TSG RAN Working Group 1#9 **TSGR1#9 (99)L13**
Dresden, Germany
November 30-December 3, 1999

Agenda Item:	**AH14**
Source:	**GBT**
Title:	**CR 012 rev (1.0) for 25.213 (Support of short Codes for CPCH)**
Document for	**Approval**

Revision information

The document R-199i33 was presented in AH14. It was agreed to include short codes for CPCH. However, the group asked for ~~required~~ clarifications in use of indexes for the short codes and ~~.~~required notation alignment for the short codes.

3GPP TSG RAN WG1 (Radio) Meeting #9
Dresden, Germany Nov 30 – Dec 3, 1999

Document R1-99L13
e.g. for 3GPP use the format TP-99xxx
or for SMG, use the format P-99-xxx

CHANGE REQUEST

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

25.213	CR	012 r1.0	Current Version:	V3.0.0

GSM (AA.BB) or 3G (AA.BBB) specification number ↑ *↑ CR number as allocated by MCC support team*

For submission to: RAN *list expected approval meeting # here ↑*	for approval	X	strategic		*(for SMG use only)*
	for information		non-strategic		

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 [X] UTRAN / Radio [X] Core Network [ ]

Source: GBT **Date:** Dec 1 1999

Subject: Support of short codes for CPCH

Work item: TS25.213

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	X
D	Editorial modification	

Release:

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

Reason for change: To support short codes for CPCH

Clauses affected: 4.3.4.4

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:

4.3.4.4 Scrambling code for the CPCH message part

In addition to spreading, the message part is also subject to scrambling with a 10 ms complex code. The scrambling code is cell-specific and has a one-to-one correspondence to the scrambling code used for the preamble part. Both long or short scrambling codes can be used to scramble the CPCH message part.

In the case when the long scrambling codes are used,

$S_{c\text{-}msg,n} = C_{scramb,n}$,for chip indexes 8192…46591 of $C_{scramb,n}$.

In the case when the access resources are shared between the RACH and CPCH,

$S_{c\text{-}msg,n} = C_{scramb,n}$,for chip indexes 4096…42495 of $C_{scramb,n}$.

The generation of these codes is explained in 4.3.2.2. The mapping of these codes to provide a complex scrambling code is also the same as for the dedicated uplink channels and is described in 4.3.2.1.

~~NOTE: Use of short scrambling code for CPCH message part is ffs~~:

In the case the short scrambling codes are used,

~~$S_{c\text{-}msg,n} = C_{scramb,n}$,for chip indexes 0…38399 of $C_{scramb,n}$.~~

$S_{c\text{-}short,n}(i) = C_{short,n}(i)$, $i = 0, 1, \ldots, 38399$,