TSG-RAN Meeting #14 Kyoto, Japan, 11 - 14 December 2001

RP-010772

Title: Agreed CRs (Rel-4) to TS 25.323

Source: TSG-RAN WG2

Agenda item: 8.2.4

Doc-1st-	Status-	Spec	CR	Rev	Phase	Subject	Cat	Version	Versio	Workite
R2-012629	agreed	25.323	039		Rel-4	Management of Full Header transmission	F	4.2.0	4.3.0	TEI4

3GPP TSG-RAN WG2 Meeting #25 Makuhari, Japan, 26 - 30 November 2001

CHANGE REQUEST						CR-Form-v5				
*	25.323	CR	039	жrev	-		Current vers	ion:	4.2.0	ж
For <u>HELP</u> on using this form, see bottom of this page or look at the pop-up text over the ♯ symbols.						nbols.				
Proposed cl	hange affec	ts: 第 (U)SII	ME/	UE X	Radio	Acc	ess Network	X	Core Ne	twork
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Category:	Deta	one of the following for (correction) A (corresponds B (addition of fector) C (functional modulity) D (editorial modulity) iled explanations und in 3GPP TR	to a correction ature), odification of fe ification) of the above o	in an ear eature)			R96 R97 R98 R99 REL-4	the for (GSM (Rele (Rele (Rele (Rele (Rele		eases:
Reason for o	change: #	As explained improve the e		9, the Fu	II hea	der tr	ansmission	shoul	d be cont	rolled to
Summary of	change: ೫	A new section	(5.1.2.X) is	added.						
Consequence not approve		Inefficient beh	navior.							
Clauses affe	ected: #	5.1.2.3 (new)								
Other specs affected:	*	X Other core Test specif O&M Spec		s ¥	25.3	322				
Other comm	ents: #									

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 \(\mathcal{H} \) 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.

5.1.2 IP Header Compression (RFC 2507)

The detailed operation of the RFC 2507 header compression protocol is specified in IETF RFC 2507 [6]. The mechanisms related to error recovery and packet reordering are also described in RFC 2507. These mechanisms shall be included in the functionality of the header compression supported by PDCP. The implementation of the RFC 2507 header compression functionality is not covered in this specification and is left to the implementation.

5.1.2.1 Context identifiers

Context identifiers for RFC 2507 shall only be included in the RFC 2507 packet types format, as defined in [6].

5.1.2.2 Mapping of PID values for RFC 2507

PID values shall be mapped to the RFC 2507 header compression packet types in the order presented in Table 2 below where "n" is the number of PID values already mapped to other protocol packet types.

Table 2: Mapping of PID values for RFC 2507 header compression protocol

PID value	Optimisation method	Packet type
n+1	RFC 2507	Full header
n+2	RFC 2507	Compressed TCP
n+3	RFC 2507	Compressed TCP non-delta
n+4	RFC 2507	Compressed non-TCP
n+5	RFC 2507	Context state

5.1.2.3 Management of Full Header transmission

Transmission of a full header packet may be controlled by the lower layer information.

For a TCP stream, if the PDCP receives from lower layer the information of failed transmission of a single packet, the PDCP may send the next packet as a full header.

For a non-TCP stream, if the PDCP receives from lower layer the information of successful transmission of a full header packet, the PDCP may stop sending a full header packet that contains the same full header as previously transmitted one.