

TSG-RAN Meeting #22
Maui, Hawaii, USA, 9 - 12 December 2003

RP-030650

Title: Independent Release 5 CRs to TS 25.222

Source: TSG-RAN WG1

Agenda item: 7.2.5

TS 25.222 (RP-030650)

| RP tdoc# | WG tdoc# | Spec | CR | R | Subject | Ph | Cat | Current | New | WI | Remarks |
|-----------|-----------|--------|-----|---|---|-------|-----|---------|-------|------------|---------|
| RP-030650 | R1-031328 | 25.222 | 119 | - | Clarification of the CRC attachment procedure for HS-SCCH (TDD) | Rel-5 | F | 5.5.0 | 5.6.0 | HSDPA-Phys | |

The WI of CR119 was corrected from TEI-5 to HSDPA-Phys

CR-Form-v7

CHANGE REQUEST

⌘ **25.222 CR 119** ⌘ rev **-** ⌘ Current version: **5.5.0** ⌘

For **HELP** on using this form, see bottom of this page or look at the pop-up text over the ⌘ symbols.

Proposed change affects: UICC apps ME Radio Access Network Core Network

| | | | |
|------------------------|---|-----------------|---|
| Title: | ⌘ Clarification of the CRC attachment procedure for HS-SCCH (TDD) | | |
| Source: | ⌘ TSG RAN WG1 | | |
| Work item code: | ⌘ HSDPA-Phys | Date: | ⌘ 13/11/2003 |
| Category: | ⌘ F | Release: | ⌘ Rel-5 |
| | <i>Use one of the following categories:</i> F (correction) A (corresponds to a correction in an earlier release) B (addition of feature), C (functional modification of feature) D (editorial modification) Detailed explanations of the above categories can be found in 3GPP TR 21.900 . | | <i>Use one of the following releases:</i> 2 (GSM Phase 2) R96 (Release 1996) R97 (Release 1997) R98 (Release 1998) R99 (Release 1999) Rel-4 (Release 4) Rel-5 (Release 5) Rel-6 (Release 6) |

| | |
|--------------------------------------|--|
| Reason for change: | ⌘ CRC attachment procedure for HS-SCCH in not clearly defined. |
| Summary of change: | ⌘ Bit ordering for CRC attachemnt is defined to align with the procedure for other channels. |
| Consequences if not approved: | ⌘ Specifications will remain ambiguous. <u>Isolated Impact Analysis:</u> No impact to other specification as the correction only corresponds to CRC attachment procedure for HS-SCCH. The change does not have impact on earlier release than Rel-5. |

| | | | | | | | | | | | |
|------------------------------|---|---|---|--|---|--|---|--|---|--|--|
| Clauses affected: | ⌘ 4.6.3 | | | | | | | | | | |
| Other specs affected: | <table border="1" style="display: inline-table; border-collapse: collapse;"> <tr> <td style="width: 20px; text-align: center;">Y</td> <td style="width: 20px; text-align: center;">N</td> </tr> <tr> <td style="text-align: center;"> </td> <td style="text-align: center;">X</td> </tr> <tr> <td style="text-align: center;"> </td> <td style="text-align: center;">X</td> </tr> <tr> <td style="text-align: center;"> </td> <td style="text-align: center;">X</td> </tr> </table> Other core specifications ⌘ Test specifications O&M Specifications | Y | N | | X | | X | | X | | |
| Y | N | | | | | | | | | | |
| | X | | | | | | | | | | |
| | X | | | | | | | | | | |
| | 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 ⌘ 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, paste the entire CR form (use CTRL-A to select it) into the specification just in front of the clause containing the first piece of changed text. Delete those parts of the specification which are not relevant to the change request.

4.6.3 CRC attachment for HS-SCCH

From the sequence of bits a_1, a_2, \dots, a_A a 16 bit CRC is calculated according to Section 4.2.1.1. This gives a sequence of bits y_1, y_2, \dots, y_{16} where

$$y_k = p_{im(17-k)} \quad k=1,2,\dots,16.$$

This latter sequence of bits is then masked with the UE identity and appended to the sequence of bits a_1, a_2, \dots, a_A . The bits at the output of the CRC attachment block is the sequence of bits b_1, b_2, \dots, b_B , where

$$b_i = a_i \quad i=1,2,\dots,A$$

$$b_i = (y_{i-A} + x_{ue,i-A}) \bmod 2 \quad i=A+1 \dots B$$