TSGS#13(01)0477

Technical Specification Group Services and System Aspects Meeting #13, Beijing, China, 24-27 September 2001

Source: SA5

Title: Rel-4 CR32.652 & 32.654 on Adding mcc and mnc in the

object model of GERAN (NRM)

Document for: Approval

Agenda Item: 7.5.3

Doc-1st- Level	Doc-2nd- Level	Spec	CR	Rev	Phase	Subject	Cat		Version -New	Workitem
Level	Level							n Current		
SP-010477	S5-010578	32.652	001			Addition of mcc and mnc in the object model of GERAN	F	4.0.0	4.1.0	OAM-CM
SP-010477	S5-010579	32.654	002			Addition of mcc and mnc in the object model of GERAN	F	4.0.0	4.1.0	OAM-CM

CHANGE REQUEST											
*	32.652	CR	001	ж	ev	-	# (Current ve	rsion:	4.0.0	¥
For <u>HEL</u>	P on using	this form, se	e bottom of	this pag	ge or l	look a	t the	pop-up tex	kt ovei	r the ₩ sy	mbols.
Proposed ch	nange affec	ets: # (U)SIM 🔃 I	ME/UE		Radio	Acc	ess Netwo	rk X	Core No	etwork
Title:	₩ <mark>Ad</mark>	dition of mcd	and mnc in	the ob	ject m	odel	of GE	RAN			
Source:	≇ <mark>SA</mark>	5									
Work item co	ode: # OA	AM-CM						Date: 8	₩ 07	/09/2001	
Category:	Deta	B (addition of	nds to a correct of feature), I modification nodification) ons of the abo	ction in a	re)			Release: 8 Use <u>one</u> 6 2 R96 R97 R98 R99 REL-4 REL-5	of the fo (GSI (Rela (Rela (Rela (Rela (Rela	EL-4 collowing rel M Phase 2) ease 1996) ease 1997) ease 1998) ease 1999) ease 4) ease 5)	
Reason for o	change: Ж		mnc are reently missin	•		-			These	e two attri	ibutes
Summary of	change:	adding th External	e attributes SsmCell.	of mc	c and	l mno	into	the MOC	s Gsr	mCell and	d
Consequence not approve		Cannot ide	entify GSM C	Cell.							
Clauses affe	cted: 第	6.3.3 and	5.3.5								
Other specs affected:	**	Test sp	ore specifica ecifications pecifications		¥	32.6	RBA (0	GERAN No Solution S GERAN No Jution Set)	et); <mark>CI</mark> etwork	R not avai	lable yet,
Other comm	ents: #		"Parent" CF		oroved	d, the	"Child	d" CR32.6	54-00	1_S5-010	579

How to create CRs using this form:

Comprehensive information and tips about how to create CRs can be found at: http://www.3gpp.org/3G Specs/CRs.htm. Below is a brief summary:

- 1) Fill out the above form. The symbols above marked **%** contain pop-up help information about the field that they are closest to.
- 2) Obtain the latest version for the release of the specification to which the change is proposed. Use the MS Word "revision marks" feature (also known as "track changes") when making the changes. All 3GPP specifications can be downloaded from the 3GPP server under ftp://ftp.3gpp.org/specs/ For the latest version, look for the directory name with the latest date e.g. 2001-03 contains the specifications resulting from the March 2001 TSG meetings.

3)	With "track changes" of just in front of the clau which are not relevant	disabled, paste the eruse containing the first to the change reques	ntire CR form (use CTRI t piece of changed text. st.	A to select it) into the specif Delete those parts of the sp	ication ecification

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6.3.3 MOC GsmCell

This managed object class represents the GSM radio cell. The applicability of instantiation of this class is depending on the ME type. It may only be instantiated under ME of type BSC.

Table 6: Attributes of GsmCell

Name	Qualifier	Description
gsmCellId	READ-ONLY, M	An attribute whose 'name+value' can be used as an RDN when naming an
		instance of this object class. This RDN uniquely identifies the object instance within
		the scope of its containing (parent) object instance.
userLabel	READ-WRITE,	A user friendly (and user assigned) name of
	M	the associated object.
cellIdentity	READ-WRITE,M	Cell Identity (Ref GSM 03.03)
cellAllocation	READ-WRITE,M	This attribute defines the set of radio frequencies allocated and available to a cell,
		the first element sets the BCCH frequency, Ref GSM 12.20
ncc	READ-WRITE,M	Network Colour Code, NCC (part of BSIC). Ref GSM 04.08
bcc	READ-WRITE,M	Base station colour code, BCC (part of BSIC). Ref GSM 04.08
lac	READ-WRITE,M	Location Area Code, LAC . (Ref GSM 04.08)
mcc	READ-WRITE,M	Mobile Country Code (Ref GSM 04.08)
mnc	READ-WRITE,M	Mobile Network Code (Ref GSM 04.08)
rac	READ-WRITE,O	Routing Area Code, RAC.
		See Note for the optional condition.
racc	READ-WRITE,O	Routing Area Colour Code, RACC.
		See Note for the optional condition.
tsc	READ-WRITE,M	Training Sequence Code, an attribute of the class channel in GSM 12.20
rxLevAccessMin	READ-WRITE,M	Minimum Access Level, rxLevAccessMin is an attribute of the class bts in GSM
		12.20. Attribute description reference GSM 05.08 (RXLEV_ACCESS_MIN)
msTxPwrMaxCCH	READ-WRITE,M	Maximum Transmission Power for a Mobile Station on a CCH, mSTxPwrMaxCCH
		is an attribute of the class bts in GSM 12.20. Attribute description reference GSM
		05.08 (MS_TXPWR_MAX_CCH)
hoppingSequenc	READ-WRITE,M	HoppingSequenceNumber is an attribute of the class frequencyHoppingSystem
eNumber		(GSM 12.20). Attribute description reference GSM 05.02
plmnPermitted	READ-WRITE,M	Network Colour Code Permitted, plmnPermitted which is an attribute of the class
		bts in GSM 12.20. Attribute description reference GSM 05.08 (NCC_PERMITTED)

Note: This attribute shall be included if the cell is a GPRS cell.

Table 7: Notifications of GsmCell

Name	Qualifier	Notes
notifyAckStateChanged	See Alarm IRP (3GPP TS 32.111-2 [11])	
notifyAttributeValueChange	0	
notifyChangedAlarm	See Alarm IRP (3GPP TS 32.111-2 [11])	
notifyClearedAlarm	See Alarm IRP (3GPP TS 32.111-2 [11])	
notifyNewAlarm	See Alarm IRP (3GPP TS 32.111-2 [11])	
notifyObjectCreation	0	
notifyObjectDeletion	0	

.....

6.3.5 MOC ExternalGsmCell

This Managed Object Class represents a radio cell controlled by another IRPAgent. This MOC has necessary attributes for inter-system handover. It contains a subset of the attributes of related MOCs controlled by another IRPAgent. To maintain the consistency between the attribute values of these two MOCs is outside the scope of this document.

Table 10: Attributes of ExternalGsmCell

Name	Qualifier	Description
externalGsmCellId	READ-ONLY, M	An attribute whose 'name+value' can be used as an RDN when naming an instance of this object class. This RDN uniquely identifies
		the object instance within the scope of its containing (parent) object instance.
userLabel	READ-WRITE, M	A user friendly (and user assigned) name of
		the associated object.
cellIdentity	READ-WRITE, M	Cell identity, (Ref GSM 03.03)
bcchFrequency	READ-WRITE, M	This attribute contains the absolute radio frequency channel number of the BCCH channel of the GSM cell.
ncc	READ-WRITE, M	Network Colour Code, NCC (part of BSIC. Ref GSM 04.08).
bcc	READ-WRITE, M	Base station colour code, BCC (part of BSIC. Ref GSM 04.08).
lac	READ-WRITE, M	Location Area Code, LAC (Ref GSM 04.08).
mcc	READ-WRITE, M	Mobile Country Code (Ref GSM 04.08).
mnc	READ-WRITE, M	Mobile Network Code (Ref GSM 04.08).
rac	READ-WRITE, O	Routing Area Code, RAC.
		See Note for the optional condition.
racc	READ-WRITE, O	
		See Note for the optional condition.

Note: This attribute shall be included if the cell is a GPRS cell.

Table11: Notifications of ExternalGsmCell

Name	Qualifier	Notes
notifyAttributeValueChange	0	
notifyObjectCreation	0	
notifyObjectDeletion	0	

.....

	CHANGE REQUEST									
*	32.654	CR	002	₩ e	-	ж	Current vers	sion:	4.0.0	¥
For <u>HEL</u>	P on using	this form, se	e bottom of th	is page	or look	at the	e pop-up text	t over	the % sy	mbols.
Proposed ch	hange affec	e ts:)SIM M	E/UE	Rad	io Ac	cess Networ	k X	Core No	etwork
Title:	₩ Ad	dition of mcd	and mnc in th	ne objec	t model	of G	ERAN			
Source:	₩ SA	5								
Work item c	ode:₩ <mark>O</mark> A	AM-CM					Date: ₩	07/	09/2001	
Category:	Deta	F (correction A (correspon B (addition of C (functiona D (editorial r	nds to a correcti of feature), I modification of modification) ons of the abov	on in an o			Release: % Use <u>one</u> of 2 e) R96 R97 R98 R99 REL-4 REL-5	the fo (GSN (Rele (Rele (Rele (Rele		
Reason for o	change:		nnc are required the GERAN N		ify a GS	M cel	ll. These two a	attribu	tes are cur	rently
Summary of	change: ೫	adding the	attributes of mc	c and mn	c into th	ne MC	OCs gsmCell a	and ext	ternalGsm	Cell.
Consequence not approve		Cannot ide	entify GSM Ce	II.						
Clauses affe	ected: #	4.2.2, 5.2.	5, 5.2.8, 5.3.6	and 6						
Other specs affected:	* *	Other c	ore specifications pecifications				(GERAN Ne			es IRP:
Other comm	nents: #		d" CR can only -001_S5-0105		roved a	ıfter it	ts "Parent"			

How to create CRs using this form:

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- 2) Obtain the latest version for the release of the specification to which the change is proposed. Use the MS Word "revision marks" feature (also known as "track changes") when making the changes. All 3GPP specifications can be downloaded from the 3GPP server under ftp://ftp.3gpp.org/specs/ For the latest version, look for the directory name with the latest date e.g. 2001-03 contains the specifications resulting from the March 2001 TSG meetings.

3)	With "track changes" of just in front of the clau which are not relevant	disabled, paste the eruse containing the first to the change reques	ntire CR form (use CTRI t piece of changed text. st.	A to select it) into the specif Delete those parts of the sp	ication ecification

4.2.2 Mapping of Attributes

Table 2: Mapping of Attributes

Attribute defined in 3GPP TS 32.652	Attribute defined in this CMIP SS
bssFunctionId	bssFunctionId
btsSiteMgrId	btsSiteMgrId
latitude	latitude
longitude	longitude
gsmCellId	gsmCellId
cellIdentity	
lac	cellGlobalIdentity (GSM 12.20 : 6.1996)
mcc	
mnc	
cellAllocation	cellAllocation (GSM 12.20 : 6.1996)
ncc	bsIdentityCode.ncc (GSM 12.20 : 6.1996)
bcc	bsIdentityCode.bcc (GSM 12.20 : 6.1996)
lac	lac (3GPP TS32.644: 5.2001)
	only for the MOC gsmRelation
rac	rac (3GPP TS32.644: 5.2001)
racc	racc
tsc	tsc (GSM 12.20 : 6.1996)
rxLevAccessMin	rxLevAccessMin (GSM 12.20 : 6.1996)
msTxPwrMaxCCH	msTxPwrMaxCCH (GSM 12.20 : 6.1996)
hoppingSequenceNumber	hoppingSequenceNumber (GSM 12.20 : 6.1996)
plmnPermitted	plmnPermitted (GSM 12.20 : 6.1996)
gsmRelationId	gsmRelationId
relationType	relationType (3GPP TS32.644: 5.2001)
adjacentCell	adjacentCell
	(3GPP TS32.644: 5.2001)
bcchFrequency	bcchFrequency (GSM 12.20 : 6.1996)
externalGsmCellId	externalGsmCellId

5.2.5 gsmCellMandatoryPackage

gsmCellMandatoryPackage PACKAGE

BEHAVIOUR

gsmCellMandatoryPackageBehaviour;

ATTRIBUTES

cellIdentity GET-REPLACE,

"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,

"3GPP TS 32.644: 6.2001": lac 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.";

......

5.2.8 externalGsmCellMandatoryPackage

externalGsmCellMandatoryPackage PACKAGE

BEHAVIOUR

externalGsmCellMandatoryPackageBehaviour;

ATTRIBUTES

cellIdentity GET-REPLACE,

"ETS 300 622: JUNE 1996 (GSM 12.20 VERSION 4.2.1)": bsIdentityCode GET-REPLACE,

"3GPP TS 32.644: 6.2001": lac 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};

$external Gsm Cell Mandatory Package Behaviour \ {\tt BEHAVIOUR}$

DEFINED AS

"This package contains the elementary mandatory attributes of a externalGsmCell.":

5.3.6cellIdentity

cellIdentity ATTRIBUTE

- WITH ATTRIBUTE SYNTAX TS32-654TypeModule.CellIdentity;
- MATCHES FOR EQUALITY;
- **BEHAVIOUR**
- cellIdentityBehaviour;

REGISTERED AS (ts32-654Attribute 6);

cellIdentityBehaviour BEHAVIOUR

DEFINED AS

"Location Area Code, LAC (Ref. 3 GPP TS 23.003)";

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)}
Rcc 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)}
CellIdentity
      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 32.654 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
Racc ::= INTEGER

END -- of TS32-654TypeModule