TSG RAN Meeting #27 RP-050091

Tokyo, Japan, 9 - 11 March 2005

Title CR (Rel-6 Category F) to TS25.214 for DL/UL timing association of E-DCH

operation

Source TSG RAN WG1

Agenda Item 9.6

| RAN1 Tdoc | Spec | CR | Rev | Rel | Cat | Current Version | Subject | Work item | Remarks |
|-----------|--------|-----|-----|-------|-----|--------------------|---|-----------|---------|
| R1-050224 | 25.214 | 369 | 2 | Rel-6 | F | 6.4.0 | DL/UL timing association of E-DCH operation | EDCH-Phys | |

CR-Form-v7 1

3GPP TSG-RAN WG1 Meeting #40 Scottsdale, AZ, USA, 14–18 February 2005

| CHANGE REQUEST | | | | | | | | |
|---|--|---|--------------------------|--|--|--|--|--|
| * | 25.214 CR 3 | <mark>69</mark> ⋇rev | 2 ^೫ Cu | rrent version: | 6.4.0 * | | | |
| For <u>HELP</u> on using this form, see bottom of this page or look at the pop-up text over the \mathbb{K} symbols. | | | | | | | | |
| Proposed change affects: UICC apps# ME X Radio Access Network X Core Network | | | | | | | | |
| Title: ∺ | DL/UL timing asso | ication of E-DCH ope | eration | | | | | |
| Source: # | RAN WG1 | | | | | | | |
| Work item code: ₩ | EDCH-Phys | | | Date: 第 2/1 | 8/2005 | | | |
| | release) B (addition of fe C (functional m D (editorial mod | to a correction in an eature), odification of feature) dification) of the above categorie | L arlier | Ph2 (GSM R96 (Rele R97 (Rele R98 (Rele R99 (Rele Rel-4 (Rele Rel-5 (Rele | ollowing releases: A Phase 2) Pase 1996) Pase 1997) Pase 1998) Pase 1999) Pase 4) Pase 5) | | | |
| Reason for change | : | assoicaiton for E-DC | H operation is | unspecified | | | | |
| Summary of change: Adding missing specification text | | | | | | | | |
| Consequences if not approved: | 器 Can not opera | ate E-DCH | | | | | | |
| Clauses affected: | ж <mark>6В</mark> | | | | | | | |
| Other specs affected: | X Test sp | ore specifications ecifications pecifications | X | | | | | |
| Other comments: | | | | | | | | |

How to create CRs using this form:

Comprehensive information and tips about how to create CRs can be found at http://www.3gpp.org/specs/CR.htm. Below is a brief summary:

- 1) Fill out the above form. The symbols above marked \(\mathcal{H} \) contain pop-up help information about the field that they are closest to.
- 2) Obtain the latest version for the release of the specification to which the change is proposed. Use the MS Word "revision marks" feature (also known as "track changes") when making the changes. All 3GPP specifications can be downloaded from the 3GPP server under ftp://ftp.3gpp.org/specs/ For the latest version, look for the directory name with the latest date e.g. 2001-03 contains the specifications resulting from the March 2001 TSG meetings.

| 3) | With "track changes" disabled, pas the clause containing the first piece the change request. | te the entire CR for e of changed text. | m (use CTRL-A to sele Delete those parts of t | ect it) into the specification the specification which a | on just in front of re not relevant to |
|----|--|--|--|--|---|
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6B E-DCH related procedures

The following physical layer parameters are signalled to the UE from higher layers:

- 1) E-HICH set to be monitored
- 2) E-RGCH set to be monitored

6B.1 E-DCH control timing

6B.1.1 10 ms E-DCH TTI

For each cell in the E-DCH active set, the UE shall associate the control data received in the E-HICH frame associated with SFN *i* to the data transmitted in the E-DCH frame associated with SFN *i-3*.

The UE shall apply the control data received in the serving cell E-RGCH frame associated with SFN i to the E-DCH frame associated with SFN i+1.

The UE shall start using any control data received in any E-RGCH frame from a non serving cell as early as possible, but no later than 12 ms after the control data has been received.

The UE shall start using any control data received in any E-AGCH frame as early as possible but no later than 12 ms after the control data has been received.

6B.1.2 2 ms E-DCH TTI

For each cell in the E-DCH active set, the UE shall associate the control data received in sub-frame *j* of the E-HICH frame associated with SFN *i* to sub-frame *t* of the E-DCH frame associated with SFN *i*-s where:

$$s = 2 - \lfloor j/3 \rfloor$$
, and $t = (j+2) \mod 5$

The UE shall apply the control data received from the serving cell in E-RGCH sub-frame j of the frame associated with SFN i to sub-frame j of the E-DCH frame associated with SFN i+1.

The UE shall apply the control data received from the serving cell in E-AGCH sub-frame j of the frame associated with SFN i to sub-frame t of the E-DCH frame associated with SFN i+s where:

$$s = \left| \frac{\left\lceil \frac{30j + 100 - \left(\tau_{DPCH,n}/256\right)}{30} \right\rceil}{5} \right|, \text{ and } t = \left\lceil \frac{30j + 100 - \left(\tau_{DPCH,n}/256\right) - 150s}{30} \right\rceil$$

In non RG mode, the UE shall start using any control data received in any E-AGCH frame as early as possible but no later than 4 ms after the control data has been received.

The UE shall start using any control data received in any E-RGCH frame from a non serving cell as early as possible but no later than 4 ms after the control data has been received.