TSG-RAN Working Group 1 meeting #12
Apr. 10 – 13, 2000, Seoul, Korea

TSGR1#12(00)0554

Agenda Item: Ad hoc 14

Source : LGIC

Title : CR to 25.214 for the power setting of the CCC field of DL DPCCH for CPCH

Document for : Approval

Introduction

The DL DPCCH for CPCH is a special case of downlink dedicated physical channel of SF=512. This channel provides power control and CPCH control commands such as Emergency Stop command and Start of Message Indicator for the uplink CPCH. The CPCH control commands are sent in the CCC field of the DL DPCCH.

At the moment, the power setting for the CCC field of DL DPCCH for CPCH is not described. Therefore we introduce a new parameter for the power offset between the CCC field and the pilot field.

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***Document* R1-00-0554**
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.

25.214	CR	97	Current Version:	3.2.0

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

For submission to: TSG-RAN #8 (*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: LGIC **Date:** 2000-04-10

Subject: The power setting of the CCC field of DL DPCCH for CPCH

Work item:

Category: (*only one category shall be marked with an X*)

F	Correction	X
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	X
Release 00	

Reason for change: The power setting of the CCC field of DL DPCCH for CPCH is not currently described.

Clauses affected: 3
5.2.1

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.

3 Abbreviations

For the purposes of the present document, the following abbreviations apply:

ASC	Access Service Class
AP	Access Preamble
BCH	Broadcast Channel
CCC	CPCH Control Command
CCPCH	Common Control Physical Channel
CD	Collision Detection
CPCH	Common Packet Channel
DCH	Dedicated Channel
DPCCH	Dedicated Physical Control Channel
DPCH	Dedicated Physical Channel
DTX	Discontinuous Transmission
DPDCH	Dedicated Physical Data Channel
FACH	Forward Access Channel
MUI	Mobile User Identifier
PCH	Paging Channel
PCPCH	Physical Common Packet Channel
PI	Paging Indication
PRACH	Physical Random Access Channel
RACH	Random Access Channel
SCH	Synchronisation Channel
SIR	Signal-to-Interference Ratio
SSDT	Site Selection Diversity TPC
TPC	Transmit Power Control
UE	User Equipment

5.2 Downlink power control

The transmit power of the downlink channels is determined by the network. In general the ratio of the transmit power between different downlink channels is not specified and may change with time. However, regulations exist as described in the following sub-clauses.

5.2.1 DPCCH/DPDCH

5.2.1.1 General

The downlink transmit power control procedure controls simultaneously the power of a DPCCH and its corresponding DPDCHs. The power control loop adjusts the power of the DPCCH and DPDCHs with the same amount, i.e. the relative power difference between the DPCCH and DPDCHs is not changed.

The relative transmit power offset between DPCCH fields and DPDCHs is determined by the network The TFCI, TPC and pilot fields of the DPCCH are offset relative to the DPDCHs power by PO1, PO2 and PO3 dB respectively. The power offsets may vary in time.

In case of the DPCCH for CPCH, the relative transmit power offset between CCC field and pilot field is determined by higher layer signalling. The CCC field is offset relative to the pilot field power by POCP dB.