

**TSG-RAN Meeting #6
Nice, France, 13 – 15 December 1999**

TSGRP#6(99)744

Title: Agreed CRs of category "C" (Modification) and "F" (Correction) to TS 25.412

Source: TSG-RAN WG3

Agenda item: 5.4.3

Doc #	Status-	Spec	CR	Rev	Subject	Cat	Versio	Versio
R3-99i90	agreed	25.412	001		Removal of usage of SCCP Class 1	C	3.1.0	3.2.0

CHANGE REQUEST

Please see embedded help file at the bottom of this page for instructions on how to fill in this form correctly.

25.412 CR 001

Current Version: **3.1.0**

GSM (AA.BB) or 3G (AA.BBB) specification number ↑

↑ CR number as allocated by MCC support team

For submission to: **TSG-RAN#6**
list expected approval meeting # here ↑

for approval
for information

strategic
non-strategic (for SMG use only)

Form: CR cover sheet, version 2 for 3GPP and SMG The latest version of this form is available from: ftp://ftp.3gpp.org/Information/CR-Form-v2.doc

Proposed change affects:
(at least one should be marked with an X)

(U)SIM ME UTRAN / Radio Core Network

Source: TSG-RAN WG3

Date: 1999-11-03

Subject: Removal of usage of SCCP Class 1 for RANAP

Work item:

Category:

(only one category shall be marked with an X)

F Correction
A Corresponds to a correction in an earlier release
B Addition of feature
C Functional modification of feature
D Editorial modification

Release: Phase 2
Release 96
Release 97
Release 98
Release 99
Release 00

Reason for change:

At TSG-RAN3 meeting #8, it was decided that SCCP Class 1 shall not be used as signalling bearer for RANAP. SCCP Class 1 shall thus be removed from TS 25.412.

Clauses affected:

5.2 Signalling Bearer for Circuit Switched Domain
5.3 Signalling Bearer for Packet Switched Domain

Other specs affected:

Other 3G core specifications → List of CRs:
Other GSM core specifications → List of CRs:
MS test specifications → List of CRs:
BSS test specifications → List of CRs:
O&M specifications → List of CRs:

Other comments:



help.doc

<----- double-click here for help and instructions on how to create a CR.

5.2 Signalling Bearer for Circuit Switched Domain

The following figure 1 illustrates the protocol model having Broadband Signalling System No.7 as the signalling bearer for RANAP over the Iu interface that fulfils the requirements. Figure 1 shows, for the CS domain, the point at which the service primitives are invoked. The SAP provides the SCCP primitives.

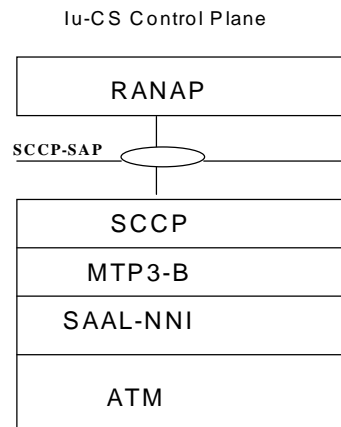


Figure 1 SAP between RANAP and its transport for Iu – CS Domain

- 1 **SCCP** [7] provides connectionless service, class 0, ~~connectionless service with guaranteed order, class 1~~, connection oriented service, class 2, separation of the connections mobile by mobile basis on the connection oriented link and establishment of a connection oriented link mobile by mobile basis.
- 2 **MTP3-B** [4] provides message routing, discrimination and distribution (for point-to-point link only), signalling link management load sharing and changeover/back between link within one link-set. The need for multiple link-sets is precluded.
- 3 **SAAL-NNI** [1] consists of the following sub-layers: - **SSCF** [3], - **SSCOP** [2] and – **AAL5** [6]. The SSCF maps the requirements of the layer above to the requirements of SSCOP. Also SAAL connection management, link status and remote processor status mechanisms are provided. SSCOP provides mechanisms for the establishment and release of connections and the reliable exchange of signalling information between signalling entities. Adapts the upper layer protocol to the requirements of the Lower ATM cells.
- 4 **ATM** [5]

5.3 Signalling Bearer for Packet Switched Domain

The protocol stacks for the PS Domain is shown in figure 2. The standard allows operators to chose one out of two standardised protocol to suites for transport of SCCP messages.

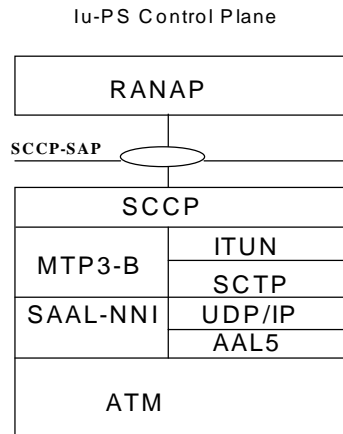


Figure 2 SAP between RANAP and its transport for the Iu –IP domain

Figure 2 shows, for the Iu IP domain, the point at which the service primitives are invoked. A single SAP is defined independently of the signalling bearer. The SAP provides the SCCP primitives. The figure is not intended to constrain the architecture.

- 1 **SCCP** [7] provides connectionless service, class 0, ~~connectionless service with guaranteed order, class 1~~, connection oriented service, class 2, separation of the connections mobile by mobile basis on the connection oriented link and establishment of a connection oriented link mobile by mobile basis.
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- 4 **ATM** [5]
- 5 **SCTP** [18] refers to the Simple Control Transmission Protocol [18] developed by the Sigtran working group of the IETF for the purpose of transporting various signaling protocols over IP networks. . ITUN refers to the SCCP adaptation layer “SS7 ISUP Tunneling” [19] also developed by the Sigtran working group of the IETF.
- 6 **UDP** [16] /**IP** [14] over ATM are defined in [15] and [16]