TSGS#17(02)0494

Technical Specification Group Services and System Aspects Meeting #17, Biarritz, France, 9-12 September 2002

Source: SA5 (Telecom Management)

Title: Rel-4 CR 32.652 (GERAN network resources Integration

Reference Point (IRP): Network Resource Model)

Document for: Approval

Agenda Item: 7.5.3

Doc-1st-	Spec	CR	Rev	Phase	Subject	Cat	Version-	Doc-2nd-	Workitem
SP-020494	32.652	006	-	Rel-4	UML corrections	F	4.3.0	S5- 026708	OAM-CM

3GPP TSG- SA5 (Telecom Management) Meeting #30 Tampere, FINLAND, 19 – 23 Aug. 2002

CHANGE REQUEST								
ж	32.652 CR 006							
For <u>HELP</u> 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: #	UML corrections							
Source: #	S5							
Work item code: ₩	OAM-CM Date: # 23/08/2002							
	Release: ₩ Rel-4 Use one of the following categories: Use one of the following releases: F (correction) 2 (GSM Phase 2) A (corresponds to a correction in an earlier release) R96 (Release 1996) B (addition of feature), R97 (Release 1997) C (functional modification of feature) R98 (Release 1998) D (editorial modification) R99 (Release 1999) Detailed explanations of the above categories can one found in 3GPP TR 21.900. Rel-4 (Release 4) Rel-5 (Release 5) Rel-6 (Release 6) Rel-6 (Release 6)							
Reason for change: # To make the UML diagrams unambigous.								
Summary of change	ummary of change: The non UML compliant parts of the diagrams are replaced with UML compliant parts.							
Consequences if not approved:	The UML diagrams are ambigous.							
Clauses affected:	策 6.2.2							
Other specs affected:	Y N X Other core specifications X Test specifications O&M Specifications							
Other comments:	*							

How to create CRs using this form:

Comprehensive information and tips about how to create CRs can be found at http://www.3gpp.org/specs/CR.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" disabled, paste the entire CR form (use CTRL-A to select it) into the specification just in front of the clause containing the first piece of changed text. Delete those parts of the specification which are not relevant to the change request.

4.2 Compliance rules

For general definitions of compliance rules related to qualifiers (Mandatory/Optional/Conditional) for *operations*, *notifications and parameters* (of operations and notifications) please refer to 3GPP TS 32.102 [2].

The following defines the meaning of Mandatory and Optional MOC attributes and associations between MOCs, in Solution Sets to the IRP defined by the present specificationdocument:

- The IRPManager shall support all mandatory attributes/associations. The IRPManager shall be prepared to
 receive information related to mandatory as well as optional attributes/associations without failure; however
 the IRPManager does not have to support handling of the optional attributes/associations.
- The IRPAgent shall support all mandatory attributes/associations. It may support optional attributes/associations.

An IRPAgent that incorporates vendor-specific extensions shall support normal communication with a 3GPP SA5-compliant IRPManager with respect to all Mandatory and Optional managed object classes, attributes, associations, operations, parameters and notifications without requiring the IRPManager to have any knowledge of the extensions.

Given that

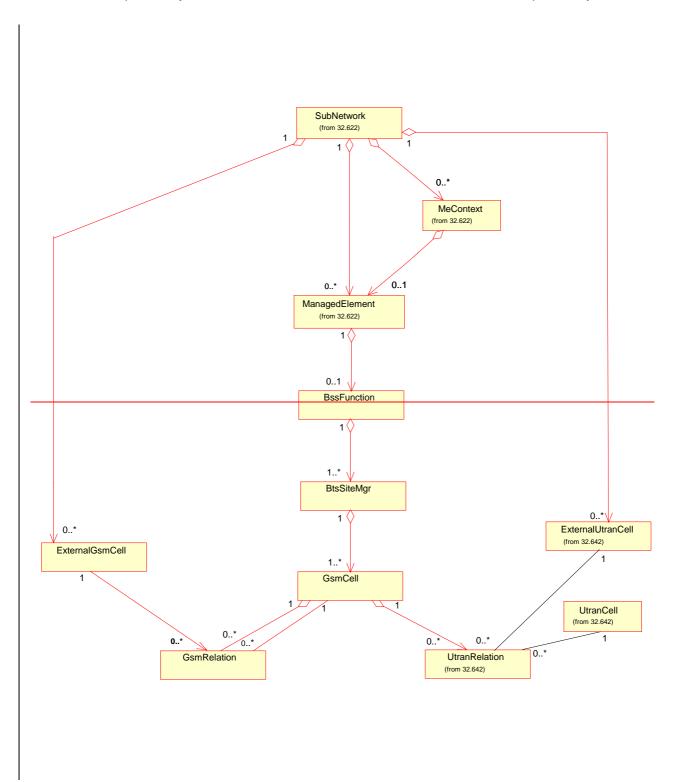
- rules for vendor-specific extensions remain to be fully specified, and
- many scenarios under which IRPManager and IRPAgent interwork may exist,

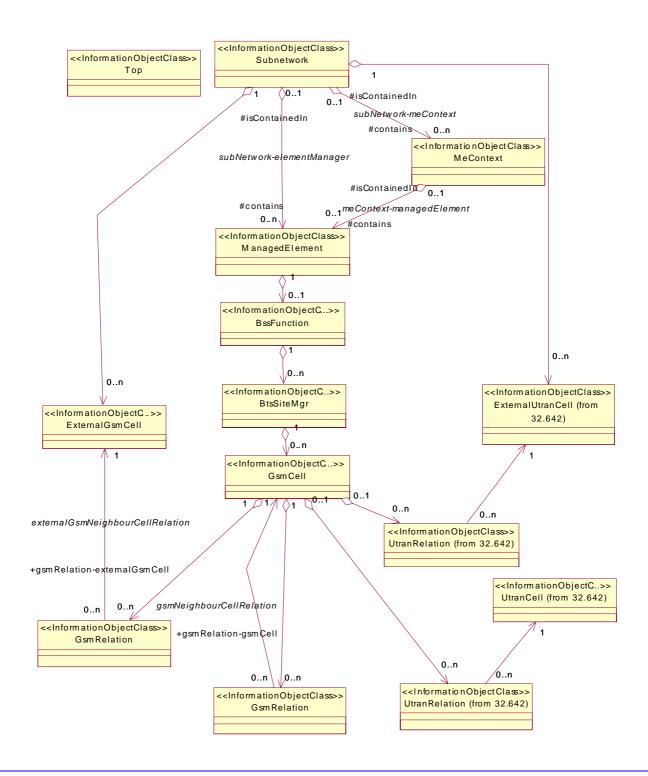
it is recognised that in Release 4/5 the IRPManager, even though it is not required to have knowledge of vendor-specific extensions, may be required to be implemented with an awareness that extensions can exist and behave accordingly.

6.2.2 Containment/Naming and Association diagrams

Figure 6.2 show the containment/naming hierarchy and the associations of the GERAN NRM.

NOTE: The Managed Object containment/naming relationships are in the diagram(s) below indicated by UML "Aggregation by reference" ("hollow diamonds").





- NOTE 1: ManagedElement may be contained in either a SubNetwork or an McContext instance, or have no parent instance at all. See also [16].
- NOTE 2: The listed cardinality numbers represent transient as well as steady-state numbers, and reflect all managed object creation and deletion scenarios.
- NOTE 3: The association between UtranRelation and UranCell is optional. It may be valid if both the UtranCell and the GsmCell are managed by the same management node.
- NOTE 4: The GeranRelation and UtranRelation can be contained under MOCs defined in other NRMs.

Figure 6.2: GERAN NRM Containment/Naming and Association diagram

Each Managed Object is identified with a Distinguished Name (DN) according to 3GPP TS 32.300 [13] that expresses its containment hierarchy. As an example, the DN of a Managed Object representing a cell could have a format like:

 $\label{lem:context} SubNetwork=Sweden\,, \\ \texttt{MeContext}=\texttt{MEC-Gbg-1}\,, \\ \texttt{ManagedElement}=\texttt{RNC-Gbg-1}\,, \\ \texttt{BssFunction}=\texttt{BSS1}\,.$