

**Technical Specification Group Services and System Aspects TSGS#13(01)0410
Meeting #13, Beijing, China, 24-27 September 2001**

**3GPP TSG CN WG4 Meeting #08
Dresden, GERMANY, 9th - 13th July 2001**

Tdoc N4-010966

Category: Liaison
From: CN4
To: SA5, SA2
Cc: SA
Title: Reply LS on consistent description regarding the use of Charging Characteristics
CN4 Contact : Kevan Hobbis
Kevan.hobbis@hutchison3g.com

TSG CN WG4 would like to thank TSG SA2 (liaison N4-010820) and TSG SA5 (liaison N4-010906) for their comments on the description of use of charging characteristics.

TSG CN WG4 would like to confirm that they agree with the conclusions of this correspondence between the groups as summarised in the liaison from SA2. In accordance with this conclusion TSG CN4 has drafted CR's to 3GPP TS 29.060 release 99 (CR 244) and release 4 (CR245) to reflect these conclusions.

The two CR's are attached for your information.

CHANGE REQUEST

⌘ **29.060 CR 244** ⌘ rev **1** ⌘ Current version: **3.9.0** ⌘

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:	⌘ Charging Characteristics Inclusion in Create PDP Context Message		
Source:	⌘ Hutchison 3g		
Work item code:	⌘ GTP Enhancements	Date:	⌘ 9-07-2001
Category:	⌘ F (agreed by consensus)	Release:	⌘ R99
	<p>Use <u>one</u> of the following categories:</p> <p>F (correction)</p> <p>A (corresponds to a correction in an earlier release)</p> <p>B (Addition of feature),</p> <p>C (Functional modification of feature)</p> <p>D (Editorial modification)</p> <p>Detailed explanations of the above categories can be found in 3GPP TR 21.900.</p>		<p>Use <u>one</u> of the following releases:</p> <p>2 (GSM Phase 2)</p> <p>R96 (Release 1996)</p> <p>R97 (Release 1997)</p> <p>R98 (Release 1998)</p> <p>R99 (Release 1999)</p> <p>REL-4 (Release 4)</p> <p>REL-5 (Release 5)</p>

Reason for change:	⌘ The current specification is ambiguous which has lead to a number of misunderstandings among TSG WGs (as seen from the LSs exchanged between SA5, SA2 and CN4), and seems to not fulfil operator's requirements regarding charging of roaming users.
Summary of change:	⌘ <u>Rev 1</u> Added text is modified to refer to 23.060 to detail the conditions on inclusion, and 32.015 for detailed contents. Also table is modified to show that the Charging Characteristics IE is Conditional rather than Optional <u>Rev 0</u> Text is added to clarify that the Charging Characteristics are included in the Create PDPD Context Message whenever received from HLR, and regardless of if they are used by SGSN, This applies in roaming case also. It is also noted that 32.015 will have the exact description of operation.
Consequences if not approved:	⌘ The specification remains ambiguous and implementations may not support correct charging in the roaming case.

Clauses affected:	⌘ 2, 7.3.1	
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:

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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.

2 References

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- For a specific reference, subsequent revisions do not apply.
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- [1] 3GPP TR 21.905: "3G Vocabulary".
- [2] 3GPP TS 23.003: "Numbering, addressing and identification".
- [3] 3GPP TS 23.007: "Restoration Procedures".
- [4] 3GPP TS 23.060: "General Packet Radio Service (GPRS); Service Description; Stage 2".
- [5] 3GPP TS 24.008: "Mobile Radio Interface Layer 3 specification; Core Network Protocols-Stage 3".
- [6] 3GPP TS 29.002: "Mobile Application Part (MAP) specification".
- [7] 3GPP TS 25.413: "UTRAN Iu interface RANAP signalling".
- [8] 3GPP TS 33.102: "Security Architecture".
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- [12] STD 0005: "Internet Protocol", J. Postel.
- [13] STD 0006: "User Datagram Protocol", J. Postel.
- [14] RFC 1700: "Assigned Numbers", J. Reynolds and J. Postel.
- [15] RFC 2181: "Clarifications to the DNS Specification", R. Elz and R. Bush.
- [16] 3GPP TS 23.007: "Restoration Procedures".
- [17] 3GPP TS 23.121: "Architectural Requirements for Release 1999".
- [18] [3GPP TS 32.015: Charging and billing ; 3G call and event data for the Packet Switched \(PS\) domain](#)

7.3 Tunnel Management Messages

7.3.1 Create PDP Context Request

A Create PDP Context Request shall be sent from a SGSN node to a GGSN node as a part of the GPRS PDP Context Activation procedure. After sending the Create PDP Context Request message, the SGSN marks the PDP context as 'waiting for response'. In this state the SGSN shall accept G-PDUs from the GGSN but shall not send these G-PDUs to the MS. A valid request initiates the creation of a tunnel between a PDP Context in a SGSN and a PDP Context in a GGSN. If the procedure is not successfully completed, the SGSN repeats the Create PDP Context Request message to the next GGSN address in the list of IP addresses, if there is one. If the list is exhausted the activation procedure fails.

The Tunnel Endpoint Identifier Data I field specifies a downlink Tunnel Endpoint Identifier for G-PDUs which is chosen by the SGSN. The GGSN shall include this Tunnel Endpoint Identifier in the GTP header of all subsequent downlink G-PDUs which are related to the requested PDP context.

The Tunnel Endpoint Identifier Control Plane field specifies a downlink Tunnel Endpoint Identifier for control plane messages which is chosen by the SGSN. The GGSN shall include this Tunnel Endpoint Identifier in the GTP header of all subsequent downlink control plane messages which are related to the requested PDP context. If the SGSN has already confirmed successful assignment of its Tunnel Endpoint Identifier Control Plane to the peer GGSN, this field shall not be present. The SGSN confirms successful assignment of its Tunnel Endpoint Identifier Control Plane the GGSN when it receives any message with its assigned Tunnel Endpoint Identifier Control Plane in the GTP header from the GGSN.

The MSISDN of the MS is passed to the GGSN inside the Create PDP Context Request; This additional information can be used when a secure access to a remote application residing on a server is needed. The GGSN would be in fact able to provide the user identity (i. e. the MSISDN) to the remote application server, providing it with the level of trust granted to users through successfully performing the GPRS authentication procedures, without having to re-authenticate the user at the application level.

If the MS requests a dynamic PDP address and a dynamic PDP address is allowed, then the PDP Address field in the End User Address information element shall be empty. If the MS requests a static PDP Address then the PDP Address field in the End User Address information element shall contain the static PDP Address. In case the PDP addresses carried in the End User Address and optionally in the Protocol Configuration Option information element contain contradicting information, the PDP address carried in the End User Address information element takes the higher precedence. The Quality of Service Profile information element shall be the QoS values to be negotiated between the MS and the SGSN at PDP Context activation.

The SGSN shall include an SGSN Address for control plane and an SGSN address for user traffic, which may differ from that provided by the underlying network service (e.g. IP). The GGSN shall store these SGSN Addresses and use them when sending control plane on this GTP tunnel or G-PDUs to the SGSN for the MS.

The SGSN shall include a Recovery information element into the Create PDP Context Request if the SGSN is in contact with the GGSN for the very first time or if the SGSN has restarted recently and the new Restart Counter value has not yet been indicated to the GGSN. The GGSN that receives a Recovery information element in the Create PDP Context Request message element shall handle it in the same way as when receiving an Echo Response message. The Create PDP Context Request message shall be considered as a valid activation request for the PDP context included in the message.

The SGSN shall include either the MS provided APN, a subscribed APN or an SGSN selected APN in the message; the Access Point Name may be used by the GGSN to differentiate accesses to different external networks. The Selection Mode information element shall indicate the origin of the APN in the message.

For contexts created by the Secondary PDP Context Activation Procedure the SGSN shall include the linked NSAPI. Linked NSAPI indicates the NSAPI assigned to any one of the already activated PDP contexts for this PDP address and APN.

The Secondary PDP Context Activation Procedure may be executed without providing a Traffic Flow Template (TFT) to the newly activated PDP context if all other active PDP contexts for this PDP address and APN already have an associated TFT, otherwise a TFT shall be provided. TFT is used for packet filtering in the GGSN.

When using the Secondary PDP Context Activation Procedure, the Selection mode, IMSI, MSISDN, End User Address, Access Point Name and Protocol Configuration Options information elements shall not be included in the message.

The optional Protocol Configuration Options information element is applicable for the end user protocol 'IP' only.

The SGSN shall select one GGSN based on the user provided or SGSN selected APN. The GGSN may have a logical name that is converted to an address. The conversion may be performed with any name-to-address function. The converted address shall be stored in the "GGSN Address in Use" field in the PDP context and be used during the entire lifetime of the PDP context.

NOTE: A DNS query may be used as the name-to-IP address mapping of the GGSN. The IP address returned in the DNS response is then stored in the "GGSN Address in Use" field in the PDP context.

The IMSI information element together with the NSAPI information element uniquely identifies the PDP context to be created.

The SGSN may send a Create PDP Context Request even if the PDP context is already active.

The GGSN shall check if the PDP context already exists for the MS. The existing parameters in the PDP context shall then be replaced with the parameters in the Create PDP Context Request message. If a dynamic PDP address has already been allocated for the existing context, this address should be used and copied to the Create PDP Context Response message.

If the GGSN uses the MNRG flag and the flag is set, the GGSN should treat the Create PDP Context Request as a Note MS Present Request and clear the MNRG flag.

The SGSN shall determine Charging Characteristics from the Subscribed Charging Characteristics and/or PDP Context Charging Characteristics depending on the presence of the information in the Packet Domain Subscription Data as defined in 3G TS 23.060 [4]. [The requirements for the presence of the Charging Characteristics IE are defined in 3G TS 23.060 \[4\]. The contents of the Charging Characteristics IE are defined in 3G TS 32.015 \[17\].](#)

The SGSN shall include Trace Reference, Trace Type, Trigger Id, and OMC Identity in the message if GGSN trace is activated. The SGSN shall copy Trace Reference, Trace Type, and OMC Identity from the trace request received from the HLR or OMC.

The optional Private Extension contains vendor or operator specific information.

Table 5: Information Elements in a Create PDP Context Request

Information element	Presence requirement	Reference
IMSI	Conditional	7.7.2
Recovery	Optional	7.7.11
Selection mode	Conditional	7.7.12
Tunnel Endpoint Identifier Data I	Mandatory	7.7.13
Tunnel Endpoint Identifier Control Plane	Conditional	7.7.14
NSAPI	Mandatory	7.7.17
Linked NSAPI	Conditional	7.7.17
Charging Characteristics	OptionalConditional	7.7.23
Trace Reference	Optional	7.7.24
Trace Type	Optional	7.7.25
End User Address	Conditional	7.7.27
Access Point Name	Conditional	7.7.30
Protocol Configuration Options	Conditional	7.7.31
SGSN Address for signalling	Mandatory	GSN Address 7.7.32
SGSN Address for user traffic	Mandatory	GSN Address 7.7.32
MSISDN	Conditional	7.7.33
Quality of Service Profile	Mandatory	7.7.34
TFT	Conditional	7.7.36
Trigger Id	Optional	7.7.41
OMC Identity	Optional	7.7.42
Private Extension	Optional	7.7.44

CR-Form-v4

CHANGE REQUEST

⌘ **29.060 CR 245** ⌘ rev **1** ⌘ Current version: **4.1.0** ⌘

For **HELP** on using this form, see bottom of this page or look at the pop-up text over the ⌘ symbols.

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Source:	⌘ Hutchison 3g		
Work item code:	⌘ GTP Enhancements	Date:	⌘ 9-07-2001
Category:	⌘ A	Release:	⌘ REL-4
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)	

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Summary of change:	⌘ <u>Rev 1</u> Added text is modified to refer to 23.060 to detail the conditions on inclusion, and 32.015 for detailed contents. Also table is modified to show that the Charging Characteristics IE is Conditional rather than Optional <u>Rev 0</u> Text is added to clarify that the Charging Characteristics are included in the Create PDPD Context Message whenever received from HLR, and regardless of if they are used by SGSN, This applies in roaming case also. It is also noted that 32.215 will have the exact description of operation.
Consequences if not approved:	⌘ The specification remains ambiguous and implementations may not support correct charging in the roaming case.

Clauses affected:	⌘ 2, 7.3.1	
Other specs affected:	⌘ <input type="checkbox"/> Other core specifications	⌘ <input type="checkbox"/>
	<input type="checkbox"/> Test specifications	<input type="checkbox"/>
	<input type="checkbox"/> O&M Specifications	<input type="checkbox"/>
Other comments:	⌘ Title of 32.215 needs to be checked in references	

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Linked NSAPI	Conditional	7.7.17
Charging Characteristics	Conditional Optional	7.7.23
Trace Reference	Optional	7.7.24
Trace Type	Optional	7.7.25
End User Address	Conditional	7.7.27
Access Point Name	Conditional	7.7.30
Protocol Configuration Options	Conditional	7.7.31
SGSN Address for signalling	Mandatory	GSN Address 7.7.32
SGSN Address for user traffic	Mandatory	GSN Address 7.7.32
MSISDN	Conditional	7.7.33
Quality of Service Profile	Mandatory	7.7.34
TFT	Conditional	7.7.36
Trigger Id	Optional	7.7.41
OMC Identity	Optional	7.7.42
Private Extension	Optional	7.7.44