;
    ATTRIBUTES
        btsSiteMgrId   GET;
REGISTERED AS {ts32-654Package 2};

btsSiteMgrBasicPackageBehaviour BEHAVIOUR
DEFINED AS
    "The 'BtsSiteMgr' managed object contains site specific information for a BTS site.";
```

5.2.3 btsSiteMgrGeoPositionPackage

```
btsSiteMgrGeoPositionPackage PACKAGE
    BEHAVIOUR
        btsSiteMgrGeoPositionPackageBehaviour;
    ATTRIBUTES
        longitude   GET-REPLACE,
        latitude    GET-REPLACE;
REGISTERED AS {ts32-654Package 3};

btsSiteMgrGeoPositionPackageBehaviour BEHAVIOUR
DEFINED AS
    "This package contains the attributes describing the geographic position of a BTS site.";
```

5.2.4 gsmCellBasicPackage

```
gsmCellBasicPackage PACKAGE
    BEHAVIOUR
        gsmCellBasicPackageBehaviour;
    ATTRIBUTES
        gsmCellId   GET;
REGISTERED AS {ts32-654Package 4};

gsmCellBasicPackageBehaviour BEHAVIOUR
DEFINED AS
    "The managed object class gsmCell represents the GSM radio cell.";
```

5.2.5 gsmCellMandatoryPackage

```
gsmCellMandatoryPackage PACKAGE
    BEHAVIOUR
```

```
      gsmCellMandatoryPackageBehaviour;
   ATTRIBUTES
      "ETS 300 622: JUNE 1996 (GSM 12.20 VERSION 4.2.1)": cellAllocation         GET-REPLACE,
      "ETS 300 622: JUNE 1996 (GSM 12.20 VERSION 4.2.1)": bsIdentityCode          GET-REPLACE,
      "ETS 300 622: JUNE 1996 (GSM 12.20 VERSION 4.2.1)": cellGlobalIdentity      GET-REPLACE,
      "ETS 300 622: JUNE 1996 (GSM 12.20 VERSION 4.2.1)": tsc                     GET-REPLACE,
      "ETS 300 622: JUNE 1996 (GSM 12.20 VERSION 4.2.1)": rxLevAccessMin          GET-REPLACE,
      "ETS 300 622: JUNE 1996 (GSM 12.20 VERSION 4.2.1)": msTxPwrMaxCCH           GET-REPLACE,
      "ETS 300 622: JUNE 1996 (GSM 12.20 VERSION 4.2.1)": hoppingSequenceNumber   GET-REPLACE,
      "ETS 300 622: JUNE 1996 (GSM 12.20 VERSION 4.2.1)": plmnPermitted           GET-REPLACE;
REGISTERED AS {ts32-654Package 5};

gsmCellMandatoryPackageBehaviour BEHAVIOUR
DEFINED AS
   "This package contains the elementary mandatory attributes of a gsmCell.";
```

5.2.6   gsmCellOptionalPackage

```
gsmCellOptionalPackage PACKAGE
   BEHAVIOUR
      gsmCellOptionalPackageBehaviour;
   ATTRIBUTES
      "3GPP TS 32.644 Release 5": rac   GET-REPLACE,
      racc                              GET-REPLACE;
REGISTERED AS {ts32-654Package 6};

gsmCellOptionalPackageBehaviour BEHAVIOUR
DEFINED AS
   "This package contains the optional GPRS attributes of a gsmCell.";
```

5.2.7   externalGsmCellBasicPackage

```
externalGsmCellBasicPackage PACKAGE
   BEHAVIOUR
      externalGsmCellBasicPackageBehaviour;
   ATTRIBUTES
      externalGsmCellId   GET;
REGISTERED AS {ts32-654Package 7};

externalGsmCellBasicPackageBehaviour BEHAVIOUR
DEFINED AS
   "This Managed Object Class represents a radio cell controlled by another IRPAgent. It is
    a necessary attribute for inter-system handover. This MOC is a subreplication of a
    MOC in another NEM.";
```

5.2.8   externalGsmCellMandatoryPackage

```
externalGsmCellMandatoryPackage PACKAGE
   BEHAVIOUR
      externalGsmCellMandatoryPackageBehaviour;
   ATTRIBUTES
      "ETS 300 622: JUNE 1996 (GSM 12.20 VERSION 4.2.1)": bsIdentityCode       GET-REPLACE,
      "ETS 300 622: JUNE 1996 (GSM 12.20 VERSION 4.2.1)": cellGlobalIdentity   GET-REPLACE,
      "ETS 300 622: JUNE 1996 (GSM 12.20 VERSION 4.2.1)": bcchFrequency        GET-REPLACE;
REGISTERED AS {ts32-654Package 8};

externalGsmCellMandatoryPackageBehaviour BEHAVIOUR
DEFINED AS
   "This package contains the elementary mandatory attributes of a externalGsmCell.";
```

5.2.9   gsmRelationBasicPackage

```
gsmRelationBasicPackage PACKAGE
   BEHAVIOUR
      gsmRelationBasicPackageBehaviour;
   ATTRIBUTES
      gsmRelationId                            GET,
      "3GPP TS 32.644 Release 5": adjacentCell   GET-REPLACE;
REGISTERED AS {ts32-654Package 9};

gsmRelationBasicPackageBehaviour BEHAVIOUR
DEFINED AS
   "The 'GsmRelation' managed object contains radio network related parameters for the relation
```

to the 'GsmCell' or 'ExternalGsmCell' managed object. Note: In handover relation terms, the cell containing the GSM Relation object is the source cell for the handover. The cell referred to in the GSM 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.";

5.2.10   gsmRelationOptionalPackage

```
gsmRelationOptionalPackage PACKAGE
    BEHAVIOUR
        gsmRelationOptionalPackageBehaviour;
    ATTRIBUTES
        "ETS 300 622: JUNE 1996 (GSM 12.20 VERSION 4.2.1)": bsIdentityCode  GET-REPLACE,
        "3GPP TS 32.644 Release 5": lac                                     GET-REPLACE,
        "ETS 300 622: JUNE 1996 (GSM 12.20 VERSION 4.2.1)": bcchFrequency   GET-REPLACE;
REGISTERED AS {ts32-654Package 10};

gsmRelationOptionalPackageBehaviour BEHAVIOUR
DEFINED AS
    "This package contains the optional attributes of a gsmRelation.";
```

5.2.11   ExternalBssFunctionBasicPackage

```
externalBssFunctionBasicPackage PACKAGE
    BEHAVIOUR
        externalBssFunctionBasicPackageBehaviour;
    ATTRIBUTES
        externalBssFunctionId   GET;
REGISTERED AS {ts32-654Package 11};

externalBssFunctionBasicPackageBehaviour BEHAVIOUR
DEFINED AS
    "The Managed Object Class externalBssFunction represents external BSS functionality.";
```

5.2.12   gsmCellMandatoryPackageR54

```
gsmCellMandatoryPackageR54 PACKAGE
    BEHAVIOUR
        gsmCellMandatoryPackageR54Behaviour;
    ATTRIBUTES
        "ETS 300 622: JUNE 1996 (GSM 12.20 VERSION 4.2.1)": cellAllocation         GET-REPLACE,
        "ETS 300 622: JUNE 1996 (GSM 12.20 VERSION 4.2.1)": bsIdentityCode         GET-REPLACE,
        "ETS 300 622: JUNE 1996 (GSM 12.20 VERSION 4.2.1)": cellGlobalIdentity     GET-REPLACE,
        "ETS 300 622: JUNE 1996 (GSM 12.20 VERSION 4.2.1)": tsc                    GET-REPLACE,
        "ETS 300 622: JUNE 1996 (GSM 12.20 VERSION 4.2.1)": rxLevAccessMin         GET-REPLACE,
        "ETS 300 622: JUNE 1996 (GSM 12.20 VERSION 4.2.1)": msTxPwrMaxCCH          GET-REPLACE,
        "ETS 300 622: JUNE 1996 (GSM 12.20 VERSION 4.2.1)": hoppingSequenceNumber  GET-REPLACE,
        plmnPermitted                                                              GET-REPLACE;
REGISTERED AS {ts32-654Package 12};

gsmCellMandatoryPackageR54Behaviour BEHAVIOUR
DEFINED AS
    "This package contains the elementary mandatory attributes of a gsmCell.";
```

5.3   Attributes

5.3.1   bssFunctionId

```
bssFunctionId ATTRIBUTE
    WITH ATTRIBUTE SYNTAX
        TS32-654TypeModule.GeneralObjectId;
    MATCHES FOR
        EQUALITY;
    BEHAVIOUR
        bssFunctionIdBehaviour;
REGISTERED AS {ts32-654Attribute 1};

bssFunctionIdBehaviour BEHAVIOUR
DEFINED AS
    "This attribute identifies a bssFunction object.";
```

5.3.2   btsSiteMgrId

```
btsSiteMgrId ATTRIBUTE
    WITH ATTRIBUTE SYNTAX
        TS32-654TypeModule.GeneralObjectId;
    MATCHES FOR
        EQUALITY;
    BEHAVIOUR
        btsSiteMgrIdBehaviour;
REGISTERED AS {ts32-654Attribute 2};

btsSiteMgrIdBehaviour BEHAVIOUR
DEFINED AS
    "This attribute identifies a btsSiteMgr object.";
```

5.3.3   longitude

```
longitude ATTRIBUTE
    WITH ATTRIBUTE SYNTAX
        TS32-654TypeModule.Longitude;
    MATCHES FOR
        EQUALITY;
    BEHAVIOUR
        longitudeBehaviour;
REGISTERED AS {ts32-654Attribute 3};

longitudeBehaviour BEHAVIOUR
DEFINED AS
    "Used for geographical positioning of the sitemanager.";
```

5.3.4   latitude

```
latitude ATTRIBUTE
    WITH ATTRIBUTE SYNTAX
        TS32-654TypeModule.Latitude;
    MATCHES FOR
        EQUALITY;
    BEHAVIOUR
        latitudeBehaviour;
REGISTERED AS {ts32-654Attribute 4};

latitudeBehaviour BEHAVIOUR
DEFINED AS
    "Used for geographical positioning of the sitemanager.";
```

5.3.5   gsmCellId

```
gsmCellId ATTRIBUTE
    WITH ATTRIBUTE SYNTAX
        TS32-654TypeModule.GeneralObjectId;
    MATCHES FOR
        EQUALITY;
    BEHAVIOUR
        gsmCellIdBehaviour;
REGISTERED AS {ts32-654Attribute 5};

gsmCellIdBehaviour BEHAVIOUR
DEFINED AS
    "Cell Identity (Ref GSM 03.03).";
```

5.3.6   racc

```
racc ATTRIBUTE
    WITH ATTRIBUTE SYNTAX
        TS32-654TypeModule.Racc;
    MATCHES FOR
        EQUALITY;
    BEHAVIOUR
        raccBehaviour;
REGISTERED AS {ts32-654Attribute 7};

raccBehaviour BEHAVIOUR
```

```
DEFINED AS
    "Routing Area Colour Code, RACC.";
```

5.3.7   gsmRelationId

```
gsmRelationId ATTRIBUTE
    WITH ATTRIBUTE SYNTAX
        TS32-654TypeModule.GeneralObjectId;
    MATCHES FOR
        EQUALITY;
    BEHAVIOUR
        gsmRelationIdBehaviour;
REGISTERED AS {ts32-654Attribute 8};

gsmRelationIdBehaviour BEHAVIOUR
DEFINED AS
    "This attribute identifies a gsmRelation object.";
```

5.3.8   externalGsmCellId

```
externalGsmCellId ATTRIBUTE
    WITH ATTRIBUTE SYNTAX
        TS32-654TypeModule.GeneralObjectId;
    MATCHES FOR
        EQUALITY;
    BEHAVIOUR
        externalGsmCellIdBehaviour;
REGISTERED AS {ts32-654Attribute 9};

externalGsmCellIdBehaviour BEHAVIOUR
DEFINED AS
    "This attribute identifies a externalGsmCell object.";
```

5.3.9   externalBssFunctionId

```
externalBssFunctionId ATTRIBUTE
    WITH ATTRIBUTE SYNTAX
        TS32-654TypeModule.GeneralObjectId;
    MATCHES FOR
        EQUALITY;
    BEHAVIOUR
        externalBssFunctionIdBehaviour;
REGISTERED AS {ts32-654Attribute 10};

externalBssFunctionIdBehaviour BEHAVIOUR
DEFINED AS
    "This attribute identifies an externalBssFunction object.";
```

5.3.10   plmnPermitted

```
plmnPermitted ATTRIBUTE
    WITH ATTRIBUTE SYNTAX
        TS32-654TypeModule.PlmnPermitted;
    MATCHES FOR
        EQUALITY;
    BEHAVIOUR
        plmnPermittedBehaviour;
REGISTERED AS {ts32-654Attribute 11};

plmnPermittedBehaviour BEHAVIOUR
DEFINED AS
    "Network Color Code permitted as defined by the NCC_PERMITTED parameter
     specified in 3GPP TS 45.008";
```

5.4   Name Binding

5.4.1   bssFunction - managedElement

```
bssFunction-managedElement NAME BINDING
    SUBORDINATE OBJECT CLASS
```

```
      bssFunction;
   NAMED BY SUPERIOR OBJECT CLASS
      "3GPP TS 32.624 Release 5": managedElement;
   WITH ATTRIBUTE
      bssFunctionId;
   BEHAVIOUR
      bssFunction-managedElementBehaviour;
   CREATE
      WITH-REFERENCE-OBJECT, WITH-AUTOMATIC-INSTANCE-NAMING;
   DELETE
      ONLY-IF-NO-CONTAINED-OBJECTS;
REGISTERED AS {ts32-654NameBinding 1};

bssFunction-managedElementBehaviour BEHAVIOUR
DEFINED AS
   "The name binding represents a relationship in which a managedElement contains
    and controls a bssFunction. When automatic instance naming is used, the choice
    of name bindings is left as a local matter.";
```

5.4.2   btsSiteMgr - bssFunction

```
btsSiteMgr-bssFunction NAME BINDING
   SUBORDINATE OBJECT CLASS
      btsSiteMgr;
   NAMED BY SUPERIOR OBJECT CLASS
      bssFunction;
   WITH ATTRIBUTE
      btsSiteMgrId;
   BEHAVIOUR
      btsSiteMgr-bssFunctionBehaviour;
   CREATE
      WITH-REFERENCE-OBJECT, WITH-AUTOMATIC-INSTANCE-NAMING;
   DELETE
      ONLY-IF-NO-CONTAINED-OBJECTS;
REGISTERED AS {ts32-654NameBinding 2};

btsSiteMgr-bssFunctionBehaviour BEHAVIOUR
DEFINED AS
   "The name binding represents a relationship in which a bssFunction contains
    and controls a btsSiteMgr. When automatic instance naming is used, the choice
    of name bindings is left as a local matter.";
```

5.4.3   gsmCell - btsSiteMgr

```
gsmCell-btsSiteMgr NAME BINDING
   SUBORDINATE OBJECT CLASS
      gsmCell;
   NAMED BY SUPERIOR OBJECT CLASS
      btsSiteMgr;
   WITH ATTRIBUTE
      gsmCellId;
   BEHAVIOUR
      gsmCell-btsSiteMgrBehaviour;
   CREATE
      WITH-REFERENCE-OBJECT, WITH-AUTOMATIC-INSTANCE-NAMING;
   DELETE
      ONLY-IF-NO-CONTAINED-OBJECTS;
REGISTERED AS {ts32-654NameBinding 3};

gsmCell-btsSiteMgrBehaviour BEHAVIOUR
DEFINED AS
   "The name binding represents a relationship in which a btsSiteMgr contains
    and controls a gsmCell. When automatic instance naming is used, the choice
    of name bindings is left as a local matter.";
```

5.4.4   gsmRelation - gsmCell

```
gsmRelation-gsmCell NAME BINDING
   SUBORDINATE OBJECT CLASS
      gsmRelation;
   NAMED BY SUPERIOR OBJECT CLASS
      gsmCell;
   WITH ATTRIBUTE
      gsmRelationId;
```

```
   BEHAVIOUR
      gsmRelation-gsmCellBehaviour;
   CREATE
      WITH-REFERENCE-OBJECT, WITH-AUTOMATIC-INSTANCE-NAMING;
   DELETE
      ONLY-IF-NO-CONTAINED-OBJECTS;
REGISTERED AS {ts32-654NameBinding 4};

gsmRelation-gsmCellBehaviour BEHAVIOUR
DEFINED AS
   "The name binding represents a relationship in which a gsmCell contains
    and controls a gsmRelation. When automatic instance naming is used, the choice
    of name bindings is left as a local matter.";
```

5.4.5   externalGsmCell - subNetwork

```
externalGsmCell-subNetwork NAME BINDING
   SUBORDINATE OBJECT CLASS
      externalGsmCell;
   NAMED BY SUPERIOR OBJECT CLASS
      "3GPP TS 32.624 Release 5": subNetwork;
   WITH ATTRIBUTE
      externalGsmCellId;
   BEHAVIOUR
      externalGsmCell-subNetworkBehaviour;
   CREATE
      WITH-REFERENCE-OBJECT, WITH-AUTOMATIC-INSTANCE-NAMING;
   DELETE
      ONLY-IF-NO-CONTAINED-OBJECTS;
REGISTERED AS {ts32-654NameBinding 5};

externalGsmCell-subNetworkBehaviour BEHAVIOUR
DEFINED AS
   "The name binding represents a relationship in which a subNetwork contains
    and controls an externalGsmCell. When automatic instance naming is used, the choice
    of name bindings is left as a local matter.";
```

5.4.6   externalBssFunction - subNetwork

```
externalBssFunction-subNetwork NAME BINDING
   SUBORDINATE OBJECT CLASS
      externalBssFunction;
   NAMED BY SUPERIOR OBJECT CLASS
      "3GPP TS 32.624 Release 5": subNetwork;
   WITH ATTRIBUTE
      externalBssFunctionId;
   BEHAVIOUR
      externalBssFunction-subNetworkBehaviour;
   CREATE
      WITH-REFERENCE-OBJECT, WITH-AUTOMATIC-INSTANCE-NAMING;
   DELETE
      ONLY-IF-NO-CONTAINED-OBJECTS;
REGISTERED AS {ts32-654NameBinding 6};

externalBssFunction-subNetworkBehaviour BEHAVIOUR
DEFINED AS
   "The name binding represents a relationship in which a subNetwork contains
    and controls an externalBssFunction. When automatic instance naming is used, the choice
    of name bindings is left as a local matter.";
```

5.4.7   gsmCellR54 - btsSiteMgr

```
gsmCellR54-btsSiteMgr NAME BINDING
   SUBORDINATE OBJECT CLASS
      gsmCellR54;
   NAMED BY SUPERIOR OBJECT CLASS
      btsSiteMgr;
   WITH ATTRIBUTE
      gsmCellId;
   BEHAVIOUR
      gsmCellR54-btsSiteMgrBehaviour;
   CREATE
      WITH-REFERENCE-OBJECT, WITH-AUTOMATIC-INSTANCE-NAMING;
   DELETE
```

```
      ONLY-IF-NO-CONTAINED-OBJECTS;
REGISTERED AS {ts32-654NameBinding 7};


gsmCellR54-btsSiteMgrBehaviour BEHAVIOUR
DEFINED AS
    "The name binding represents a relationship in which a btsSiteMgr contains
     and controls a gsmCellR54. When automatic instance naming is used, the choice
     of name bindings is left as a local matter.";
```

5.4.8   gsmRelation - gsmCellR54

```
gsmRelation-gsmCellR54 NAME BINDING
    SUBORDINATE OBJECT CLASS
        gsmRelation;
    NAMED BY SUPERIOR OBJECT CLASS
        gsmCellR54;
    WITH ATTRIBUTE
        gsmRelationId;
    BEHAVIOUR
        gsmRelation-gsmCellR54Behaviour;
    CREATE
        WITH-REFERENCE-OBJECT, WITH-AUTOMATIC-INSTANCE-NAMING;
    DELETE
        ONLY-IF-NO-CONTAINED-OBJECTS;
REGISTERED AS {ts32-654NameBinding 8};


gsmRelation-gsmCellR54Behaviour BEHAVIOUR
DEFINED AS
    "The name binding represents a relationship in which a gsmCellR54 contains
     and controls a gsmRelation. When automatic instance naming is used, the choice
     of name bindings is left as a local matter.";
```

6 ASN.1 Definitions

```
TS32-654TypeModule {ccitt(0) identified-organization(4) etsi(0) mobileDomain(0)
umts-Operation-Maintenance(3) ts-32-654(654) informationModel(0) asn1Module(2) version1(1)}


DEFINITIONS IMPLICIT TAGS ::=
BEGIN

--EXPORTS everything

IMPORTS

GeneralObjectId
    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)}

Rac
    FROM TS32-644TypeModule {ccitt(0) identified-organization(4) etsi(0) mobileDomain(0)
    umts-Operation-Maintenance(3) ts-32-644(644) informationModel(0) asn1Module(2) version1(1)};


-- 3GPP TS 32.654 related Object Identifiers

baseNodeUMTS            OBJECT IDENTIFIER ::= {itu-t(0) identified-organization(4) etsi(0)
                                              mobileDomain(0) umts-Operation-Maintenance(3)}

ts32-654               OBJECT IDENTIFIER ::= {baseNodeUMTS ts32-654(654)}
ts32-654InfoModel      OBJECT IDENTIFIER ::= {ts32-654 informationModel(0)}

ts32-654ObjectClass    OBJECT IDENTIFIER ::= {ts32-654InfoModel managedObjectClass(3)}
ts32-654Package        OBJECT IDENTIFIER ::= {ts32-654InfoModel package(4)}
ts32-654Parameter      OBJECT IDENTIFIER ::= {ts32-654InfoModel parameter(5)}
ts32-654NameBinding    OBJECT IDENTIFIER ::= {ts32-654InfoModel nameBinding(6)}
ts32-654Attribute      OBJECT IDENTIFIER ::= {ts32-654InfoModel attribute(7)}
ts32-654Action         OBJECT IDENTIFIER ::= {ts32-654InfoModel action(9)}
ts32-654Notification   OBJECT IDENTIFIER ::= {ts32-654InfoModel notification(10)}


-- Start of 3GPP SA5 own definitions

Longitude ::= INTEGER

Latitude ::= INTEGER

PlmnPermitted ::= INTEGER

Racc ::= INTEGER

END -- of TS32-654TypeModule
```

Change in Clause 5 & 6

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 2001	S_13	SP-010477	002	--	Addition of mcc and mnc in the object model of GERAN	4.0.0	4.1.0
Dec 2002	S_18	SP-020749	003	--	Alignment of the CMIP SS with the Rel-5 version of the IS in 32.652	4.1.0	5.0.0
Jun 2003	S_20	SP-030283	005	--	Removal of relationType	5.0.0	5.1.0
Jun 2003	S_20	SP-030286	006	--	Alignment of object class names to externalGsmCell - Alignment with 32.624	5.0.0	5.1.0
Sep 2003	S_21	SP-030418	007	--	Inclusion of ExternalBssFunction - Alignment with 32.652	5.1.0	5.2.0
Dec 2003	S_22	SP-030642	008	--	Add notifications to functional objects - Align with 32.652 (IS)	5.2.0	5.3.0