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

***TSGR1#12(00)0503***

**Agenda item:** AH 4 / 8

**Source:** Nokia

**Title:** CR 25.212-066: corrections to table 9

**Document for:** Decision

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Table 9 of TS 25.212 has some ambiguities which are proposed to be corrected:

- Spreading factor 512 is not mentioned for frame type B
- gap lengths are not covering all cases
- UL and DL parameters are not separated

This CR proposes to split table 9 into three tables for UL CM, DL CM and combined UL+DL CM, to adjust the parameter settings. In addition, the idle lengths are recalculated.

**3GPP/SMG Meeting #12**
**Seoul, Korea, 10-13 April 2000**

***Document R1-00-0503***
*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.*

| 25.212 | CR | 066 | 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: | RAN #8 | for approval | X | strategic | | (for SMG use only) |
|---|---|---|---|---|---|---|
| *list expected approval meeting # here ↑* | | 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:** (U)SIM [ ] ME [ ] UTRAN / Radio [X] Core Network [ ]
*(at least one should be marked with an X)*

**Source:** Nokia **Date:** 05-Apr-00

**Subject:** Corrections to table 9

**Work item:**

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

| | | | | | |
|---|---|---|---|---|---|
| F | Correction | X | **Release:** | Phase 2 | |
| A | Corresponds to a correction in an earlier release | | | Release 96 | |
| B | Addition of feature | | | Release 97 | |
| C | Functional modification of feature | | | Release 98 | |
| D | Editorial modification | | | Release 99 | X |
| | | | | Release 00 | |

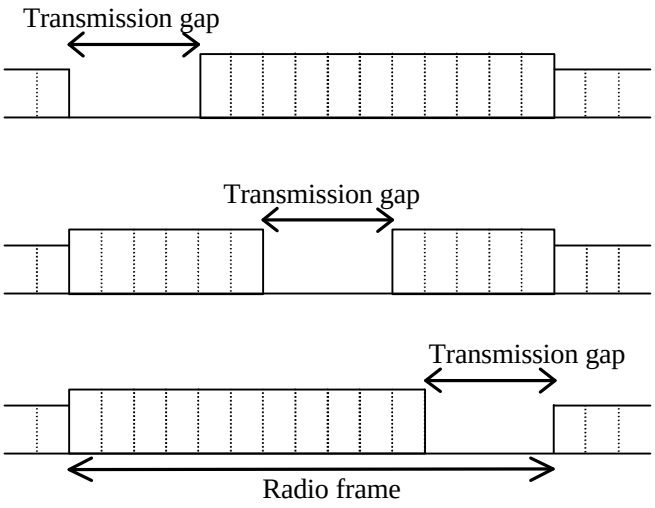
**Reason for change:** Table 9 contains some ambiguities which are corrected.

**Clauses affected:** 4.4.5

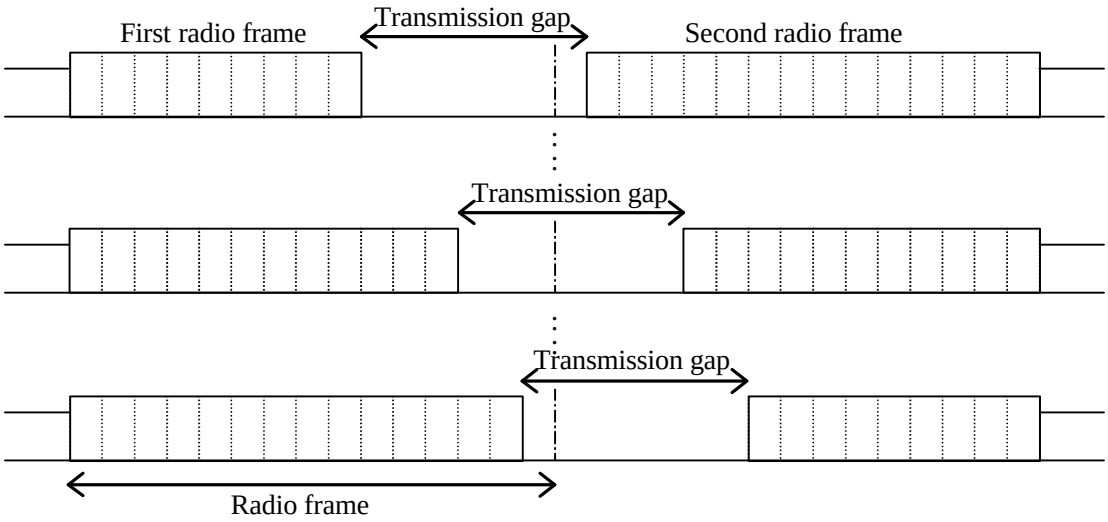
**Other specs affected:**

| | | | |
|---|---|---|---|
| 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:**




(1) Single-frame method




(2) Double-frame method

**Figure 15: Transmission gap positions with different $N_{first}$**

## 4.4.5 Parameters for downlink compressed mode

The tables 9-11 shows the idle lengths and idle frame combinations ~~detailed parameters~~ for each transmission gap length, UL/DL mode and frame type ~~for the different transmission time reduction methods~~.

~~Table 9: Parameters for compressed mode~~

| ~~TGL~~ | ~~Frame Type~~ | ~~Spreading Factor~~ | ~~Idle length [ms]~~ | ~~Transmission time Reduction method~~ | ~~Idle frame Combining~~ |
|---|---|---|---|---|---|
| ~~3~~ | ~~A~~ | ~~512 – 4~~ | ~~1.73-1.99~~ | ~~Puncturing, Spreading factor division by 2 or Higher layer scheduling~~ | ~~(S) (D) =(1,2) or (2,1)~~ |
| | ~~B~~ | ~~256 - 4~~ | ~~1.60-1.86~~ | | |
| ~~4~~ | ~~A~~ | ~~512 - 4~~ | ~~2.40-2.66~~ | | ~~(S) (D) =(1,3), (2,2) or (3,1)~~ |
| | ~~B~~ | ~~256 - 4~~ | ~~2.27-2.53~~ | | |
| ~~5~~ | ~~A~~ | ~~512 - 4~~ | ~~3.07-3.33~~ | | ~~(S) (D) = (1,4), (2,3), (3, 2) or (4,1)~~ |
| | ~~B~~ | ~~256 - 4~~ | ~~2.94-3.20~~ | | |
| ~~7~~ | ~~A~~ | ~~512 -4~~ | ~~4.40-4.66~~ | | ~~(S) (D)=(1,6), (2,5), (3,4), (4,3), (5,2) or (6,1)~~ |
| | ~~B~~ | ~~256 - 4~~ | ~~4.27-4.53~~ | | |
| ~~10~~ | ~~A~~ | ~~512 - 4~~ | ~~6.40-6.66~~ | | ~~(D)=(3,7), (4,6), (5,5), (6,4) or (7,3)~~ |
| | ~~B~~ | ~~256 - 4~~ | ~~6.27-6.53~~ | | |
| ~~14~~ | ~~A~~ | ~~512 - 4~~ | ~~9.07-9.33~~ | | ~~(D) =(7,7)~~ |
| | ~~B~~ | ~~256 - 4~~ | ~~8.93-9.19~~ | | |

## Table 9: Parameters for DL compressed mode

| TGL | DL Frame Type | Spreading Factor | Idle length [ms] | Transmission time Reduction method | Idle frame Combining |
|---|---|---|---|---|---|
| 3 | A | 512 – 4 | 1.73 – 1.99 | Puncturing, Spreading factor division by 2 or Higher layer scheduling | (S) (D) =(1,2) or (2,1) |
| | B | | 1.60 – 1.86 | | |
| 4 | A | | 2.40 – 2.66 | | (S) (D) =(1,3), (2,2) or (3,1) |
| | B | | 2.27 – 2.53 | | |
| 5 | A | | 3.07 – 3.33 | | (S) (D) = (1,4), (2,3), (3, 2) or (4,1) |
| | B | | 2.93 – 3.19 | | |
| 7 | A | | 4.40 – 4.66 | | (S) (D)=(1,6), (2,5), (3,4), (4,3), (5,2) or (6,1) |
| | B | | 4.27 – 4.53 | | |
| 10 | A | | 6.40 – 6.66 | | (D)=(3,7), (4,6), (5,5), (6,4) or (7,3) |
| | B | | 6.27 – 6.53 | | |
| 14 | A | | 9.07 – 9.33 | | (D) =(7,7) |
| | B | | 8.93 – 9.19 | | |

## Table 10: Parameters for UL compressed mode

| TGL | Spreading Factor | Idle length [ms] | Transmission time Reduction method | Idle frame Combining |
|---|---|---|---|---|
| 3 | 256 – 4 | 2.00 | Spreading factor division by 2 or Higher layer scheduling | (S) (D) =(1,2) or (2,1) |
| 4 | | 2.67 | | (S) (D) =(1,3), (2,2) or (3,1) |
| 5 | | 3.33 | | (S) (D) = (1,4), (2,3), (3, 2) or (4,1) |
| 7 | | 4.67 | | (S) (D)=(1,6), (2,5), (3,4), (4,3), (5,2) or (6,1) |
| 10 | | 6.67 | | (D)=(3,7), (4,6), (5,5), (6,4) or (7,3) |
| 14 | | 9.33 | | (D) =(7,7) |

**Table 11: Parameters for combined UL/DL compressed mode**

| TGL | DL Frame Type | Spreading Factor | Idle length [ms] | Transmission time Reduction method | Idle frame Combining |
|---|---|---|---|---|---|
| 3 | A or B | DL: 512 – 4<br>UL: 256 – 4 | 1.47 – 1.73 | DL: Puncturing, Spreading factor division by 2 or Higher layer scheduling<br>UL: Spreading factor division by 2 or Higher layer scheduling | (S)<br>(D) =(1,2) or (2,1) |
| 4 | | | 2.13 – 2.39 | | (S)<br>(D) =(1,3), (2,2) or (3,1) |
| 5 | | | 2.80 – 3.06 | | (S)<br>(D) = (1,4), (2,3), (3, 2) or (4,1) |
| 7 | | | 4.13 – 4.39 | | (S)<br>(D)=(1,6), (2,5), (3,4), (4,3), (5,2) or (6,1) |
| 10 | | | 6.13 – 6.39 | | (D)=(3,7), (4,6), (5,5), (6,4) or (7,3) |
| 14 | | | 8.80 – 9.06 | | (D) =(7,7) |

(S): Single-frame method as shown in figure 14 (1).

(D): Double-frame method as shown in figure 14 (2). (x,y) indicates x: the number of idle slots in the first frame, y: the number of idle slots in the second frame.

NOTE: Compressed mode by spreading factor reduction is not supported when SF=4 is used in normal mode.