

**TSG RAN Working Group 1#9  
Dresden, Germany  
November 30-December 3, 1999**

**TSGR1#9 (99)i33**

<b>Agenda Item:</b>	<b>AH14</b>
<b>Source:</b>	<b>GBT</b>
<b>Title:</b>	<b>CR 012 for 25.213 (Support of short Codes for CPCH)</b>
<b>Document for</b>	<b>Approval</b>

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**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**

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: **WG1**  
 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:** **GBT**

**Date:** **24 Nov 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   
 D Editorial modification

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

**Reason for change:** **To support short codes for CPCH**

**Clauses affected:** **4.3.4.4**

**Other specs affected:**

Other 3G core specifications	<input type="checkbox"/>	→ List of CRs:	
Other GSM core specifications	<input type="checkbox"/>	→ List of CRs:	
MS test specifications	<input type="checkbox"/>	→ List of CRs:	
BSS test specifications	<input type="checkbox"/>	→ List of CRs:	
O&M specifications	<input type="checkbox"/>	→ 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 and short scrambling codes can be used to scramble the CPCH message part.

In the case when the long scrambling codes are used,

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

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

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

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.

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In the case the short scrambling codes are used,

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