

<h2 style="margin: 0;">CHANGE REQUEST</h2>		<i>Please see embedded help file at the bottom of this page for instructions on how to fill in this form correctly.</i>
<b>25.212</b>	<b>CR</b>	<b>067</b>
GSM (AA.BB) or 3G (AA.BBB) specification number ↑		↑ CR number as allocated by MCC support team
For submission to: <span style="background-color: yellow;">RAN#</span>	for approval <input checked="" type="checkbox"/>	strategic <input type="checkbox"/>
<i>list expected approval meeting # here</i> ↑	for information <input type="checkbox"/>	non-strategic <input type="checkbox"/> <span style="font-size: x-small;">(for SMG use only)</span>

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     Core Network   
*(at least one should be marked with an X)*

**Source:**    Siemens    **Date:**    7-April-2000

**Subject:**    Mapping of TFCl in uplink compressed mode

**Work item:**   

<b>Category:</b>	F Correction <input checked="" type="checkbox"/> A Corresponds to a correction in an earlier release <input type="checkbox"/> B Addition of feature <input type="checkbox"/> C Functional modification of feature <input type="checkbox"/> D Editorial modification <input type="checkbox"/>	<b>Release:</b>	Phase 2 <input type="checkbox"/> Release 96 <input type="checkbox"/> Release 97 <input type="checkbox"/> Release 98 <input type="checkbox"/> Release 99 <input checked="" type="checkbox"/> Release 00 <input checked="" type="checkbox"/>
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*(only one category shall be marked with an X)*

**Reason for change:**    Comment noted that CR25.212-048 corrected a fault in downlink compressed mode which also needs to be addressed in uplink compressed mode.

**Clauses affected:**    4.3.5.2.1

<b>Other specs affected:</b>	Other 3G core specifications <input type="checkbox"/> Other GSM core specifications <input type="checkbox"/> MS test specifications <input type="checkbox"/> BSS test specifications <input type="checkbox"/> O&M specifications <input type="checkbox"/>	→ List of CRs: → List of CRs: → List of CRs: → List of CRs: → List of CRs:	
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**Other comments:**   

<----- double-click here for help and instructions on how to create a CR.

#### 4.3.5.2.1 Uplink compressed mode

For uplink compressed mode, the slot format is changed so that no TFCI bits are lost. The different slot formats in compressed mode do not match the exact number of TFCI bits for all possible TGLs. Repetition of the TFCI bits is therefore used.

Denote the number of bits available in the TFCI fields of one compressed radio frame by  $D$  and the number of bits in the TFCI field in a slot by  $N_{TFCI}$ . Denote by  $E$  the first bit to be repeated,  $E = N_{first} N_{TFCI}$ .

$$E = N_{first} N_{TFCI}, \text{ if } N_{first} + TGL \leq 15, \text{ else } E = 0$$

If the transmission gap does not extend to the end of the frame  $N_{first} \neq 14$ , then  $E$  corresponds to the number of the first TFCI bit in the slot directly after the TG. The following relations then define the mapping.

$$d_k = b_{k \bmod 32}$$

where  $k = 0, 1, 2, \dots, \min(31, D-1)$ .

If  $D > 32$ , the remaining positions are filled by repetition (in reversed order):

$$d_{D-k-1} = b_{(E+k) \bmod 32}$$

where  $k = 0, \dots, D-33$ .