3GPP TSG-CN Meeting #26 8th – 10th December 2004. Athens, Greece.

Source:	TSG CN WG3
Title:	CRs to Rel-5 on Work Item "End-to-End QoS"
Agenda item:	8.5
Document for:	APPROVAL

Introduction:

This document contains 5 CRs to Rel-6 on Work Item "QoS1" that have been agreed by TSG CN WG3, and are forwarded to TSG CN Plenary for approval.

WG_tdoc	Spec	CR	R	Cat	Title	Rel	C_Ver	Work Item
N3- 040814	29.208	077	1	-	Authorize QoS resources with no generation of authorization token at session modification	Rel- 5	5.8.0	E2EQoS
N3- 040815	29.208	081	1	F	Removal of QoS commit for session modification	Rel- 5	5.8.0	E2EQoS
N3- 040893	29.208	082	3	A	Removal of QoS commit for session modification	Rel- 6	6.1.0	E2EQoS
N3- 040864	29.208	089	1	F	Modification of PDP contexts	Rel- 5	5.8.0	E2EQoS
N3- 040865	29.208	090	1	A	Modification of PDP contexts	Rel- 6	6.1.0	E2EQoS

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			CHAN	GE F	REQ	UE	ST	I				CR-Form-v7
ж	29.2	<mark>08</mark> CI	R <mark>077</mark>	ж	rev	1	Ħ	Curren	t versi	ion:	5.8.0	ж
For <u>HELP</u> on	using this	s form, s	see bottom c	of this pa	age or	look	at the	e pop-up	o text	over	the	mbols.
Proposed change	e affects:	UICO	C apps೫]	ME	Rac	dio A	ccess N	etwor	k	Core Ne	etwork X
Title:	[#] Author modifie		S resource	es with r	no gei	nerat	ion c	of autho	orizati	on to	oken at s	ession
Source:	₩ <mark>Orang</mark>	je										
Work item code:	₩ <mark>E2EQ</mark>	OS						Da	te:	19/	11/2004	
Category:	F A B C D Detailed	(correction (corresp (addition (function (editorian explana	following cates on) onds to a com of feature), nal modification I modification, ations of the a P <u>TR 21.900</u> .	rection ir on of feat) above ca	ure)		elease	2 (7) R9 R9 R9 R9 R9 R6 R6	96 97 98 99 99 9-1-4	the fo (GSN (Rele (Rele (Rele (Rele (Rele	L-5 Ilowing rel 1 Phase 2) ase 1996) ase 1998) ase 1999) ase 4) ase 5) ase 6)	
Reason for chang	ne: [#] It	is an es	sential cor	rection						1.10/0		

Reason for change: #	It is an essential correction.
	Currently, the "Authorize QoS resources" procedure applies at session establishment or session modification. In case the session is modified, there is no need to send an authorization token to the UE because one is already affected for the session.
	As stated in TS 29.207
	Section 4.3.2.1: Generation of authorisation token:
	"During the session set-up the PDF generates an authorisation token for the IMS session."
	Section 4.3.2.3:
	"The authorisation token is applied by the PDF to identify the IMS session."
Summary of change: ೫	In section 4 detailing the 'Authorize QoS resources" procedure, the authorization token is generated only in case the 'Authorize QoS resources' procedure is performed at session establishment.
-	Inconsistency with TS 29.207
not approved:	Several authorization tokens coexist for a same session, breaking the rule that one token is used for one session.

CR	page	2
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Clauses affected: Other specs affected:	# 4 # X Other core specifications # X Test specifications X O&M Specifications
Other comments:	ж

How to create CRs using this form:

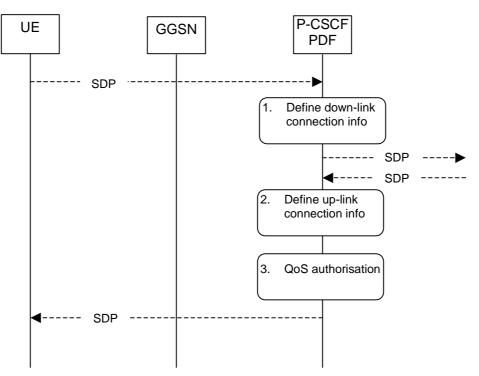
Comprehensive information and tips about how to create CRs can be found at <u>http://www.3gpp.org/specs/CR.htm</u>. Below is a brief summary:

- 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.

4 Authorize QoS resources

4.1 Authorize QoS resources at originating PDF

This clause covers the Authorize QoS resources procedure at the originating PDF at IMS session establishement and modification.

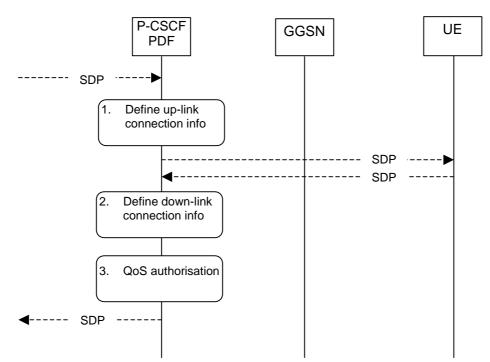


- 1. The P-CSCF(PDF) gets the SDP parameters defined by the originator and identifies the connection information needed (IP address of the down link IP flow(s), port numbers to be used etc...).
- 2. The P-CSCF(PDF) gets the negotiated SDP parameters from the terminating side through SIP signalling interaction. The P-CSCF(PDF) identifies the connection information needed (IP address of the up-link media IP flow(s), port numbers to be used etc...).
- 3. The P-CSCF(PDF) uses the SDP parameters in order to define the QoS resource authorisation. The PDF authorises every component negotiated for the session. The authorization shall be expressed in terms of IP QoS parameters. If <u>In case the 'Authorize QoS resources' procedure is performed at session</u> establishment, <u>a</u>An authorization token is generated by the PDF and sent to the UE.

Figure 4.1: Authorize QoS resources at originating PDF

4.2 Authorize QoS resources at terminating PDF

This clause covers the Authorize QoS resources procedure at the terminating PDF at IMS session establishement and modification.



- 1. The P-CSCF(PDF) gets the SDP parameters defined by the originator and identifies the connection information needed (IP address of the up-link IP flow(s), port numbers to be used etc...). <u>In-caseIf the 'Authorize QoS resources' procedure is performed at session establishment, a</u>An authorization token is generated by the PDF and sent to the UE.
- 2. The P-CSCF(PDF) receives the negotiated SDP parameters from the UE. The P-CSCF(PDF) identifies the connection information needed (IP address of the down-link IP flow(s), port numbers to be used etc...).
- 3. The P-CSCF(PDF) uses the SDP parameters in order to define the QoS resource authorisation. The PDF authorises every IP flow of a media component negotiated for the session. The authorization shall be expressed in terms of IP QoS parameters.

Figure 4.2: Authorize QoS resources at terminating PDF

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For <u>HELP</u> on u	sing this form	, see bottom of	this page or	look at the	e pop-up text	over the ೫ sy	mbols.
Proposed change a	affects: UI	CC apps ೫ <mark>─</mark>	ME	Radio Ac	ccess Networl	k Core Ne	etwork X
Title: ೫	Modification	of PDP context	S				
Source: ೫	Orange						
Work item code: Ж	E2EQOS				<i>Date:</i>	19/11/2004	
Category: ₩	F (correc A (correc B (additi C (functi D (editor Detailed expla	e following categ stion) sponds to a corre- on of feature), onal modificatior ial modification) nations of the at GPP <u>TR 21.900</u> .	ection in an ear n of feature)		2 R96 R97 R98 R99 Rel-4 Rel-5	REL-6 the following rel (GSM Phase 2) (Release 1996) (Release 1997) (Release 1999) (Release 4) (Release 5) (Release 6)	
Reason for change:	쁐 <mark>It is an</mark> (essential corr	ection.				
	The GG whateve The GG In partic break of context preserve downlind PDP Co 0 kbit/s The treat	SN may receiver the modificat SN is not able ular, the RNC of the radio conr is using stream ed, but the max () when the ass ntext Request in the GGSN.	ion is request to detect whe can request th nection or due ting or conver- timum bit rate sociated RAB message to t	ted by the ether the re he modific to user in rsational tr is downg is release he GGSN and PDF in	UE or the net equest is initia ation of PDP nactivity. In the raffic class, the raded to 0 kb ed. The SGSN to set the ma	twork (SGSN, ated by the UE context e.g. dr at case, if the e PDP contex it/s (for both u N sends an Up aximum bit rate	RAN). ue to a PDP t is plink and odate e to
Summary of chang	je:	fication of PDP	context' QoS	S procedur	es,		
		"Indication of F streaming or c					

"Authorization of PDP context modification" applies in all other cases, i.e. not only on UE request.

% Conditions for triggering of "Authorization of PDP context modification" and Consequences if

not approved: "Indication of PDP context modification" are not completely specified.

Clauses affected:	策 <mark>6.5</mark>
	ΥΝ
Other specs affected:	# X Other core specifications # X Test specifications X O&M Specifications
Other comments:	ж

How to create CRs using this form:

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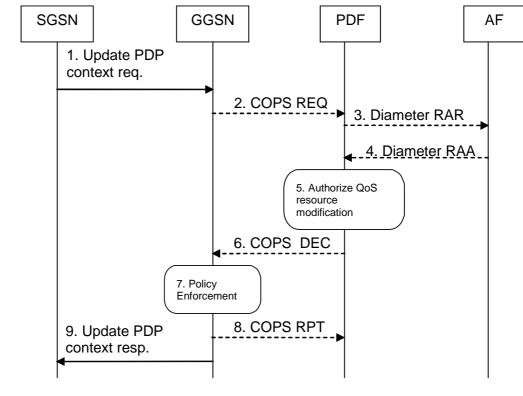
- 1) Fill out the above form. The symbols above marked **#** contain pop-up help information about the field that they are closest to.
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6.5 Modification of PDP Context

The "Modification of PDP Context" procedure is used when a PDP Context is modified such that the requested QoS falls outside of the limits that were authorized at PDP context activation (or last modification) or such that the maximum bit rate (downlink and uplink) is downgraded to 0 kbit/s. In these cases, the GGSN communicates with the PDF as described below.

6.5.1 Authorization of PDP Context Modification

Figure 6.5.1 presents the "Modification of PDP Context" when the UMTS QoS which were authorized at PDP context activation (or last modification) has been changed by UE.



Legend:

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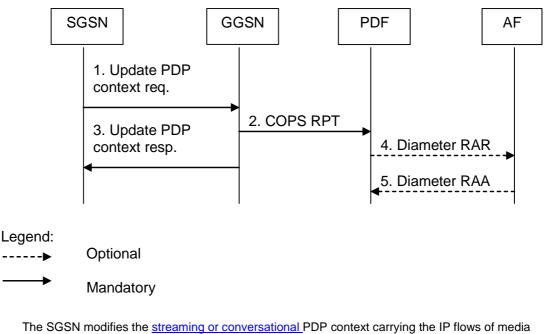
Mandatory

- 1. A request to modify the PDP context carrying the IP flows of media component(s), of which at least one may have been modified or removed, is indicated by sending the Update PDP Context Request message to the GGSN with the changed UMTS QoS parameters.
- 2. If the GGSN supports a Local Policy Decision Point(LPDP), it can consult the local policy decision stored in the LPDP before sending the COPS REQ message to the PDF. In case the requested QoS is within the already authorized QoS and the binding information is not changed, the GGSN does not need to send an authorization request to the PDF and proceeds to step 7. Otherwise, the GGSN sends a COPS REQ message to the PDF.
- If the PDF receives the COPS REQ message, it performs an authorization decision according to the requested modification. If the AF has instructed earlier that the PDF needs to contact the AF in bearer modification, the PDF sends a re-authorization request to the AF.
- 4. If step 3 happens, the AF responds to the re-authorisation request.
- 5. If the PDF has received a COPS REQ message in step 2, the PDF performs the authorization decision.
- 6. If the PDF has received a COPS REQ message in step 2, the decision taken by the PDF is returned via the COPS DEC message. The DEC message includes the policy information to be used by the GGSN in order to perform the policy-based admission control.
- 7. The GGSN enforces the policy decision based on the authorization information cached on the GGSN LPDP or received from the PDF for the IP flows of media component(s) carried by the PDP context.
- 8. If step 6 has happened, the GGSN sends COPS RPT message back to the PDF and reports its success or failure in carrying out the PDF decision and notifies state changes if any.
- 9. The Update PDP Context Response message is sent to the SGSN to acknowledge the PDP context modification.

Figure 6.5.1: Authorization of PDP Context Modification

6.5.2 Indication of PDP Context Modification

Figure 6.5.2 presents the "Indication of PDP Context Modification" procedure to both the Mobile Originating (MO) side and the Mobile Terminating (MT) side when the maximum bit rate (downlink and uplink) for the PDP context is modified to and from 0 kbit/s.



- The SGSN modifies the <u>streaming or conversational</u> PDP context carrying the IP flows of media component(s) <u>to or from 0 kbits/s</u> by sending the Update PDP Context Request message to the GGSN.
 The GGSN sends a COPS RPT message to the PDF notifying the PDP context modification.
- 3. The GGSN sends the Update PDP Context Response message to the SGSN to acknowledge the PDP context modification.
- 4. If the AF has instructed the PDF earlier that the PDF needs to contact the AF when the bandwidth of the PDP context is modified to 0 kbit/s, the PDF sends a re-authorization request to the AF.
- 5. If step 4 happens, the AF sends a re-authorisation answer back to the PDF. If the PDP context is modified to 0 kbit/s, the authorization may be kept or removed depending on operator's policies.

Figure 6.5.2: Indication of PDP Context Modification

3GPP TSG-CN3 Meeting #34

Tdoc #N3-040864

Seoul, Korea, 15	th to 19 th November 2004	
	CHANGE REQUEST	CR-Form-v7
æ	29.208 CR 089 # rev 1 ^{# Curr}	ent version: 5.8.0 [#]
For <mark>HELP</mark> on u	sing this form, see bottom of this page or look at the pop	-up text over the X symbols.
Proposed change	affects: UICC apps # ME Radio Access	Network Core Network X
<i>Title:</i> ដ	Modification of PDP contexts	
Source: ೫	Orange	
Work item code: ଝ	E2EQOS	Date: ೫ <mark>19/11/2004</mark>
Category: ₩	Use <u>one</u> of the following categories: Us 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 <u>TR 21.900</u> .	Pase: %REL-5e oneof 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:	器 It is an essential correction.	
	The GGSN may receive an "Update PDP context re whatever the modification is requested by the UE of The GGSN is not able to detect whether the request	r the network (SGSN, RAN).
	In particular, the RNC can request the modification break of the radio connection or due to user inactive context is using streaming or conversational traffic preserved, but the maximum bit rate is downgraded downlink) when the associated RAB is released. The PDP Context Request message to the GGSN to see 0 kbit/s in the GGSN.	ity. In that case, if the PDP class, the PDP context is d to 0 kbit/s (for both uplink and he SGSN sends an Update
	The treatment between the GGSN and PDF in the release' procedure should cover all cases (and not UE).	
Summary of chang	e: # In 'Modification of PDP context' QoS procedures,	

- "Indication of PDP context modification" is requested by the SGSN for a streaming or conversational PDP context modified to or from 0 kbit/s. -
- "Authorization of PDP context modification" applies in all other cases, i.e. not only on UE request.

Consequences if #	Conditions for triggering of "Authorization of PDP context modification" and
not approved:	"Indication of PDP context modification" are not completely specified.

Clauses affected:	第 6.5
Other specs	Y N % X Other core specifications %
affected:	X Test specifications X O&M Specifications
Other comments:	策 Mirror CR in R6

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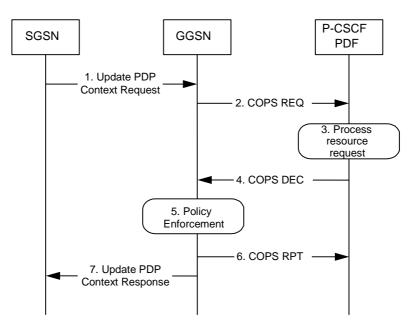
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6.5 Modification of PDP Context

The "Modification of PDP Context" procedure is used when a PDP Context is modified such that the requested QoS falls outside of the limits that were authorized at PDP context activation (or last modification) or such that the maximum bit rate (downlink and uplink) is downgraded to 0 kbit/s. In these cases, the GGSN communicates with the PDF as described below.

6.5.1 Authorization of PDP Context Modification

Figure 6.5.1 presents the "Modification of PDP Context" procedure to both the Mobile Originating (MO) side and the Mobile Terminating (MT) side when the UMTS QoS which were authorized at PDP context activation (or last modification) has been changed by UE.

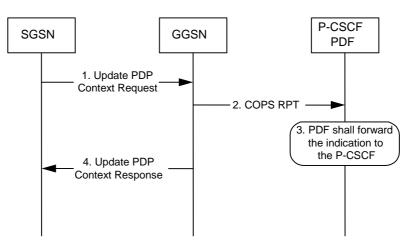


- 1. A request to modify the PDP context carrying the IP flows of media component(s), of which at least one may have been modified or removed, is indicated by sending the Update PDP Context Request message to the GGSN with the changed UMTS QoS parameters.
- 2. If the GGSN supports a Local Policy Decision Point(LPDP), it can consult the local policy decision stored in the LPDP before sending the COPS REQ message to the PDF. In case the requested QoS is within the already authorized QoS and the binding information is not changed, the GGSN does not need to send an authorization request to the PDF and proceeds to step 5. Otherwise, the GGSN sends a COPS REQ message to the PDF.
- 3. The PDF receives the COPS REQ message and performs an authorization decision according to the requested modification.
- 4. The decision taken by the PDF is returned via the COPS DEC message. The DEC message includes the policy information to be used by the GGSN in order to perform the policy-based admission control.
- 5. The GGSN enforces the policy decision based on the authorization information cached on the GGSN LPDP or received from the PDF for the IP flows of media component(s) carried by the PDP context.
- 6. The GGSN sends COPS RPT message back to the PDF and reports its success or failure in carrying out the PDF decision and notifies state changes if any.
- 7. The Update PDP Context Response message is sent to the SGSN to acknowledge the PDP context modification.

Figure 6.5.1: Authorization of PDP Context Modification to both the Mobile Originating (MO) side and the Mobile Terminating (MT) side

6.5.2 Indication of PDP Context Modification

Figure 6.5.2 presents the "Indication of PDP Context Modification" procedure to both the Mobile Originating (MO) side and the Mobile Terminating (MT) side when the maximum bit rate (downlink and uplink) for the PDP context is modified to and from 0 kbit/s.



- 1. SGSN modifies the <u>streaming or conversational PDP</u> context carrying the IP flows of media component(s) to or from 0 kbit/s by sending the Update PDP Context Request message to the GGSN.
- 2. GGSN sends a COPS RPT message to the PDF notifying the PDP context modification.
- 3. PDF receives the COPS RPT message and forwards the indication to the P-CSCF.
- At this point the authorization may be kept or removed depending on operators policies.
- 4. GGSN sends the Update PDP Context Response message to the SGSN to acknowledge the PDP context modification.
- NOTE: Step 4 may also occur at the same time or before Step 3.

Figure 6.5.2: Indication of PDP Context Modification to both the Mobile Originating (MO) side and the Mobile Terminating (MT) side

3GPP TSG–CN3 Meeting #34 Seoul, Korea, 15th to 19th November 2004

Tdoc **≋N3-040815**

	b ^m to 19 ^m November 2004	CR-Form-v
	CHANGE REQUEST	
ж	29.208 CR 081 #rev 1 [#]	Current version: 5.8.0 [#]
For <u>HELP</u> on u	sing this form, see bottom of this page or look at the	e pop-up text over the X symbols.
Proposed change	affects: UICC apps೫ ME Radio Ao	ccess Network Core Network
Title: #	Removal of QoS commit for session modifica	ation
Source: ଖ	Orange	
Work item code: ଖ	E2EQOS	<i>Date:</i>
Category: ೫	 F 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 <u>TR 21.900</u>. 	Release: %REL-5Use one 2of the following releases: 22(GSM Phase 2)9)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	 It is an essential correction. Currently, the "Removal of QoS commit" appli on hold (section 6.2.1) or media removal (sect is to command the closing of the gate at the G 	tion 6.2.2). The role of the procedure

For media put on hold, the procedure "occurs whenever a bidirectional media is made unidirectional" and "media is placed on hold as specified in RFC 3264".

As stated in RFC 3264 about offer/answer model for SDP (section 8.4)

If a party in a call wants to put the other party "on hold", i.e., request that it temporarily stops sending one or more unicast media streams, a party offers the other an updated SDP. If the stream to be placed on hold was previously a **sendrecv** media stream, it is placed on hold by marking it as **sendonly**. If the stream to be placed on hold was previously a **recvonly** media stream, it is placed on hold by marking it **inactive**. This means that a **stream is placed "on hold" separately in each direction**. Each stream is placed "on hold" independently. The recipient of an offer for a stream on-hold SHOULD NOT automatically return an answer with the corresponding stream on hold.

"Removal of QoS commit" should apply when a media is changed to inactive or to unidirectional, including the case when a media is put in hold as specified in RFC 3264.

Summary of change: # In 'Removal of QoS commit' procedure, conditions for triggering are given.

Consequences if **#** Conditions for triggering are not completely specified for session modification. not approved:

Clauses affected:	¥ 6.2
	ΥΝ
Other specs affected:	# X Other core specifications # X Test specifications # X O&M Specifications #
Other comments:	۲ Mirror CR in R6

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6.2 Removal of QoS commit

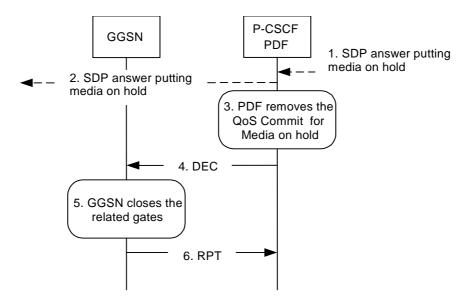
The "Removal of QoS commit" procedure is used e.g. when media IP flow(s) of a session is put on hold. (e.g. in case of a media re-negotiation or call hold). The PDF decision of "Removal of QoS commit" shall be sent as a separate decision to the GGSN corresponding to the previous "Authorize QoS Resources" request.

6.2.1 Removal of QoS commit at Media on Hold

Media is placed on hold as specified in RFC 3264 [11]. <u>Media modified to become inactive (SDP direction attribute)</u> shall also be considered to be put on hold.

If a bidirectional media component is placed on hold by making it unidirectional, the QoS Commit shall only be removed in the deactivated direction. If a media component is placed on hold by making it inactive, the QoS Commit shall be removed in both directions.

Figure 6.2.1 presents the "Removal of QoS commit" procedure at media on hold to both the Mobile Originating (MO) side and the Mobile Terminating (MT) side.



- 1. P-CSCF receives an SDP answer putting media on hold within a SIP message. (NOTE 1)
- 2. P-CSCF forwards an SDP answer putting media on hold within a SIP message.
- 3. PDF removes the QoS commit for the media on hold.
- 4. PDF sends COPS DEC message(s) to the GGSN to close the relevant media IP flow gate(s), leaving the possible related RTCP gate(s) open to keep the connection alive.
- 5. GGSN receives the COPS DEC message(s) and closes the requested gate(s).
- 6. GGSN sends COPS RPT message(s) back to the PDF.

NOTE 1: This procedure occurs whenever a bidirectional media is made unidirectional or when a media is changed to inactive.

Figure 6.2.1: Removal of QoS commit at Media on Hold to both the Mobile Originating (MO) side and the Mobile Terminating (MT) side

3GPP TSG_CN3 Monting #34

Tdoc 99N3-010803

											CR-Form-v
CHANGE REQUEST											
ж		29.208 C	CR <mark>082</mark>	ж	rev	3	ж	Current ve	rsion:	6.1.0	Ħ
For <u>HELP</u> or	n us	sing this form,	, see bottoi	n of this p	age or	look a	at the	pop-up tex	kt over	r the X syr	nbols.
						-				-	
Proposed chang	je a	ffects: UIC	CC apps೫		ME	Rad	io Ac	cess Netwo	ork	Core Ne	etwork 💙
Title:	ж	Removal o	of QoS cor	nmit for s	ession	mod	lifica	tion			
			of QoS cor	nmit for s	ession	mod	lifica	tion			
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Source: Work item code:	ж ж	Orange	of QoS cor	nmit for s	ession	mod	lifica				
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Reason for change: #	It is an essential correction.
	Currently, the "Removal of QoS commit" applies for session modification at media hold on (section B.4.1) or media removal (section B.4.2). The role of the procedure is to command the closing of the gate at the GGSN.
	As stated in RFC 3264 about offer/answer model for SDP (section 8.4)
	If a party in a call wants to put the other party "on hold", i.e., request that it temporarily stops sending one or more unicast media streams, a party offers the other an updated SDP.
	If the stream to be placed on hold was previously a sendrecv
	media stream, it is placed on hold by marking it as sendonly . If the stream to be placed on hold was previously a recvonly media stream, it is placed on hold by marking it inactive .
	This means that a stream is placed "on hold" separately in each direction. Each stream is placed "on hold"
	independently. The recipient of an offer for a stream on-hold SHOULD NOT automatically return an answer with the corresponding stream on hold.
	"Removal of QoS commit" should apply when a media is changed to inactive and should also include the case the case when a media is put in hold as specified in RFC 3264.
Summary of change: ೫	In 'Removal of QoS commit' procedure in sections B.4 and 6.2, conditions for

	triggering are given.
Consequences if 発 not approved:	Conditions for triggering are not completely specified for session modification.

Clauses affected:	ж	第 B4						
	Г	Y	Ν					
Other specs affected:	ж		X X X	Other core specifications Test specifications O&M Specifications	ж			
Other comments:	ж							

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.

B.4 Removal of QoS commit

The "Removal of QoS commit" procedure is used e.g. when a session is released and the related IP flows are removed from a PDP context that multiplexes IP flows from several sessions, or when media IP flow(s) of a session are put on hold (e.g. in case of a media re-negotiation or call hold). The PDF decision of "Removal of QoS commit" shall be sent as a separate decision to the GGSN corresponding to the previous "Authorize QoS Resources" request.

B.4.1 Removal of QoS commit at Media on Hold

Media is placed on hold as specified in RFC 3264 [11]. <u>Media modified to become inactive (SDP direction attribute)</u> shall also be considered to be put on hold.

If a bidirectional media component is placed on hold by making it unidirectional, the QoS Commit shall only be removed in the deactivated direction. If a media component is placed on hold by making it inactive, the QoS Commit shall be removed in both directions.

Figure B.4.1.1 presents the "Removal of QoS commit" procedure at media on hold to both the Mobile Originating (MO) side and the Mobile Terminating (MT) side.

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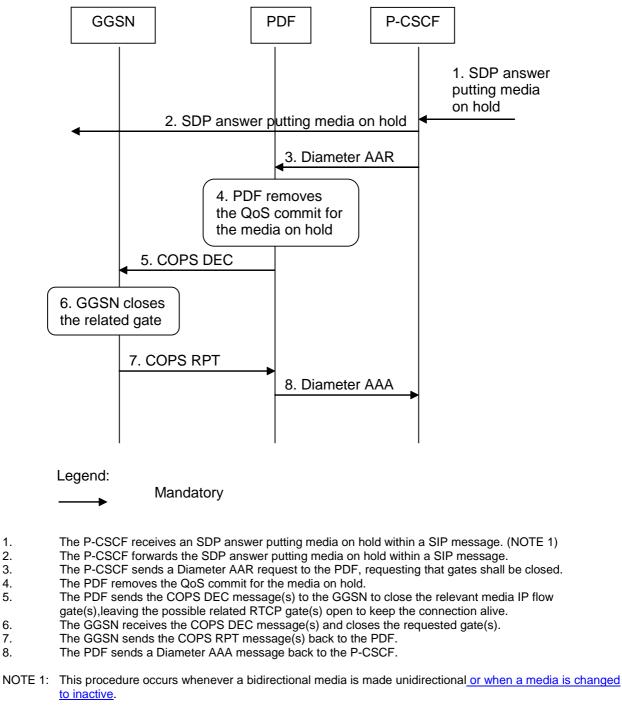


Figure B.4.1.1: Removal of QoS commit at Media on Hold to both the Mobile Originating (MO) side and the Mobile Terminating (MT) side