3GPP TSG CN Plenary Meeting #18 **NP-020627**
4th - 6th December 2002. New Orleans, USA.

Source: TSG CN WG3

Title: CRs on Rel5 Work Item e2eQoS (CR Pack 8)

Agenda item: 8.5

Document for: APPROVAL

Introduction:

This document contains **4** CRs on **Rel-5 WI e2eQoS**.

These CRs have been agreed by TSG CN WG3 and are forwarded to TSG CN Plenary meeting #18 for approval.

WG_tdoc	Title	Spec	CR	Rev	Cat	Rel	Version
N3-020843	IMS related functions for the UE	27.060	028	1	F	Rel-5	5.2.0
N3-020929	Multiplexing IMS media components to PDP contexts	27.060	077		F	Rel-5	5.2.0
N3-021016	Editorial improvments and an error correction	27.060	078	1	F	Rel-5	5.2.0
N3-021017	Policy control rejection of PDP context	27.060	079	1	F	Rel-5	5.2.0

3GPP TSG-CN WG3 Meeting #25
Miami, USA, 23rd - 27th September 2002.

Tdoc ⌘N3-020843

CR-Form-v7

CHANGE REQUEST

⌘ **27.060** **CR** **028** ⌘ **rev** **1** ⌘ Current version: **5.2.0** ⌘

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

Proposed change affects: UICC apps⌘ [ ] ME [X] Radio Access Network [ ] Core Network [ ]

Title:	⌘	IMS related functions for the UE
Source:	⌘	TSG_CN WG3
Work item code:	⌘	e2eQoS
Date:	⌘	23.09.2002
Category:	⌘	**F**
Release:	⌘	REL-5

Use one 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 one 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)*
Rel-6	*(Release 6)*

Reason for change:	⌘	27.060 CR 024r2 was approved in TSGN #17 as part of document NP-020409. That CR introduced some conflicts with already existing requirements by redefining procedures, which are already defined in 24.229 and 29.061.
Summary of change:	⌘	Redefined procedural descriptions are replaced with references to the already existing procedures in other 3GPP TSs.
Consequences if not approved:	⌘	Duplicated stage 3 procedure definitions may lead in conflicting requirements. This has actually happened already since the usage of signalling PDP context is incorrect (signalling PDP context is not limited to SIP signalling only), see 24.229.

Clauses affected:	⌘	Clause 13

Other specs affected: ⌘

Y	N	
	X	Other core specifications
	X	Test specifications
	X	O&M Specifications

⌘

Other comments: ⌘

How to create CRs using this form:
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Below is a brief summary:

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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 downloadbed 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.

13 IMS related functions

13.1 General

IP Multimedia Core Network Subsystem (IMS) related functions affects the way the MS sets up some Session Management information elements when activating or modifying PDP context(s). The functionality also includes rules for mapping IMS media flows to PDP contexts.

IMS is based on IETF protocols with SIP as described in RFC 3261 [54] as the framework. Example signalling flows can be found in 3GPP TS 24.228 [50], while differences between standard SIP and IMS are specified in 3GPP TS 24.229 [51].

GPRS aspects within the MS when connected to IMS are specified in 3GPP TS 24.229 [51], while the corresponding functionality within the GGSN, PCF and P-CSCF is specified in 3GPP TS 29.061 [17] and 3GPP TS 29.207 [52]. Encoding of the session management information elements relevant for IMS are specified in 3GPP TS 24.008 [12].

Mapping of SDP to QoS attributes and authorisation of QoS attributes is specified in 3GPP TS 29.208 [53].

13.2 DNS Server Discovery

The MS ~~may~~can request a DNS Server IPv6 address(es) via IETF DHCPv6 [55] request/response signalling or by using the Protocol Configuration Option information element when requesting~~activating a~~ PDP context activation. These procedures are defined in 3GPP TS 29.061 [17].

13.3 P-CSCF Server Discovery

The MS ~~may~~can request a P-CSCF IPv6 address(es) for SIP signalling via normal IETF DHCPv6 request/response signalling in combination with normal IETF DNS request/response signalling or by using the Protocol Configuration Option information element when requesting~~activating a~~ PDP context activation. The P-CSCF discovery procedure is defined in 3GPP TS 24.229 [51].

13.4 IM CN Subsystem Signalling Flag

Before the MS can request IM services, a PDP context ~~shall be~~is activated to carry the SIP signalling. This PDP context can be for ~~SIP related~~ signalling only or a general-purpose PDP context (may also carry the media). Whether the PDP context is for signalling only or a general-purpose PDP context is signalled to the GGSN when activating the PDP context by the usage of the IM CN subsystem signalling flag as specified in 3GPP TS 24.229 [51].

13.5 Binding Information

The MS ~~shall~~ supports the binding mechanism for service-based local policy~~e~~ control. As specified in 3GPP TS 24.229 [51], the network can request the MS to include binding information in its request to activate or modify a PDP context intended to carry IMS media flow(s). ~~The MS shall, if requested by the network in the SIPsignalling, include one or more sets of binding information when activating or modifying a PDP context intended to carry IMS media flow(s).~~ The binding information consists of an authorization token and one or more flow identifier(s) the MS decides to put on the same PDP context, e.g. due to the same QoS requirements for those IMS media flows. The flow identifier identifies an IMS media flow within the current session and is derived from SDP. The authorization token and the flow identifier are described in 3GPP TS 24.229 [51] and 3GPP TS 29.207 [52].

If the UE includes binding information, the UE shall populate the TFT filters with wildcard values.

13.6 Mapping of SDP to QoS Attributes

The type of application and the users choice of perceived quality are often fully enough information to set the requested QoS attributes when activating or modifying the PDP context(s) carrying the applications IMS media flow(s). However,

if the application receives certain SDP parameters, it is recommended that the MS takes guidance and map some of the SDP parameters, e.g. b=AS:<bandwidth-value>, to the corresponding requested QoS attributes, e.g. Maximum and Guaranteed Bitrate for uplink and downlink. The rules for mapping SDP parameters to QoS attributes are described in 3GPP TS 29.208 [53].

13.7 Authorization of QoS Attributes

If the PDP context is activated or modified it is recommended that the MS checks that the values of some requested QoS attributes, e.g. Guaranteed Bitrate Uplink and Downlink, do not exceed the values of the corresponding Maximum Authorized QoS attributes, e.g. Maximum Authorized Bandwidth uplink and downlink. The values of the Maximum Authorized QoS attributes are derived from the SDP parameters of the IMS media flows identified. The rules for deriving the Maximum Authorized QoS attributes per IMS media flow and per PDP context are described in 3GPP TS 29.208 [53].

13.8 Support for forking

A UE originating a SIP session ~~shall be~~is able to handle several forked responses. Forking ~~may~~can occur in a downstream SIP proxy outside the 3GPP network. In case of service-based local policy, the same authorization token is received for all the forked responses for that session.

~~For every forked response the UE shall reserve additional bearer resources if, and only if, such resources have not already been reserved by a previously received forked response for the same session. When the first final answer is received, the UE shall terminate all the other early dialogues and release the resources that are no longer required. This may imply that non-required PDP contexts are deactivated and the remaining PDP contexts are updated (i.e. removal of IP flows, downgrading of QoS) to match the requirements of the first final answer.~~

~~On the terminating side, if a UE receives several forked requests for the same session, it shall accept the first request and proceed to set up the corresponding SIP session. Subsequent requests for the same session shall be rejected.~~

Detailed call control procedures for forking are specified in 3GPP TS 24.229 [51]. Specific procedures related to the Go interface are specified in 3GPP TS 29.207 [52] and 3GPP TS 29.208 [53].

End of modified sections

33GPP TSG-CN WG3 Meeting #26 ***Tdoc ⌘N3-020929***
Bangkok, Thailand, 11th - 15th November 2002.

CR-Form-v7

CHANGE REQUEST

⌘ **27.060** **CR** **077** ⌘ **rev** **-** ⌘ Current version: **5.2.0** ⌘

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Proposed change affects: UICC apps⌘ [ ] ME [X] Radio Access Network [ ] Core Network [ ]

Title:	⌘	Multiplexing IMS media components to PDP contexts
Source:	⌘	TSG_CN WG3
Work item code:	⌘	E2eQoS
Date:	⌘	31/10/2002
Category:	⌘	**F**
Release:	⌘	REL-5

Use one 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 one 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)*
Rel-6	*(Release 6)*

Reason for change:	⌘	In Rel-5 IMS can order the UE to multiplex IMS media components within the same session on the same PDP context. Therefore this fuction shall be listed as an IMS related functions affecting how the UE handle PDP contexts.
Summary of change:	⌘	A new subclause 13.x "Multiplexing of IMS media components to PDP contexts" has been added.
Consequences if not approved:	⌘	Incomplete listing of IMS related functions affecting how the UE handle PDP contexts.

Clauses affected:	⌘	13.1 and a new subclause 13.x is added.

	Y	N			
Other specs Affected:	X		Other core specifications	⌘	24.229
		X	Test specifications		
		X	O&M Specifications		

Other comments:	⌘	This CR can only be presented after CN1 has accept to add the corresponding function to TS 24.229.

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

First amended section

13.1 General

IP Multimedia Core Network Subsystem (IMS) related functions affects the way the MS sets up some Session Management information elements when activating or modifying PDP context(s). The functionality also includes rules for ~~mapping~~ multiplexing IMS media ~~flows~~ components to PDP contexts.

IMS is based on IETF protocols with SIP as described in RFC 3261 [54] as the framework. Example signalling flows can be found in 3GPP TS 24.228 [50], while differences between standard SIP and IMS are specified in 3GPP TS 24.229 [51].

GPRS aspects within the MS when connected to IMS are specified in 3GPP TS 24.229 [51], while the corresponding functionality within the GGSN, PCF and P-CSCF is specified in 3GPP TS 29.061 [17] and 3GPP TS 29.207 [52]. Encoding of the session management information elements relevant for IMS are specified in 3GPP TS 24.008 [12].

Mapping of SDP to QoS attributes and authorisation of QoS attributes is specified in 3GPP TS 29.208.

Next amended section

13.x Multiplexing of IMS media components to PDP contexts

The IMS network may use the SDP attribute “a=group:SRF” to order the MS to multiplex certain IMS media components within the same session on the same PDP context. If this attribute is not present then multiplexing the media components on PDP contexts is entirely MS specific. However, IMS media components belonging to different sessions will be multiplexed on separate PDP contexts. The rules for multiplexing IMS media components to PDP contexts are specified in 3GPP TS 24.229 [51].

End of amended sections

3GPP TSG-CN WG3 Meeting #26 ***Tdoc ⌘N3-021016***
Bangkok, Thailand, 11th - 15th November 2002.

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CHANGE REQUEST

⌘ **27.060** **CR** **078** ⌘ **rev** **1** ⌘ Current version: **5.2.0** ⌘

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Proposed change affects: UICC apps⌘ [ ] ME [X] Radio Access Network [ ] Core Network [ ]

Title:	⌘	Editorial improvements and errors corrections.
Source:	⌘	TSG_CN WG3
Work item code:	⌘	e2eQoS
Date:	⌘	31/10/2002
Category:	⌘	**F**
Release:	⌘	Rel-5

Use one 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 one of the following releases:

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R96	*(Release 1996)*
R97	*(Release 1997)*
R98	*(Release 1998)*
R99	*(Release 1999)*
Rel-4	*(Release 4)*
Rel-5	*(Release 5)*
Rel-6	*(Release 6)*

Reason for change:	⌘	Editorial improvements and error corrections.
Summary of change:	⌘	1. Adding 'QoS' to the list of abbreviations, 2. use verbal forms as recommended by TR 21.801, 3. terminology in line with TS 29.207, 4. an error correction in subclause 13.1 and 5. an error correction in subclause 13.4.
Consequences if not approved:	⌘	TS 27.060 will contain inaccuracies and use different terminology than what is used in TS 29.207.

Clauses affected:	⌘	3.2, 13.1, 13.2, 13.3, 13.4, 13.5, 13.6, 13.7, 13.8

Other specs affected: ⌘	Y	N	
		X	Other core specifications
		X	Test specifications
		X	O&M Specifications

⌘

Other comments:	⌘	

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First amended section

3.2 Abbreviations

For the purposes of the present document, the following abbreviations apply:

APN	Access Point Name
DHCPv6	Dynamic Host Configuration Protocol Ipv6
DNS	Domain Name System
GGSN	Gateway GPRS Support Node
GPRS	General Packet Radio Service
GSN	GPRS Support Node
GTP-U	GPRS Tunnelling Protocol for user plane
HDLC	High Level Data Link Control
ICMP	Internet Control Message Protocol
IETF	Internet Engineering Task Force
IMS	IP Multimedia Core Network Subsystem
IP	Internet Protocol
IPv4	Internet Protocol version 4
IPv6	Internet Protocol version 6
IPV6CP	IPv6 Control Protocol
LA	Location Area
LCP	Link Control Protocol
LLC	Logical Link Control
MAC	Medium Access Control
MCML	Multi-Class Multi-Link PPP
ME	Mobile Equipment
MP	Multilink PPP
MS	Mobile Station
MT	Mobile Termination
NCP	Network Control Protocol
PCF	Policy Control Function
P-CSCF	Proxy Call Session Control Function
PDCP	Packet Data Convergence Protocol
PDN	Packet Data Network
PDP	Packet Data Protocol , e.g., IP or PPP
PDU	Protocol Data Unit
PPP	Point-to-Point Protocol
PS	Packet Switched
PTM	Point To Multipoint
PTP	Point To Point
PVC	Permanent Virtual Circuit
QoS	Quality of Service
RA	Routing Area
SDP	Session Description Protocol
SGSN	Serving GPRS Support Node
SIP	Session Initiation Protocol
SNDCP	SubNetwork Dependent Convergence Protocol
TCP	Transmission Control Protocol
TE	Terminal Equipment
TFT	Traffic Flow Template
UDP	User Datagram Protocol

Next amended section

13.1 General

IP Multimedia Core Network Subsystem (IMS) related functions affects the way the MS sets up some Session Management information elements when activating or modifying PDP context(s). ~~The functionality also includes rules for mapping IMS media flows to PDP contexts.~~

IMS is based on IETF protocols with SIP as described in RFC 3261 [54] as the framework. Example signalling flows can be found in 3GPP TS 24.228 [50], while differences between standard SIP and IMS are specified in 3GPP TS 24.229 [51].

GPRS aspects within the MS when connected to IMS are specified in 3GPP TS 24.229 [51], while the corresponding functionality within the GGSN, PCF and P-CSCF is specified in 3GPP TS 29.061 [17] and 3GPP TS 29.207 [52]. Encoding of the session management information elements relevant for IMS are specified in 3GPP TS 24.008 [12].

Mapping of SDP to QoS attributes and authorisation of QoS attributes is specified in 3GPP TS 29.208.

Next amended section

13.2 DNS Server Discovery

In IMS t~~T~~he MS ~~may~~ can request a DNS Server IPv6 address(es) via normal IETF DHCPv6 [55] request/response signalling or by using the Protocol Configuration Option information element when activating a PDP context. The corresponding procedure is specified in 3GPP TS 29.061 [17].

Next amended section

13.3 P-CSCF Server Discovery

In IMS t~~T~~he MS ~~may~~ can request a P-CSCF IPv6 address(es) for SIP signalling via normal IETF DHCPv6 request/response signalling in combination with normal IETF DNS request/response signalling or by using the Protocol Configuration Option information element when activating a PDP context. The P-CSCF discovery procedure is specified in 3GPP TS 24.229 [51].

Next amended section

13.4 IM CN Subsystem Signalling Flag

Before the MS can request IM services, a PDP context ~~shall be~~is activated to carry the ~~SIP~~ IMS signalling. This PDP context can be for ~~SIP related~~ IMS signalling only or a general-purpose PDP context (i.e. may also carry the media). ~~Whether~~ T~~t~~he MS can request that a PDP context is for IMS signalling only ~~or a general-purpose PDP context is signalled to the GGSN when activating the PDP context by the usage of~~ by setting the IM CN subsystem signalling flag in the Protocol Configuration Option information element when activating a PDP context. The corresponding procedure is specified in 3GPP TS 24.229 [51].

Next amended section

13.5 Binding Information

The MS supports the binding mechanism for service-based local ~~police~~ policy control. ~~The MS shall, if requested by the network in the SIPsignalling, include one or more sets of binding information~~When an authorization token is included in an IMS SIP message, the MS will include binding information in the Traffic Flow Template information element when activating or modifying a PDP context intended to carry certain IMS ~~media~~ IP flow(s). The binding information consists of ~~an~~ the authorization token and ~~one or more~~ the flow identifier(s) of the IMS IP flow(s) the MS ~~decides to~~ puts on the same PDP context, e.g. due to the same QoS requirements for those IMS ~~media~~ IP flows. ~~The flow identifier identifies an IMS media flow within the current session and is derived from SDP.~~ The authorization token and the flow identifier are ~~described~~ specified in ~~3GPP TS 24.229 [51] and~~ 3GPP TS 29.207 [52].

If the ~~UE~~ MS includes binding information, ~~the UE~~ it shall populate the TFT filters with wildcard values.

Next amended section

13.6 Mapping of SDP to QoS Attributes

The type of application and the users choice of perceived quality are often fully enough information to set the requested QoS attributes when activating or modifying the PDP context(s) carrying the applications IMS ~~media~~ IP flow(s). However, if the application receives ~~certain~~ SDP parameters, ~~it is recommended that~~ the MS can take~~s~~ guidance and map some of the SDP parameters, e.g. b=AS:<bandwidth-value>, to the corresponding requested QoS attributes, e.g. Maximum and Guaranteed Bitrate for uplink and downlink. The rules for mapping SDP parameters to QoS attributes are ~~described~~ specified in 3GPP TS 29.208 [53].

Next amended section

13.7 Authorization of QoS Attributes

~~If~~ When the PDP context is activated or modified ~~it is recommended that~~ the MS can check~~s~~ that the values of some requested QoS attributes, e.g. Guaranteed or Maximum Bitrate u~~U~~plink and d~~D~~ownlink, do not exceed the values of the corresponding Maximum Authorized QoS attributes, e.g. Maximum Authorized Bandwidth uplink and downlink. The values of the Maximum Authorized QoS attributes are derived from the SDP parameters of the IMS media components~~flows~~ identified. The rules for deriving the Maximum Authorized QoS attributes per IMS media ~~flow~~ component and per PDP context are ~~described~~ specified in 3GPP TS 29.208 [53].

Next amended section

13.8 Support for forking

A ~~UE~~ MS originating a SIP session shall be able to handle several forked responses. Forking can occur in a downstream SIP proxy outside the 3GPP network. In case of service-based local policy, the same authorization token is received for all the forked responses for that session.

For every forked response the UE shall reserve additional bearer resources if, and only if, such resources have not already been reserved by a previously received forked response for the same session. When the first final answer is received, the UE shall terminate all the other early dialogues and release the resources that are no longer required. This may imply that non-required PDP contexts are deactivated and the remaining PDP contexts are updated (i.e. removal of IP flows, downgrading of QoS) to match the requirements of the first final answer.

On the terminating side, if a UE receives several forked requests for the same session, it shall accept the first request and proceed to set up the corresponding SIP session. Subsequent requests for the same session shall be rejected.

Detailed call control procedures for forking are specified in 3GPP TS 24.229 [51]. Specific procedures ~~related to~~ for setting the Maximum Authorized QoS attributes in relation to several forked responses ~~the Go interface~~ are specified in 3GPP TS 29.207 [52] and 3GPP TS 29.208 [53].

End of amended sections

3GPP TSG-CN WG3 Meeting #26
Bangkok, Thailand, 11th - 15th November 2002.

Tdoc ⌘N3-021017

CR-Form-v7

CHANGE REQUEST

⌘ **27.060** **CR** **079** ⌘ **rev** **1** ⌘ Current version: **5.2.0** ⌘

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

Proposed change affects: UICC apps⌘ [ ] ME [X] Radio Access Network [ ] Core Network [ ]

Title:	⌘	Policy control rejection of PDP context.
Source:	⌘	TSG_CN WG3
Work item code:	⌘	e2eQoS
Date:	⌘	31/10/2002
Category:	⌘	**F**
Release:	⌘	Rel-5

Use one of the following categories:
F *(correction)*
A *(corresponds to a correction in an earlier release)*
B *(addition of feature),*
C *(functional modification of feature)*
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Detailed explanations of the above categories can be found in 3GPP TR 21.900.

Use one 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)*
Rel-6	*(Release 6)*

Reason for change:	⌘	In Rel-5 the GGSN can reject a PDP context activation or modification because of errors related to service based local policy. Therefore this function shall be listed as an IMS related function affecting how the UE handle PDP contexts.
Summary of change:	⌘	A new subclause 13.y "Policy control rejection of PDP context" has been added.
Consequences if not approved:	⌘	Incomplete listing of IMS related functions affecting how the UE handle PDP contexts.

Clauses affected:	⌘	A new subclause 13.y is added.

	Y	N		
Other specs affected: ⌘		X	Other core specifications	⌘
		X	Test specifications	
		X	O&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.

First amended section

13.y Policy control rejection of PDP context

The GGSN rejects a PDP context activation or modification if service-based local policy cannot be exercised, e.g. erroneous binding information, or will not be exercised, e.g. binding information available although the current APN is not subject for policy control. The GGSN puts the actual Policy Control rejection code in the Protocol Configuration Option information element in the rejection message. An MS receiving a rejection message shall check the Protocol Configuration Option information element and take proper action.

The rejection cases as well as the Policy Control rejection codes are specified in 3GPP TS 29.207 [52]. Rules for the MS when receiving policy control rejections of a PDP context activation or modification are specified in 3GPP TS 24.229 [51].

End of amended sections