Source: **TSG-SA WG4**

Title: CR to TS 26.231 on " Request to remove the CTM tandeming requirement for handsets in the Minimum Performance Requirements " (Release 5)

Document for: **Approval**

Agenda Item: **7.4.3**

The following CR, agreed at the TSG-SA WG4 meeting #20, is presented to TSG SA #15 for approval.

Spec	CR	Rev	Phase	Subject	Cat	Vers	WG	Meeting	S4 doc
26.231	002		REL-5	Request to remove the CTM tandeming requirement for handsets in the Minimum Performance Requirements	F	5.1.0	S4	TSG-SA WG4#20	S4-020071

CR-Form-v4

CHANGE REQUEST

⌘ 26.231   **CR 002** ⌘ ev **-** ⌘ Current version: **5.1.0** ⌘

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

Proposed change affects: ⌘   (U)SIM ☐   ME/UE **X**   Radio Access Network ☐   Core Network ☐

Title: ⌘	Request to remove the CTM tandeming requirement for handsets in the Minimum Performance Requirements (TR 26.231)	
Source: ⌘	TSG SA WG4	
Work item code: ⌘	GTT	***Date:*** ⌘ 11 March 2002

Category: ⌘   **F**   ***Release:*** ⌘   Rel-5

Use <u>one</u> of the following categories:
* **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 <u>TR 21.900</u>.

Use <u>one</u> of the following releases:
* 2   (GSM Phase 2)*
* R96   (Release 1996)*
* R97   (Release 1997)*
* R98   (Release 1998)*
* R99   (Release 1999)*
* REL-4 (Release 4)*
* REL-5 (Release 5)*

Reason for change: ⌘	With CTM (TTY support) enabled on the handset, the user only needs to connect the phone directly to the TTY machine. There is no reason to have CTM in tandem. If the user has a TTY machine with CTM capability built in, then CTM (TTY support) is not even needed in the handset. In this case the user simply need not enable the TTY support in the handset and everything will work fine.
Summary of change: ⌘	To remove the requirement for handsets that the regenerated signal at the CTM receiver not contain any CTM headers.
Consequences if not approved: ⌘	In the example C code (TS 26.230), there is an extra 288 words of statically allocated RAM necessary. If CTM is implemented in the phone, then this memory is required by ALL users, whether they use the feature or not. There are also additonal cycles required. This is an unnecessary use of the phone's resources, which could be used for other applications.

Clauses affected: ⌘	Section 7.1 of TR 26.231 V5.1.0 (2001-09) (3GPP CTM Minimum Performance Requirements Rel 5). The affected section is attached below.

Other specs affected: ⌘	☐ Other core specifications ⌘	
	☐ Test specifications	
	☐ O&M Specifications	

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/3G_Specs/CRs.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.

The following step is optional for handsets:

In a second step it is examined whether the regenerated signal still contains any CTM preambles. This investigation is performed by means of the CTM detector that is integrated in adaptation_switch. This last test fails if the CTM detector is able to detect any CTM preamble in the regenerated signal.