

CR-Form-v4

CHANGE REQUEST

⌘ **25.214** CR **176** ⌘ rev **-** ⌘ Current version: **3.6.0** ⌘

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 Radio Access Network Core Network

Title:	⌘ Clarification on TPC command generation on downlink during RL initialisation		
Source:	⌘ Nortel Networks		
Work item code:	⌘	Date:	⌘ 05-03-2001
Category:	⌘ F	Release:	⌘ R99
	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 TR 21.900.		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:	⌘ The current description of TPC command generation is unclear "01" does not correspond to an already defined command or TPC bit pattern for one slot. In case there are more than 2 TPC bits in the downlink DPCH slot it is not clear what TPC bits the node B should send. Further a "1" command is referred to, it should be clarified whether it refers to the actual TPC bits or to the transmitter power control command as defined in table 13 of 25.211 (section 5.3.2).
Summary of change:	⌘ It is clarified that the TPC pattern defined in 5.1.2.2.1.2 refers to the transmitter power control command and not to the TPC bits to be sent in the downlink DPCH.
Consequences if not approved:	⌘ TPC command generation on downlink during radio link initialisation is ambiguous leading to potential different implementations by different vendors when the objective of this pattern was to harmonise the behaviours of node Bs during radio link initialisation.

Clauses affected:	⌘ 5.1.2.2.1.2		
Other specs affected:	⌘ <input type="checkbox"/> Other core specifications <input type="checkbox"/> Test specifications <input type="checkbox"/> 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://www.3gpp.org/specs/> For the latest version, look for the directory name with the latest date e.g. 2000-09 contains the specifications resulting from the September 2000 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.

5.1.2.2.1.2 TPC command generation on downlink during RL initialisation

When commanded by higher layers the TPC commands sent on a downlink radio link from Node Bs that have not yet achieved uplink synchronisation shall follow a pattern as follows:

If higher layers indicate by "First RLS indicator" that the radio link is part of the first radio link set sent to the UE and the value 'n' obtained from the parameter "DL TPC pattern 01 count" passed by higher layers is different from 0 then :

- a value 'n' is obtained from the parameter "DL TPC pattern 01 count" passed by higher layers,
- the TPC pattern shall consist of n instances of "01" the pair of TPC commands ("0", "1"), plus followed by one instance of TPC command "1", where ("0", "1") indicates the TPC commands to be transmitted in 2 consecutive slots,
- the TPC pattern continuously repeat but shall be forcibly re-started at the beginning of each frame where $CFN \bmod 4 = 0$.

else

- The TPC pattern shall consist only of a TPC commands "1".

The TPC pattern shall terminate once uplink synchronisation is achieved.

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⌘ **25.214 CR 177** ⌘ rev **-** ⌘ Current version: **4.0.0** ⌘

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