# 3GPP TSG-CN Meeting #25 8<sup>th</sup> – 10<sup>th</sup> September 2004. Palm Springs, USA.

Source:	TSG CN WG1
Title:	CR on Rel-6 WI "GTP Enhancements" towards TS 24.008
Agenda item:	9.22
Document for:	APPROVAL

This document contains **1 CR on Rel-6 Work Item "GTP Enhancements"**, that has been agreed by TSG CN WG1 CN#35 meeting and forwarded to TSG CN Plenary meeting #25 for approval.

TDoc #	Tdoc Title	Spec	CR #	Rev	САТ	Current version	WI	Rel
N1- 041627	Correction to list of received N-PDU number in Rau Accept message	24.008	886	2	F	6.5.0	GTP Enhancements	Rel-6

## 2CDD TSC CN WC1 Monting #25

## N1\_011627

	IN WGI	weeting #				/ 1	-04/02/	
Sophia Antip	olis, F	rance. 16 <sup>th</sup>	to 20 <sup>th</sup> Au	ugust 200	4.	rev of Td	oc N1-041	534
						•		CR-Form-v7.1
H	24	<mark>.008</mark> CR	886	жrev	<b>2</b> <sup>#</sup>	Current ver	sion: 6.5.	<mark>ж</mark>
For <u>HELP</u>	on using	this form, see	e bottom of tl	his page or	look at th	e pop-up tex	t over the 🛱 s	symbols.
Proposed char	nge affeo	cts: UICC a	npps#	ME	Radio A	ccess Netwo	ork Core	Network X
Title:	ж <mark>Сс</mark>	orrection to li	st of receiv	ed N-PDU	number i	n Rau Acce <sub>l</sub>	ot message	
Source:	ж н	JAWEI						
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Category:	¥ F					Release: ଖ	Rel-6	
	Use	e <u>one</u> of the follo	owing categor	ies:		Use <u>one</u> o	f the following	releases:
1		A (correction)	ds to a correc	tion in an ear	lier releas	e) R96	(GSM Phase (Release 199	2) )6)
1		B (addition of	feature),			R97	(Release 199	97)
1		<b>C</b> (functional	modification o	of feature)		R98	(Release 199	98) NOV
	Deta	<i>D</i> (ealtorial m ailed explanatio	odification)	ve categories	scan	R99 Rel-4	(Release 199 (Release 4)	9)
	be f	ound in 3GPP	<u>TR 21.900</u> .	vo outogonot	Joan	Rel-5	(Release 5)	
1						Rel-6	(Release 6)	
						Rel-7	(Release 7)	
Reason for cha	ange: ೫	The following	ng errors nee	ed to be cou	rected in	TS 24.008.	These errors	are related
		CHANGE.	eceive N-PD	0 numbers		KAU and IN	IIER SYSIE	M
l		List of Poor		Numbors in		opt mossage		
		< extract f	rom TS 24.	008 >		oprincosaye	-	
		This IE sha	II be include	d in case of	an inter	SGSN routing	g area updati	ng, if there
l		are PDP co	ontexts that h	nave been a	ctivated i	n acknowled	ged transfer i	mode.
		< end of ex	ktract >					
l		TS 23 060	specifies tha	at List of Re	ceive N-F	DU Number	should also h	ne included
l		in UMTS to	GSM Intra	SGSN Char	nge.			
		UMTS to G	SM Intra SG	SN Change	ć			
		< extract fi	rom TS 23.0	)60 >	<u>~</u>			
		The 2G+3G restrictions checking fa appropriate and PDP co established	G-SGSN valie the MS is no ails, the 2G+3 cause. If all ontexts for the between the	dates the M ot allowed to 3G-SGSN r I checks are ne MS. A ne e new 2G+2	S's prese b be attac ejects the success w P-TMS 3G-SGSN	ence in the ne ched in the R routeing are ful, the 2G+3 I may be allo I and the MS	ew RA. If due A, or if subsc a update with G-SGSN upo ocated. A logi . The establis	to roaming ription an dates MM cal link is shment ant (P-

	thereby confirming all mobile-originated N-PDUs successfully transferred before the start of the update procedure. < end of extract >						
In TS 24.008, N-PDU numbers shall be included in case of an inter SGSN routing area updating. In fact, in the case of UMTS to GSM Intra SGSN Cha when 3g system changes to 2G system, list of Receive N-PDU Numbers sha included in Rau Accept message as well. Lacked of list of N-PDU numbers i Rau accept message, intersystem change will fail. The description in TS 24. about list of receive N-PDU numbers is not compatible with the descriptions TS 23,060.							
Summary of change: #	message in 24 008						
Consequences if 🛛 🕱	UMTS to GSM Intra SGSN Change problems; Intersystem change will fail						
not approved:	lacking of List of Receive N-PDU numbers.						
Clauses affected: #	9.4.15						
	0.1.10,						
	YN						
Other specs %	X Other core specifications #						
affected:	X Test specifications						
Other comments: ೫							

#### How to create CRs using this form:

Comprehensive information and tips about how to create CRs can be found at <u>http://www.3gpp.org/specs/CR.htm</u>. 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 <u>ftp://ftp.3gpp.org/specs/</u> 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.

## \*\*\* First Modification \*\*\*

### 9.4.15 Routing area update accept

This message is sent by the network to the MS to provide the MS with GPRS mobility management related data in response to a *routing area update request* message. See table 9.4.15/3GPP TS 24.008.

Message type: ROUTING AREA UPDATE ACCEPT

Significance: dual

Direction: network to MS

#### Table 9.4.15/3GPP TS 24.008: ROUTING AREA UPDATE ACCEPT message content

IEI	Information Element	Information Element Type/Reference		Format	Length	
	Protocol discriminator	Protocol discriminator 10.2	М	V	1/2	
	Skip indicator	Skip indicator 10.3.1	М	V	1/2	
	Routing area update accept message identity	Message type 10.4	М	V	1	
	Force to standby	Force to standby 10.5.5.7	М	V	1/2	
	Update result	Update result 10.5.5.17	М	V	1/2	
	Periodic RA update timer	GPRS Timer 10.5.7.3	М	V	1	
	Routing area identification	Routing area identification 10.5.5.15	М	V	6	
19	P-TMSI signature	P-TMSI signature 10.5.5.8	0	TV	4	
18	Allocated P-TMSI	Mobile identity 10.5.1.4	0	TLV	7	
23	MS identity	Mobile identity 10.5.1.4	0	TLV	7-10	
26	List of Receive N-PDU Numbers	Receive N-PDU Number list 10.5.5.11	0	TLV	4 - 19	
17	Negotiated READY timer value	GPRS Timer 10.5.7.3	0	TV	2	
25	GMM cause	GMM cause 10.5.5.14	0	TV	2	
2A	T3302 value	GPRS Timer 2 10.5.7.4	0	TLV	3	
8C	Cell Notification	Cell Notification 10.5.5.21	0	Т	1	
4A	Equivalent PLMNs	PLMN List 10.5.1.13	0	TLV	5-47	
32	PDP context status	PDP context status 10.5.7.1	0	TLV	4	
B-	Network feature support	Network feature support 10.5.5.23	0	ΤV	1	
34	Emergency Number List	Emergency Number List 10.5.3.13	0	TLV	5-50	

#### 9.4.15.1 P-TMSI signature

This IE may be included to assign an identity to the MS's GMM context.

#### 9.4.15.2 Allocated P-TMSI

This IE may be included to assign a P-TMSI to an MS in case of a GPRS or combined routing area updating procedure.

### 9.4.15.3 MS identity

This IE may be included to assign or unassign a TMSI to a MS in case of a combined routing area updating procedure.

#### 9.4.15.4 List of Receive N-PDU Numbers

This IE shall be included in case of an inter SGSN routing area updating from A/Gb mode to A/Gb mode, or inter SGSN routing area updating from Iu mode to A/Gb mode, or intra SGSN routing area updating from Iu mode to A/Gb mode, or intra SGSN routing area updating from Iu mode to A/Gb mode, or intra SGSN routing area updating from Iu mode to A/Gb mode, or intra SGSN routing area updating from Iu mode to A/Gb mode, or intra SGSN routing area updating from Iu mode to A/Gb mode, or intra SGSN routing area updating from Iu mode to A/Gb mode, or intra SGSN routing area updating from Iu mode to A/Gb mode, or intra SGSN routing area updating from Iu mode to A/Gb mode, or intra SGSN routing area updating from Iu mode to A/Gb mode, or intra SGSN routing area updating from Iu mode to A/Gb mode, or intra SGSN routing area updating from Iu mode to A/Gb mode, or intra SGSN routing area updating from Iu mode to A/Gb mode, or intra SGSN routing area updating from Iu mode to A/Gb mode, or intra SGSN routing area updating from Iu mode to A/Gb mode, or intra SGSN routing area updating from Iu mode to A/Gb mode, or intra SGSN routing area updating from Iu mode to A/Gb mode.

### 9.4.15.5 Negotiated READY timer value

This IE may be included to indicate a value for the READY timer.

#### 9.4.15.6 GMM cause

This IE shall be included if the combined GPRS routing area updating procedure was successful for GPRS services only.

### 9.4.15.7 T3302 value

This IE may be included to indicate a value for the T3302 timer.

### 9.4.15.8 Cell Notification (GSM only)

In GSM, this IE shall be included if by the SGSN in order to indicate the ability to support the Cell Notification.

#### 9.4.15.9 Equivalent PLMNs

The *Equivalent PLMNs* information element is included if the network wants to inform the mobile station of equivalent PLMNs.

#### 9.4.15.10 PDP context status

This IE shall be included by the NW.

#### 9.4.15.11 Network feature support

This IE may be included to inform the MS of the support of certain features. If this IE is not included then the respective features are not supported.

#### 9.4.15.12 Emergency Number List

This IE may be sent by the network. If this IE is sent, the contents of this IE indicates a list of emergency numbers valid within the same MCC as in the cell on which this IE is received.