Agenda Item: Ad hoc 14

Source : LGIC, Samsung, GBT, Lucent

Title : CR to 25.211 for the start of the message indicator for CPCH

Document for : Approval

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1. Introduction

At CPCH informal meeting in San Diego, a new idea, the start of the message indicator was proposed for solving CA message error problem. The key concept of this idea is that a specific pattern is transmitted during the first a few frames of DL DPCH for CPCH in order to indicate the starting point of DL DPCH. This method can prevent a false mobile from using a wrong CPCH channel. Therefore, UE can know whether it uses right or wrong CPCH channel using this information.

2. Details about the start of the message indicator for CPCH

- This message is always transmitted during the first $N_{Start\_Message}$ frames of DL DPCH for CPCH.
- Higher layers provide the value of $N_{Start\_Message}$ frames.
- This message does not require a request from higher layers.
- A predefined pattern, [1010], is repeatedly mapped onto the data field of DL DPCH during the first $N_{Start\_Message}$ frames.

3. Conclusion

We recommend that the CR be adopted as a specification for CPCH.

3GPP TSG RAN WG1 Meeting #11
San Diego, USA, Feb 29th – Mar 3rd 2000

Document **R1-00-0320**
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.

25.211	**CR**	**042**	Current Version:	**3.1.1**

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

For submission to: **TSG-RAN #7**   for approval **X**   strategic ☐ *(for SMG*
list expected approval meeting # here ↑   for information ☐   non-strategic ☐ *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: (U)SIM ☐   ME **X**   UTRAN / Radio **X**   Core Network ☐
(at least one should be marked with an X)

Source: LGIC, Samsung, GBT, Lucent   **Date:**   2000-02-29

Subject: The start of the message indicator

Work item:

Category: F   Correction
       A   Corresponds to a correction in an earlier release
(only one category   B   Addition of feature   **X**
shall be marked   C   Functional modification of feature
with an X)   D   Editorial modification

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

Reason for change: To solve CA message error problem

Clauses affected: 5.3.2.3

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.

3GPP

5.3.2.3   DL-DPCCH for CPCH

The spreading factor for the UL-DPCCH (message control part) is 256. The spreading factor for the DL-DPCCH (message control part) is 512. The following table 15 shows the DL-DPCCH fields (message control part) and DL-DPDCH fields, which are identical to the first row of table 11 in section 5.3.2.

Table 15: DPDCH and DPCCH fields for CPCH message transmission

Slot Format #I	Channel Bit Rate (kbps)	Channel Symbol Rate (ksps)	SF	Bits/Frame			Bits/ Slot	DPDCH Bits/Slot		DPCCH Bits/Slot		
				DPDCH	DPCCH	TOT		N_{Data1}	N_{Data2}	N_{TFCI}	N_{TPC}	N_{Pilot}
0	15	7.5	512	60	90	150	10	20	24	0	2	4

The start of the message indicator shall be transmitted during the first $N_{Start\_Message}$ frames of DL DPCH for CPCH. [1010] pattern is mapped onto N_{Data2} field for the start of the message indicator. The value of $N_{Start\_Message}$ shall be provided by higher layers.