TSG-RAN Working Group 3 meeting #8 *TSGR3#8(99)D81*
Abiko, Japan, 25th – 29th of October 1999

Agenda Item: 12

Source: Ericsson

Title: **SCCP Services assumed for RANAP**

Document for: Decision

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1.   Introduction

In Ref. 1, it is stated that SCCP protocol classes 0, 1 and 2 shall be used for carrying RANAP messages. This contribution questions the need for protocol class 1. Classes 0 and 1 are both used for connectionless data transfer and the difference between class 0 and class 1 is that class 1 guarantees in sequence delivery of the RANAP NSDUs (Network Service Data Units). In RANAP we have the following messages using the connectionless service:

From CN to RNC
PAGING
CN INFORMATION BROADCAST REQUEST
OVERLOAD
RESET
RESET ACKNOWLEDGE
ERROR INDICATION

From RNC to CN
CN INFORMATION BROADCAST CONFIRM
CN INFORMATION BROADCAST REJECT
OVERLOAD
RESET
RESET ACKNOWLEDGE
ERROR INDICATION

No error situations will occur if any two of the messages within these groups do not arrive in RANAP at the receiving end in the same order as they were sent. Especially it can be noted that RESET always supersedes any other message (even RESET ACKNOWLEDGE) and therefore it is not an issue if RESET arrives before RESET ACKNOWLEDGE. It is thus suggested that only SCCP classes 0 and 2 shall be used by RANAP.

Based on this proposal, the text below is suggested as text for section 6 in Ref. 2. This text is based on Ref. 3.

2. Services expected from Signalling Transport

Signalling transport shall provide two different service modes for the RANAP:

1.   Connection-oriented data transfer service

2.   Connectionless data transfer service

For connectionless services, the SCCP Class 0 shall be used.

For connection oriented services, the SCCP Class 2 shall be used.

3. Proposals

It is proposed that the possibility to use SCCP Class 1 is removed from Ref. 1. See CR R3-99D83.

It is also proposed that the text in section 2 of this document is added to section 6 of Ref. 2.

4. References

1   25.412, UTRAN Iu Interface Signalling Transport

2   25.413, UTRAN Iu Interface RANAP Signalling

3   R3-99C22, SCCP Services (Nokia)