TSG-RAN Working Group 2 (Radio layer 2 and Radio layer 3)   *TSGR2#3(99) 242*
Yokohama 13th to 16th April 1999

Agenda Item:	7.12 (Other items)
Source:	Mannesmann Mobilfunk
Title:	Adaptation of Uu Interface for SMS Cell Broadcast Service
Document for:	Discussion and decision

Motivation:

SMS Cell Broadcast service is a Phase 1 requirement:
"Short Message Service-Cell Broadcast (SMS-CB):
A short message service cell broadcast shall be provided seamlessly (as far as the user or the users terminal equipment is concerned) across the UMTS and GSM network." (22.00 v3.1.1 , chapter 5.1).

The main requirement is service continuity regarding SMS CB service as defined in GSM 02.03. This implies that the size of the SMS CB message (93 characters) and the concatenation mechanism of up to 15 messages (called "pages") remains unchanged.

Mannemann Mobilfunk has already launched a few cell broadcast services and expects an increasing number of other services based on cell broadcast information. Thus, Mannesmann Mobilfunk strongly requires the support of the SMS CB service with the first release of UMTS Phase 1. Otherwise, no continuity of these services is given.

The overall capacity per cell is too small (lower than 1 kbit/s at maximum) in the given GSM implementation. For the UMTS implementation an overall capacity per cell about 20 kbit/s is required.

Another point should be discussed: SMS CB messages can be received in Idle Mode only in the GSM implementation. In the UMTS environment UEs can stay in the Connected Mode for a long time where SMS CB messages cannot be received. Thus, it should be possible to receive SMS CB messages in certain substates of the connected state to get the same behaviour as in the GSM world.

The new logical channel Common Traffic Channel (CTCH) should be introduced as already noted in S2.01 chapter 5.3.1.1.1.1 (Traffic channels).

Conclusions:

1.   *Include in S2.01, chapter 5.3.1.1.1.1 (Traffic channel) the new logical channel CTCH:*

        Common Traffic Channel (CTCH)
        A Common Traffic Channel is a downlink logical channel used to broadcast user data.

2.   A work package called "Adaptation of SMS Cell Broadcast Service" should be installed to specify the Uu requirements and to develop the resulting changes in the S2.xx specifications.