NP-020250

3GPP TSG CN Plenary Meeting #16 5th – 7th June 2002 Marco Island, USA.

Source:	TSG CN WG4
Title:	CRs on Rel99 & earlier GPRS
Agenda item:	7.3
Document for:	APPROVAL

Introduction:

This document contains 4 CRs on R99 & earlier Work Item "GTP Enhancement", that have been agreed by TSG CN WG4, and are forwarded to TSG CN Plenary meeting #16 for approval.

Spec	CR	Rev	Doc-2nd-Level	Phase	Subject	Cat	Ver_C
09.60	A111		N4-020591	R97	Addition of APN-OI to Inter-SGSN RAU	F	6.11.0
09.60	A112		N4-020592	R98	Addition of APN-OI to Inter-SGSN RAU	А	7.8.0
29.060	312		N4-020341	R99	Addition of APN-OI to Inter-SGSN RAU	А	3.12.0
29.060	313		N4-020328	R99	Correction on the handling of S field	F	3.12.0

3GPP TSG CN WG4 Meeting #14 Budapest, Hungary, 13th – 17th May 2002

N4-020591

CHANGE REQUEST									
ж	09.60 CR A111 # rev - ^{# Current version: 6.11.0 [#]}								
For <u>HELP</u> on us	ing this form, see bottom of this page or look at the pop-up text over the $#$ symbols.								
Proposed change a	ffects: # (U)SIM ME/UE Radio Access Network Core Network X								
Title: ೫	Addition of APN-OI to Inter-SGSN RAU								
Source: ೫	CN4								
Work item code: %	GTP enhancements Date: # 29 th April 2002								
Category: ⊮	F(essential correction)Release: %R97Use one of the following categories: F (correction)Use one of the following releases: 2(GSM Phase 2)A (corresponds to a correction in an earlier release)R96(Release 1996)B (addition of feature), C (functional modification of feature)R97(Release 1997)C (functional modification)R98(Release 1998)D (editorial modification)R99(Release 1999)Detailed explanations of the above categories can be found in 3GPP TR 21.900.REL-4(Release 5)								
Reason for change:	In 09.60, it is stated that only the APN NI is sent from the Source SGSN to the Target SGSN during IRAU. A new S-CDR is opened on the Target SGSN upon receipt of notification that an IRAU has been initiated, but the S-CDR does not include the APN OI field. Since this new S-CDR does not contain APN OI, it is rejected by the CGF because the APN OI field is mandatory in 12.15. Hence the CGF rejects all S-CDR's that are generated for new PDP Contexts after an IRAU.								
Summary of change	e: # Add APN OI to the information transferred during Inter-SGSN RAU.								
Consequences if not approved:	# PDP Contexts transferred over an IRAU cannot be billed on the Target SGSN								
Clauses affected:	¥ 7.9.20								
Other specs affected:	% Other core specifications % Test specifications 0&M Specifications								
Other comments:	H Contraction of the second								

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.

7.9.20 PDP Context

The PDP Context information element contains the Session Management parameters, defined for an external packet data network address, that are necessary to transfer between SGSNs at the Inter SGSN Routeing Area Update procedure.

NSAPI is an integer value in the range [0; 15].

The NSAPI points out the affected PDP context.

The SAPI indicates the LLC SAPI which is associated with the NSAPI.

Transaction Identifier is the 4 bit Transaction Identifier used in the GSM 04.08 Session Management messages which control this PDP Context.

Reordering Required (Order) indicates whether the SGSN shall reorder T-PDUs before delivering the T-PDUs to the MS.

VPLMN Address Allowed (VAA) indicates whether the MS is allowed to use the APN in the domain of the HPLMN only, or additionally the APN in the domain of the VPLMN.

Quality of Service Subscribed (QoS Sub), Quality of Service Requested (QoS Req) and Quality of Service Negotiated (QoS Neg) are encoded as described in section 'Quality of Service (QoS) Profile'.

The Sequence Number Down is the number of the next T-PDU that shall be sent from the new SGSN to the MS. The number is associated to the Sequence Number from the GTP Header of an encapsulated T-PDU.

The Sequence Number Up is the number that new SGSN shall use as the Sequence Number in the GTP Header for the next encapsulated T-PDU from the MS to the GGSN.

The Send N-PDU Number is used only when acknowledged peer-to-peer LLC operation is used for the PDP context. The Send N-PDU Number is the N-PDU number to be assigned by SNDCP to the next downlink N-PDU received from the GGSN. It shall be set to 255 if unacknowledged peer-to-peer LLC operation is used for the PDP context.

The Receive N-PDU Number is used only when acknowledged peer-to-peer LLC operation is used for the PDP context. The Receive N-PDU Number is the N-PDU number expected by SNDCP from the next uplink N-PDU to be received from the MS. It shall be set to 255 if unacknowledged peer-to-peer LLC operation is used for the PDP context.

The Uplink Flow Label Signalling is the Flow Label used between the old SGSN and the GGSN in uplink direction for signalling purpose. It shall be used by the new SGSN within the GTP header of the Update PDP Context Request message.

The PDP Type Organization and PDP Type Number are encoded as in the End User Address information element.

The PDP Address Length represents the length of the PDP Address field, excluding the PDP Address Length octet.

The PDP Address is an octet array with a format dependent on the PDP Type. The PDP Address is encoded as in the End User Address information element if the PDP Type is IPv4, IPv6 or X.25.

The GGSN Address Length represents the length of the GGSN Address field, excluding the GGSN Address Length octet.

The old SGSN includes the GGSN Address for signalling that it has received from GGSN at PDP context activation or update.

The APN is the Access Point Name in use in the old SGSN. I.e. the APN sent in the Create PDP Context request message. This APN field shall be composed of the APN Network Identifier part and the APN Operator Identifier part.

The spare bits x indicate unused bits which shall be set to 0 by the sending side and which shall not be evaluated by the receiving side.



Figure 30: PDP Context information element

3GPP TSG CN WG4 Meeting #14 Budapest, Hungary, 13th – 17th May 2002

N4-020592

CHANGE REQUEST							
æ	09.60 CR A112 # rev - [#] Current version: 7.8.0 [#]						
For <u>HELP</u> on us	sing this form, see bottom of this page or look at the pop-up text over the st symbol	ols.					
Proposed change a	affects: # (U)SIM ME/UE Radio Access Network Core Netwo	ork <mark>X</mark>					
Title: ೫	Addition of APN-OI to Inter-SGSN RAU						
Source: ೫	CN4						
Work item code: %	GTP enhancements Date: # 29 th April 2002						
Category: Ж	A Release: % R98 Use one of the following categories: Use one of the following release 2 (GSM Phase 2) A (corresponds to a correction in an earlier release) R96 (Release 1996) B (addition of feature), R97 (Release 1997) C (functional modification of feature) R98 (Release 1998) D (editorial modification) R99 (Release 1999) Detailed explanations of the above categories can REL-4 (Release 4) be found in 3GPP TR 21.900. REL-5 (Release 5)	es:					
Reason for change	In 09.60, it is stated that only the APN NI is sent from the Source SGSN to t Target SGSN during IRAU. A new S-CDR is opened on the Target SGSN u receipt of notification that an IRAU has been initiated, but the S-CDR does n include the APN OI field. Since this new S-CDR does not contain APN OI, i rejected by the CGF because the APN OI field is mandatory in 12.15. Hence CGF rejects all S-CDR's that are generated for new PDP Contexts after an I	he ipon ot t is e the IRAU.					
Summary of chang	e: # Add APN OI to the information transferred during Inter-SGSN RAU.						
Consequences if not approved:	* PDP Contexts transferred over an IRAU cannot be billed on the Target SGS	5N					
Clauses affected:	¥ 7.9.20						
Other specs affected:	% Other core specifications % Test specifications Ø&M Specifications						
Other comments:	¥						

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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.

7.9.20 PDP Context

The PDP Context information element contains the Session Management parameters, defined for an external packet data network address, that are necessary to transfer between SGSNs at the Inter SGSN Routeing Area Update procedure.

NSAPI is an integer value in the range [0; 15].

The NSAPI points out the affected PDP context.

The SAPI indicates the LLC SAPI which is associated with the NSAPI.

Transaction Identifier is the 4 bit Transaction Identifier used in the GSM 04.08 Session Management messages which control this PDP Context. The latest Transaction Identifier sent from SGSN to MS is stored in the PDP context IE.

Reordering Required (Order) indicates whether the SGSN shall reorder T-PDUs before delivering the T-PDUs to the MS.

VPLMN Address Allowed (VAA) indicates whether the MS is allowed to use the APN in the domain of the HPLMN only, or additionally the APN in the domain of the VPLMN.

Quality of Service Subscribed (QoS Sub), Quality of Service Requested (QoS Req) and Quality of Service Negotiated (QoS Neg) are encoded as described in section 'Quality of Service (QoS) Profile'.

The Sequence Number Down is the number of the next T-PDU that shall be sent from the new SGSN to the MS. The number is associated to the Sequence Number from the GTP Header of an encapsulated T-PDU.

The Sequence Number Up is the number that new SGSN shall use as the Sequence Number in the GTP Header for the next encapsulated T-PDU from the MS to the GGSN.

The Send N-PDU Number is used only when acknowledged peer-to-peer LLC operation is used for the PDP context. The Send N-PDU Number is the N-PDU number to be assigned by SNDCP to the next downlink N-PDU received from the GGSN. It shall be set to 255 if unacknowledged peer-to-peer LLC operation is used for the PDP context.

The Receive N-PDU Number is used only when acknowledged peer-to-peer LLC operation is used for the PDP context. The Receive N-PDU Number is the N-PDU number expected by SNDCP from the next uplink N-PDU to be received from the MS. It shall be set to 255 if unacknowledged peer-to-peer LLC operation is used for the PDP context.

The Uplink Flow Label Signalling is the Flow Label used between the old SGSN and the GGSN in uplink direction for signalling purpose. It shall be used by the new SGSN within the GTP header of the Update PDP Context Request message.

The PDP Type Organization and PDP Type Number are encoded as in the End User Address information element.

The PDP Address Length represents the length of the PDP Address field, excluding the PDP Address Length octet.

The PDP Address is an octet array with a format dependent on the PDP Type. The PDP Address is encoded as in the End User Address information element if the PDP Type is IPv4, IPv6 or X.25.

The GGSN Address Length represents the length of the GGSN Address field, excluding the GGSN Address Length octet.

The old SGSN includes the GGSN Address for signalling that it has received from GGSN at PDP context activation or update.

The APN is the Access Point Name in use in the old SGSN. I.e. the APN sent in the Create PDP Context request message. This APN field shall be composed of the APN Network Identifier part and the APN Operator Identifier part.

The spare bits x indicate unused bits which shall be set to 0 by the sending side and which shall not be evaluated by the receiving side.



Figure 32: PDP Context information element

3GPP TSG CN WG4 Meeting #13 Fort Lauderdale, US, 8th April – 12th April 2002

N4-020341

CR-Form-v5.1									
ж	29.060 CR 312 # rev - ^{# Current version:} 3.12.0 [#]								
For <u>HELP</u> on us	ing this form, see bottom of this page or look at the pop-up text over the \Re symbols.								
Proposed change a	ffects: # (U)SIM ME/UE Radio Access Network Core Network X								
Title: ೫	Addition of APN-OI to Inter-SGSN RAU								
Source: ೫	CN4								
Work item code: %	GTP enhancementsDate: # 26th March 2002								
Category: #	F(essential correction)Release: %R99Use one of the following categories: F (correction)Use one of the following releases: 2(GSM Phase 2)A (corresponds to a correction in an earlier release)R96(Release 1996)B (addition of feature), C (functional modification of feature)R97(Release 1997)C (functional modification)R98(Release 1998)D (editorial modification)R99(Release 1999)Detailed explanations of the above categories can be found in 3GPP TR 21.900.REL-5(Release 5)								
Reason for change:	In 29.060, it is stated that only the APN NI is sent from the Source SGSN to the Target SGSN during IRAU. A new S-CDR is opened on the Target SGSN upon receipt of notification that an IRAU has been initiated, but the S-CDR does not include the APN OI field. Since this new S-CDR does not contain APN OI, it is rejected by the CGF because the APN OI field is mandatory in 32.015. Hence the CGF rejects all S-CDR's that are generated for new PDP Contexts after an IRAU. This problem is limited to R99 – at CN4 #10 (Brighton), CR255 was agreed against 29.060, to solve a different problem. However, the solution added the APN OI to the S-CDR and so the issue does not exist in R4. The R99 version of this CR was rejected however. This CR proposes the same changes as were proposed in CR254.								
Summary of change	e: # Add APN OI to the information transferred during Inter-SGSN RAU.								
Consequences if not approved:	# PDP Contexts transferred over an IRAU cannot be billed on the Target SGSN								
Clauses affected:	¥ 7.7.29								
Other specs affected:	% Other core specifications % Test specifications % O&M Specifications								
Other comments:	ж								

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- 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.

7.7.29 PDP Context

The PDP Context information element contains the Session Management parameters, defined for an external packet data network address, that are necessary to transfer between SGSNs at the Inter SGSN Routeing Area Update procedure.

NSAPI is an integer value in the range [0; 15].

The NSAPI points out the affected PDP context.

The SAPI indicates the LLC SAPI that is associated with the NSAPI.

The Transaction Identifier is the 4 or 12 bit Transaction Identifier used in the 3GPP TS 24.008 Session Management messages which control this PDP Context. If the length of the Transaction Identifier is 4 bit, the second octet shall be set to all zeros. The encoding is defined in 3GPP TS 24.007. The latest Transaction Identifier sent from SGSN to MS is stored in the PDP context IE.

Reordering Required (Order) indicates whether the SGSN shall reorder T-PDUs before delivering the T-PDUs to the MS. When the Quality of Service Negotiated (QoS Neg) is Release 99, the Reordering Required (Order) shall be ignored by receiving entity.

The VPLMN Address Allowed (VAA) indicates whether the MS is allowed to use the APN in the domain of the HPLMN only or additionally the APN in the domain of the VPLMN.

The QoS Sub Length, QoS Req Length and QoS Neg Length represent respectively the lengths of the QoS Sub, QoS Req and QoS Neg fields, excluding the QoS Length octet.

The Quality of Service Subscribed (QoS Sub), Quality of Service Requested (QoS Req) and Quality of Service Negotiated (QoS Neg) are encoded as described in section 'Quality of Service (QoS) Profile'. Their minimum length is 4 octets; their maximum length may be 255 octets.

The Sequence Number Down is the number of the next T-PDU that shall be sent from the new SGSN to the MS. The number is associated to the Sequence Number from the GTP Header of an encapsulated T-PDU. The new SGSN shall ignore Sequence Number Down when the PDP context QoS profile does not require transmission order to be preserved. In this case the new SGSN shall not include Sequence number field in the G-PDUs of the PDP context.

The Sequence Number Up is the number that new SGSN shall use as the Sequence Number in the GTP Header for the next encapsulated T-PDU from the MS to the GGSN. The new SGSN shall ignore Sequence Number Up when the PDP context QoS profile does not require transmission order to be preserved. In this case, the old SGSN shall not include Sequence number field in the G-PDUs of the PDP context.

The Send N-PDU Number is used only when acknowledged peer-to-peer LLC operation is used for the PDP context. Send N-PDU Number is the N-PDU number to be assigned by SNDCP to the next down link N-PDU received from the GGSN. It shall be set to 255 if unacknowledged peer-to-peer LLC operation is used for the PDP context.

The Receive N-PDU Number is used only when acknowledged peer-to-peer LLC operation is used for the PDP context. The Receive N-PDU Number is the N-PDU number expected by SNDCP from the next up link N-PDU to be received from the MS. It shall be set to 255 if unacknowledged peer-to-peer LLC operation is used for the PDP context.

The Uplink Tunnel Endpoint Identifier Control Plane is the Tunnel Endpoint Identifier used between the old SGSN and the GGSN in up link direction for control plane purpose. It shall be used by the new SGSN within the GTP header of the Update PDP Context Request message.

The GGSN Address for User Traffic and the UplinkTunnel Endpoint Identifier Data I are the GGSN address and the Tunnel Endpoint Identifier used between the old SGSN and the GGSN in uplink direction for user plane traffic on a PDP context. They shall be used by the new SGSN to send uplink user plane PDU to the GGSN

The PDP Context Identifier is used to identify a PDP context for the subscriber.

The PDP Type Organisation and PDP Type Number are encoded as in the End User Address information element.

The PDP Address Length represents the length of the PDP Address field, excluding the PDP Address Length octet.

The PDP Address is an octet array with a format dependent on the PDP Type. The PDP Address is encoded as in the End User Address information element if the PDP Type is IPv4 or IPv6.

The GGSN Address Length represents the length of the GGSN Address field, excluding the GGSN Address Length octet.

The old SGSN includes the GGSN Address for control plane that it has received from GGSN at PDP context activation or update.

The APN is the Access Point Name in use in the old SGSN. I.e. the APN sent in the Create PDP Context request message. This APN field shall be composed of the APN Network Identifier part and the APN Operator Identifier part.

The spare bits x indicate unused bits that shall be set to 0 by the sending side and which shall not be evaluated by the receiving side.

1	Type = 130 (Decimal)										
2-3	Length										
4	Res-	VAA	Res-	Ord	NSAPI						
	erved		erve	er							
			d	•							
5	Х	Х	Х	Х	SAPI						
6	QoS Sub Length										
7 - (q+6)		QoS Sub [4255]									
q+7			C	loS Re	q Length						
(q+8)-(2q+7)			Q	oS Red	[4255]						
2q+8			Q	oS Neg	g. Length						
(2q+9)-	QoS Neg [4255]										
(3q+8) (3q+0)		50	auonoc	Numb							
(3q+9)- (3q+10)		Sequence Number Down (SND) ''									
(3q+11)-		Sequence Number Ltp (SNLI) ¹⁾									
(3q+12)	Sequence Number of (SNO)										
3q+13	Send N-PDU Number ¹⁾										
3q+14	Receive N-PDU Number ¹⁾										
(3q+15)- (3q+18)	Uplink Tunnel Endpoint Identifier Control Plane										
(3q+19)-	UplinkTunnel Endpoint Identifier Data I										
(3q+22)		•									
3q+23			PDF	^o Conte	xt Identifier						
3q+24		Spare	1111		PDP Type Organisation						
3q+25			P	DP Туре	e Number						
3q+26			PD	P Addre	ess Length						
(3q+27)-m			PD	P Addr	ess [163]						
m+1		GGSI	N Addre	ess for o	control plane Length						
(m+2)-n		GGS	N Addre	ess for	control plane [416]						
n+1		GGSN Address for User Traffic Length									
(n+2)-o	GGSN Address for User Traffic [416]										
o+1	APN length										
(o+2)-p	APN										
p+1	Spare (sent as 0 0 0 0) Transaction Identifier										
p+2			Tra	nsactio	n Identifier						
Figu	re 43:	PDP (Contex	ct Info	rmation Element						

1) This field shall not be evaluated when the PDP context is received during UMTS intra system handover/relocation.

3GPP TSG CN WG4 Meeting #13 Fort Lauderdale, US, 8th April – 12th April 2002

N4-020328

CHANGE REQUEST									
ж	<mark>29.06</mark>	<mark>0</mark> CR <mark>:</mark>	313	жrе	v -	ж	Current vers	^{sion:} 3.12.0) ^ж
For <u>HELP</u> on us	sing this i	form, see	bottom of	f this page	or look a	at the	e pop-up text	t over the X sy	mbols.
Proposed change a	offects:	¥ (U)S	IM	ME/UE	Radi	io Ac	cess Networ	k Core N	etwork X
Title: ដ	Correct	<mark>ion on the</mark>	handling	of S field					
Source: ೫	CN4								
Work item code: ℜ	GPRS						Date: ೫	22/3/2002	
Category: ೫	F (Ag Use <u>one</u> F (C A (c B (a C (f D (e Detailed o be found	reed by c of the follow correction) corresponds addition of t functional mo editorial mo explanation in 3GPP <u>T</u>	wing categ s to a corre eature), nodificatior dification) is of the at R 21.900.	IS) lories: ection in an n of feature, pove catego	<i>earlier re</i> pries can	lease	Release: # Use <u>one</u> of 2 9) R96 R97 R98 R99 REL-4 REL-5	R99 the following ref (GSM Phase 2, (Release 1996, (Release 1997, (Release 1998, (Release 1999, (Release 4) (Release 5)	leases:))))
Reason for change	:郑 Th ha	ere is an i ndling of S	nconsiste S field due	ency betwe e to mis-in	en R99 plemen	and tatior	later release of a previou	s in the definiti usly approved (on on the CR.
Summary of change	e:	<mark>e definitio</mark>	<mark>n on the l</mark>	<mark>handling o</mark>	<mark>f S field</mark> i	in Er	ror indication	n message was	clarified.
Consequences if not approved:	器 Inc of int	consistenc the seque erworking	y betwee nce num probrem	en Rel99 a ber field in	nd later i Error ind	relea dicati	ses and amb ion message	piguity of the pr e can lead to	esence
Clauses affected:	¥ 9.3	3.1							
Other specs affected:	ж	Other cor Test spec O&M Spe	e specific ifications cification	ations s	ж				
Other comments:	ж								

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- 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.

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 <u>Error Indication</u> 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.