Tdoc NP-000638

3GPP TSG CN Plenary Meeting #10, Bangkok, Thailand 6th – 8th December 2000

Source: TSG_CN WG 4

Title: CRs to R99 Work Item TEI

Agenda item: 7.6

Document for: APPROVAL

Introduction:

This document contains 1 CR on R99 Work Item TEI, that have been agreed by TSG_CN WG4, and is forwarded to TSG_CN Plenary meeting #10 for approval.

	SMG#	TDoc	SPEC	CR	RE	PHAS	VERS	SUBJECT	CAT
1	CN10	N4-001052	29.060	154	1	R99	3.6.0	Correction of Security parameters length	F

3GPP TSG-CN4 CN#05 Meeting , Paris, FRANCE 13th November – 17th November 2000

Document N4-001052

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.								
		29.060	CR	154r1	Current Ve	ersion: 3.6.0		
GSM (AA.BB) or 3G	(AA.BBB) specification	n number↑		↑ CR nu	mber as allocated by M	CC support team		
For submission		for approval X for information			non-str	strategic (for SMG use only) om: ftp://ftp.3gpp.org/Information/CR-Form-v2.doc		
Proposed change affects: (U)SIM ME UTRAN / Radio Core Network								
Source:	CN4				<u>Dat</u>	<u>e:</u> 2000-11-14		
Subject:	Removal of 'V	ersion not Sup	ported' fo	r GTP-U				
Work item:	TEI							
Category: A (only one category shall be marked with an X) F A Control Contro	Corresponds Addition of fea	odification of fe		ier release	X Release	Phase 2 Release 96 Release 97 Release 98 Release 99 Release 00		
Reason for change:	Procedural us 29.060, theref	Ion-critical CR supported by consensus Procedural use of the 'Version not Supported' message is only specified for GTP-C in 9.060, therefore this CR proposes that all material regarding the validity and formatting f a GTP-U 'Version not Supported' message is removed.						
Clauses affected	7.1, 9.3.1							
affected:	Other 3G core so Other GSM core MS test specific BSS test specific O&M specification	e specifications ations ications	3 — — — — — — — — — — — — — — — — — — —	List of CR	ds: ds: ds:			
Other comments:								
help.doc	c double	-click here for b	neln and i	ostructions	on how to create	a CR		

First Modified Section

7 GTP Messages and Message Formats

7.1 Message Formats

GTP defines a set of messages between two associated GSNs or an SGSN and an RNC. The messages to be used are defined in the table below. The three columns to the right define which parts (GTP-C, GTP-U or GTP') that send or receive the specific message type.

Table 1: Signalling Messages in GTP

Message Type value (Decimal)	Message	Reference	GTP-C	GTP-U	GTP'
0	For future use. Shall not be sent. If received, shall be treated as an Unknown message.				
1	Echo Request	7.2.1	Χ	Х	х
2	Echo Response	7.2.2	X	X	X
3	Version Not Supported	7.2.3	X	X	X
4	Node Alive Request	GSM 12.15			X
5	Node Alive Response	GSM 12.15			X
6	Redirection Request	GSM 12.15			Х
7	Redirection Response	GSM 12.15			X
8-15	For future use. Shall not be sent. If received, shall be treated as an Unknown message.				
16	Create PDP Context Request	7.3.1	Х		
17	Create PDP Context Response	7.3.2	Х		
18	Update PDP Context Request	7.3.3	Х		
19	Update PDP Context Response	7.3.4	Х		
20	Delete PDP Context Request	7.3.5	Х		
21	Delete PDP Context Response	7.3.6	Х		
22-25	For future use. Shall not be sent. If received, shall be treated as an Unknown message.				
26	Error Indication	7.3.7		Х	
27	PDU Notification Request	7.3.8	Х		
28	PDU Notification Response	7.3.9	Х		
29	PDU Notification Reject Request	7.3.10	Х		
30	PDU Notification Reject Response	7.3.11	Х		
31	Supported Extension Headers Notification	7.2.4	Х	Х	
32	Send Routeing Information for GPRS Request	7.4.1	Х		
33	Send Routeing Information for GPRS Response	7.4.2	X		
34	Failure Report Request	7.4.3	Х		
35	Failure Report Response	7.4.4	Х		
36	Note MS GPRS Present Request	7.4.5	Χ		
37	Note MS GPRS Present Response	7.4.6	Х		
38-47	For future use. Shall not be sent. If received, shall be treated as an Unknown message.				
48	Identification Request	7.5.1	Х		
49	Identification Response	7.5.2	Х		
50	SGSN Context Request	7.5.3	Х		
51	SGSN Context Response	7.5.4	Χ		
52	SGSN Context Acknowledge	7.5.5	Χ		
53	Forward Relocation Request	7.5.6	Χ		
54	Forward Relocation Response	7.5.7	Χ		
55	Forward Relocation Complete	7.5.8	Χ		
56	Relocation Cancel Request	7.5.9	Χ		
57	Relocation Cancel Response	7.5.10	Х		
58	Forward SRNS Context	7.5.11	Х		
59	Forward Relocation Complete Acknowledge	7.5.x	Χ		
60	Forward SRNS Context Acknowledge	7.5.x	Χ		
61-239	For future use. Shall not be sent. If received,				
	shall be treated as an Unknown message.				
240	Data Record Transfer Request	GSM 12.15			Χ
241	Data Record Transfer Response	GSM 12.15			Χ
242-254	For future use. Shall not be sent. If received, shall be treated as an Unknown message.				
255	T-PDU	9.3.1		Х	

Next Modified Section

9.3.1 Usage of the GTP-U Header

The GTP-U header shall be used as follows:

- Version shall be set to decimal 1 ('001').
- Protocol Type (PT) shall be set to '1'.
- If the S field is set to '1' the sequence number field is present otherwise it is set to '0'. For GTP-U messages Echo Request, Echo Response, Version Not Supported and Supported Extension Headers Notification, the S field shall be set to '1'.- PN flag: the GTP-U header includes the N-PDU Number field if the PN flag is set to 1.
- Message Type shall be set according to Table 1. The value 255 is used when T-PDUs are transmitted. The value 1 and 2 are used for "Echo" messages. The value 3 is used for "Version Non Supported" messages. The value 26 is used for "Error Indication" message.
- Length: Size of the T-PDU excluding the GTP-U header size.
- Sequence Number: This field is present only if the S field is set to 1. The handling of this field is specified in subclause 9.1.1. It shall be used in order to decide whether or not to discard a received T-PDU, as specified in sub-clause 9.3.1.1 Usage of the Sequence Number. For GTP-U messages Version Not Supported and Supported Extension Headers Notification, the Sequence Number shall be ignored by the receiver.
- N-PDU Number: This field shall be included if and only if the PN flag is set to 1. In this case, the old SGSN (or RNC) uses it, at the Inter SGSN Routeing Area Update procedure (or SRNS relocation), to inform the new SGSN (or RNC) of the N-PDU number assigned to T-PDU. If an N-PDU number was not assigned to the T-PDU by PDCP, or if the T-PDU is to be transferred using unacknowledged peer-to-peer LLC operation, then PN shall be set to 0.
- TEID: Contains the Tunnel Endpoint Identifier for the tunnel to which this T-PDU belongs. The TEID shall be used by the receiving entity to find the PDP context, except for the following cases:
 - -The Echo Request/Response, Supported Extension Headers notification and the Version Not Supported messages, where the Tunnel Endpoint Identifier shall be set to all zeroes.
 - -The Error Indication message where the Tunnel Endpoint Identifier shall be set to all zeros.