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

Source:	TSG CN WG 1
Title:	CRs to Rel-5 on Work Item IMS-CCR towards 24.008
Agenda item:	8.1
Document for:	APPROVAL

Introduction:

This document contains **2** CRs on **Rel-5 on** Work Item "**IMS-CCR**", that have been agreed by **TSG CN WG1**, and are forwarded to TSG CN Plenary meeting #16 for approval.

Spec	CR	Rev	Phase	Subject	Cat	Version Current		Meeting- 2nd-Level	Doc-2nd- Level
24.008	630		Rel-5	Support for IMS media Multiplexing in Session Management - TFT enhancement	С	5.3.0	5.4.0	N1-24	N1-021289
24.008	634	1	Rel-5	PCO in Session Management procedures	F	5.3.0	5.4.0	N1-24	N1-021475

	CR-Form-v5
ж	24.008 CR 630 * rev - * Current version: 5.3.0 *
For <u>HELP</u> on	using this form, see bottom of this page or look at the pop-up text over the $#$ symbols.
Proposed change	e affects: # (U)SIM ME/UE X Radio Access Network Core Network X
Title:	Support for IMS media Multiplexing in Session Management – TFT
Source:	∜ Nokia
Work item code:	・ IMS-CCR Date: 第 09.05.02
Category:	C Release: % Rel-5 Use one of the following categories: Use one of the following releases: 2 F (correction) 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 be found in 3GPP TR 21.900. REL-4 (Release 5)
Reason for chang	 # Current coding of TFT limits the future enhancements of the Multiplexing control mechanism design by SA2 since it mandates the GGSN to pass only one token to PCF for media authorization. The was agreed by SA2 during SA#24 email approval (see related LS S2-021301) that Multiplexing between session will not be allowed in Rel-5, however for future compatibility reasons the implementation should allow already in Rel-5 carrying multiple sets of binding information. From the LS: At the same time, the interfaces (and the corresponding information element(s) within) carrying Binding Information shall be designed such a way that they are capable of carrying multiple sets of Binding Informations for forward compatibility reasons. Currently, 23.207 states that the binding information consists of one authorisation token and several flow IDs. Hence the coding of TFT has to be modified in a way that more than one set of binding information may be carried in TFT.
Summary of char	Authorisation Token but the last one, is modified so that all instances shall be considered.
Consequences if not approved:	In future releases it will not be possible to introduce more than one Authorisation Token per PDP context without causing Interworking problems.
Clauses affected:	
Other specs affected:	% Other core specifications % Test specifications Ø&M Specifications

Other comments: %

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/3G_Specs/CRs.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.

10.5.6.12 Traffic Flow Template

The purpose of the *traffic flow template* information element is to specify the TFT parameters and operations for a PDP context. In addition, this information element may be used to transfer extra parameters to the network (e.g. the Authorization Token; see 3GPP TS 24.229).

The *traffic flow template* is a type 4 information element with a minimum length of 3 octets. The maximum length for the IE is 257 octets.

- NOTE 1: The IE length restriction is due to the maximum length that can be encoded in a single length octet.
- NOTE 2: A maximum size IPv4 packet filter can be 32 bytes. Therefore, 7 maximum size IPv4 type packet filters, plus the last packet filter which can contain max 30 octets can fit into one TFT, i.e. if needed not all packet filter components can be defined into one message. A maximum size Ipv6 packet filter can be 60 bytes. Therefore, only 4 maximum size IPv6 packet filters can fit into one TFT. However, using "Add packet filters to existing TFT", it's possible to create a TFT including 8 maximum size Ipv4 or IPv6 filters.

The *traffic flow template* information element is coded as shown in figure 10.5.144/3GPP TS 24.008 and table 10.5.162/3GPP TS 24.008.

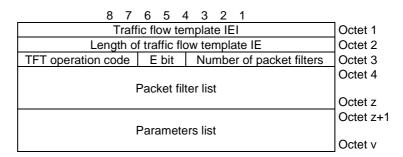
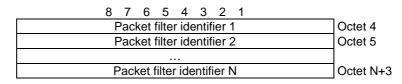
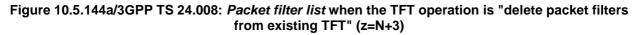


Figure 10.5.144/3GPP TS 24.008: Traffic flow template information element





8	7	6	5	4	3	2	1						
	Packet filter identifier 1												
	Packet filter evaluation precedence 1												
	L	ength o	f Packe	et filter co	ontents	1		Octet 6					
		Pac	ket filte	r conten	its 1			Octet 7					
								Octet m					
		Pac	ket filte	r identifi	er 2			Octet m+1					
	Pa	cket filte	r evalu	ation pre	ecedenc	e 2		Octet m+2					
	L	ength o	f Packe	et filter co	ontents	2		Octet m+3					
		Pac	ket filte	r conten	its 2			Octet m+4					
								Octet n					
								Octet n+1					
								Octet y					
		Pac	ket filte	r identifi	er N			Octet y+1					
	Pa	cket filte	r evalua	ation pre	ecedenc	eΝ		Octet y+2					
	L	ength of	f Packe	t filter co	ontents	N		Octet y+3					
		Pac	ket filte	r conten	ts N			Octet y+4					
								Octet z					

Figure 10.5.144b/3GPP TS 24.008: *Packet filter list* when the TFT operation is "create new TFT", or "add packet filters to existing TFT" or "replace packet filters in existing TFT"

8	7	6	5	4	3	2	1						
	Parameter identifier 1												
	Length of Parameter contents 1												
		Pa	rameter	conten	ts 1			Octet z+3					
								Octet k					
		Pa	rameter	identifi	er 2			Octet k+1					
		Length of	of Parar	neter co	ontents 2	2		Octet k+2					
		Pa	rameter	conten	ts 2			Octet k+3					
								Octet p					
								Octet p+1					
								Octet q					
		Par	ameter	identifi	er N			Octet q+1					
		Length c	of Parar	neter co	ontents I	N		Octet q+2					
		Par	ameter	conten	ts N			Octet q+3					
								Octet v					

Figure 10.5.144c/3GPP TS 24.008: Parameters list

Table 10.5.162/3GPP TS 24.008: Traffic flow template information element

```
TFT operation code (octet 3)
Bits
8 7 6
0 0 0 Spare
0 0 1 Create new TFT
0 1 0 Delete existing TFT
0 1 0 Delete existing TFT
1 1 Add packet filters to existing TFT
1 0 0 Replace packet filters in existing TFT
1 0 1 Delete packet filters from existing TFT
1 1 0 No TFT operation
1 1 1 Reserved
```

E bit (bit 5 of octet 3) The *E* bit indicates if a parameters list is included in the TFT IE and it is encoded as follows: 0 parameters list is not included parameters list is included 1 Number of packet filters (octet 3) The number of packet filters contains the binary coding for the number of packet filters in the packet filter list. The number of packet filters field is encoded in bits 4 through 1 of octet 3 where bit 4 is the most significant and bit 1 is the least significant bit. For the "delete existing TFT" operation and for the "no TFT operation", the number of packet filters shall be coded as 0. For all other operations, the number of packet filters shall be greater than 0 and less than or equal to 8. Packet filter list (octets 4 to z) The packet filter list contains a variable number of packet filters. For the "delete existing TFT" operation, the packet filter list shall be empty. For the "delete packet filters from existing TFT" operation, the packet filter list shall contain a variable number of packet filter identifiers. This number shall be derived from the coding of the number of packet filters field in octet 3. For the "create new TFT", "add packet filters to existing TFT" and "replace packet filters in existing TFT" operations, the packet filter list shall contain a variable number of packet filters. This number shall be derived from the coding of the number of packet filters field in octet 3. Each packet filter is of variable length and consists of a packet filter identifier (1 octet); a packet filter evaluation precedence (1 octet); the length of the packet filter contents (1 octet); and the packet filter contents itself (v octets). The packet filter identifier field is used to identify each packet filter in a TFT. Since the maximum number of packet filters in a TFT is 8, only the least significant 3 bits are used. Bits 8 through 4 are spare bits. The packet filter evaluation precedence field is used to specify the precedence for the packet filter among all packet filters in all TFTs associated with this PDP address. Higher the value of the packet filter evaluation precedence field, lower the precedence of that packet filter is. The first bit in transmission order is the most significant bit. The length of the packet filter contents field contains the binary coded representation of the length of the packet filter contents field of a packet filter. The first bit in transmission order is the most significant bit. Parameters list (octets z+1 to v) The parameters list contains a variable number of parameters that might need to be transferred in addition to the packet filters. If the parameters list is included, the E *bit* is set to 1; otherwise, the *E bit* is set to 0. Each parameter included in the *parameters list* is of variable length and consists of: a parameter identifier (1 octet); the length of the parameter contents (1 octet); and the parameter contents itself (v octets). The *parameter identifier* field is used to identify each parameter included in the parameters list and it contains the hexadecimal coding of the parameter identifier. Bit 8 of the *parameter identifier* field contains the most significant bit and bit 1

contains the least significant bit. In this version of the protocol, the following parameter identifiers are specified:

01H (Authorization Token);
02H (Flow Identifier).

If the *parameters list* contains a parameter identifier that is not supported by the receiving entity the corresponding parameter shall be discarded.

The *length of parameter contents* field contains the binary coded representation of the length of the *parameter contents* field. The first bit in transmission order is the most significant bit.

When the *parameter identifier* indicates Authorization Token, the *parameter contents* field contains an authorization token, as specified in 3GPP TS 24.229. This authorization token is represented as a string of digits encoded in hexadecimal form. The least significant digit is encoded in bits 4321 of the first octet, the second least significant digit is encoded in bits 8765 of the first octet, the third least significant digit is encoded in bits 4321 of the second octet, etc. When the total number of digits is even, bits 8765 of the last octet are marked as unused with the value "1111".

<u>The parameters list shall be coded in a way that an Authorization Token (i.e. a</u> parameter with identifier 01H) is always followed by one or more Flow Identifiers (i.e. one or more parameters with identifier 02H).

If the *parameters list* contains two or more consecutive Authorization Tokens without any Flow Identifiers in between, the receiver shall treat this as a semantical TFT error.

If the *parameters list* contains more than one instance of the Authorization Token, then all instances except the last instance shall be ignored.

When the *parameter identifier* indicates Flow Identifier, the *parameter contents* field contains the binary representation of a flow identifier, as specified in 3GPP TS 24.229. Bit 1 of the first octet is least significant bit, and bit 8 of the last octet is the most significant bit.

If the *parameters list* contains more than one instance of the Flow Identifier, then all instances shall be considered.

Table 10.5.162/3GPP TS 24.008 (continued): Traffic flow template information element

The packet filter contents field is of variable size and contains a variable number (at least one) of packet filter components. Each packet filter component type identifier and a fixed length packet filter component value field. The packet filter component type identifier shall be transmitted first. In each packet filter components, page values and "IPV4 source address type" and "IPV4 source address type" and "IPV4 source address type" and "IPV6 source address type" packet filter components, only one shall be present in one packet filter components, only one shall be present in one packet filter components, only one shall be present in one packet filter. Among the "single destination port range type" packet filter components, only one shall be present in one packet filter. Packet filter components, only one shall be present in one packet filter. Packet filter component type identifier Bits 87 65 4 3 2 1 00 01 00 00 01 IPV4 source address type 00 11 0 0 00 01 IPV4 source address type 00 11 0 0 00 00 Single destination port range type 01 0 0 0 00 00 Single destination port range type 01 0 0 0 0 00 Single destination port type 01 0 0 0 0 0 Single destination port range type 01 1 0 0 0 0 0 Security parameter index type 01 1 1 0 0 0 0 Flow label type Aldress field and a four octet <i>IPV4 address</i> field shall be encoded as a sequence of a sixteen octet <i>IPV4 address</i> field and a four octet <i>IPV4 address</i> field shall be encoded as a sequence of a sixteen octet <i>IPV6 address</i> field shall be encoded as a sequence of a sixteen octet <i>IPV6 address</i> field shall be encoded as a sequence of a sixteen octet <i>IPV6 address</i> field shall be encoded as a sequence of a sixteen octet <i>IPV6 address</i> field shall be encoded as a sequence of a sixteen octet <i>IPV6 address</i> field shall be encoded as a sequence of a sixteen octet <i>IPV6 address</i> field shall be encoded as a sequence of a sixteen octet <i>IPV6 address</i> field shall be encoded as a port range type". The <i>packet filter component value</i> field shall be encoded as a sequence of a sixt		
In each packet filter, there shall not be more than one occurrence of each packet filter component type. Among the "IPV4 source address type" and "IPV6 source address type" packet filter components, only one shall be present in one packet filter. Among the "single destination port type" and "destination port range type" packet filter components, only one shall be present in one packet filter. Among the "single source port type" and "source port range type" packet filter components, only one shall be present in one packet filter. Packet filter component type identifier Bits 87 6 5 4 3 2 1 00 01 0 0 00 IPV4 source address type 00 11 0 0 00 IPV4 source address type 00 11 0 0 00 IPV4 source address type 00 11 0 0 0 0 IPV6 source address type 00 11 0 0 0 0 IPV6 source address type 01 0 1 0 0 0 0 IPV6 source address type 01 0 1 0 0 0 0 IPV6 source address type 01 0 1 0 0 0 0 IPV6 source port range type 01 0 1 0 0 0 0 IPV6 source port type 01 0 1 0 0 0 0 ISingle destination port range type 01 0 1 0 0 0 0 ISingle source port type 01 1 1 0 0 0 0 Security parameter index type 01 1 1 0 0 0 0 Security parameter index type 01 1 1 0 0 0 0 Flow label type All other values are reserved. For "IPV4 source address type", the packet filter component value field shall be encoded as a sequence of a sixteen octet <i>IPV4 address</i> field and a four octet <i>IPV4 address mask</i> field. The <i>IPV4 address</i> field shall be transmitted first. For "IPV6 address type", the packet filter component value field shall be encoded as one octet which specifies the IPV4 protocol identifier /Next header type", the packet filter component value field shall be encoded as one octet which specifies the IPV4 protocol identifier /Next header type", the packet filter component value field shall be encoded as one octet which specifies the IPV4 protocol identifier /Next header type", the packet filter component value field shall be encoded as a sequence of a our cocted as two octet port range type" the packet filter component value field shall be encoded as a sequenc	least one) of <i>packet filter components</i> . Each <i>packet filter component</i> shall be encoded as a sequence of a one octet <i>packet filter component type identifier</i> and a fixed length <i>packet filter component value</i> field. The <i>packet filter component type</i>	
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Consequences if not approved:	ж	and F	PCO, a r	on optim	nal solutio	on will h	ave t	compatil o be ado that the	pted a	again	. In addit	ion there

	PCF rejection.
Clauses affected:	# 9.5.3, 9.5.6, 9.5.10, 9.5.12, 9.5.13
Other specs Affected:	% Other core specifications % Test specifications 0&M Specifications
Other comments:	¥

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/3G_Specs/CRs.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.

9.5.3 Activate PDP context reject

This message is sent by the network to the MS to reject activation of a PDP context. See table 9.5.3/3GPP TS 24.008.

Message type: ACTIVATE PDP CONTEXT REJECT

Significance: global

Direction: network to MS

Table 9.5.3/3GPP TS 24.008: ACTIVATE PDP CONTEXT REJECT message content

IEI	Information Element	Type/Reference	Presence	Format	Length
	Protocol discriminator	Protocol discriminator 10.2	М	V	1/2
	Transaction identifier	Transaction identifier 10.3.2	М	V	1/2- 3/2
	Activate PDP context reject message identity	Message type 10.4	М	V	1
	SM cause	SM Cause 10.5.6.6	М	V	1
27	Protocol configuration options	Protocol configuration options 10.5.6.3	0	TLV	3 - 253

9.5.3.1 Protocol configuration options

This IE may be included in the message if the network wishes to transmit (protocol) data (e.g. configuration parameters, error codes or messages/events) to the MS.

The protocol configuration options IE may only be inserted by the network (see TS29.060) if the SM Cause indicates "activation rejected by GGSN".

9.5.6 Activate Secondary PDP Context Reject

This message is sent by the network to the UE to reject activation of an additional PDP context associated with the same PDP address and APN as an already active PDP context. See Table 9.5.6/3GPP TS 24.008.

Message type: ACTIVATE SECONDARY PDP CONTEXT REJECT

Significance: global

Direction: network to MS

IEI	Information Element	Type/Reference	Presence	Format	Length
	Protocol discriminator	Protocol discriminator 10.2	М	V	1/2
	Transaction identifier	Transaction identifier 10.3.2	М	V	1/2 3/2
	Activate secondary PDP context reject message identity	Message type 10.4	М	V	1
	SM cause	SM Cause 10.5.6.6	М	V	1
<u>27</u>	Protocol configuration options	Protocol configuration options 10.5.6.3	<u>0</u>	<u>TLV</u>	<u>3 – 253</u>

Table 9.5.6/3GPP TS 24.008: ACTIVATE SECONDARY PDP CONTEXT REJECT message content

9.5.6.1 Protocol configuration options

This IE may be included in the message if the network wishes to transmit (protocol) data (e.g. configuration parameters, error codes or messages/events) to the MS.

9.5.10 Modify PDP context request (MS to network direction)

This message is sent by the MS to the network to request modification of an active PDP context. See table 9.5.10/3GPP TS 24.008.

Message type: MODIFY PDP CONTEXT REQUEST (MS TO NETWORK DIRECTION)

Significance: global

Direction: MS to network

Table 9.5.10/3GPP TS 24.008: MODIFY PDP CONTEXT REQUEST (MS to network direction) message content

IEI	Information Element	Type/Reference	Presence	Format	Length
	Protocol discriminator	Protocol discriminator	М	V	<u>1/2½</u>
		10.2			
	Transaction identifier	Transaction identifier	М	V	1/2-3/2
		10.3.2			
	Modify PDP context request	Message type	М	V	1
	message identity	10.4			
32	Requested LLC SAPI	LLC service access point identifier	0	TV	2
		10.5.6.9			
30	Requested new QoS	Quality of service	0	TLV	14
		10.5.6.5			
31	New TFT	Traffic Flow Template	0	TLV	3-257
		10.5.6.12			
27	Protocol configuration options	Protocol configuration options	<u>0</u>	TLV	<u>3-253</u>
		10.5.6.3			

9.5.10.4 Protocol configuration options

This IE may be included in the message if the MS wishes to transmit (protocol) data (e.g. configuration parameters, error codes or messages/events) to the network.

9.5.12 Modify PDP context accept (Network to MS direction)

This message is sent by the network to the MS to acknowledge the modification of an active PDP context. See table 9.5.12/3GPP TS 24.008.

Message type: MODIFY PDP CONTEXT ACCEPT (NETWORK TO MS DIRECTION)

Significance: global

Direction: Network to MS

Table 9.5.12/3GPP TS 24.008: MODIFY PDP CONTEXT ACCEPT (NETWORK to MS direction) message content

IEI	Information Element	Type/Reference	Presence	Format	Length
	Protocol discriminator	Protocol discriminator 10.2	М	V	1/2
	Transaction identifier	Transaction identifier 10.3.2	М	V	1⁄2- 3/2
	Modify PDP context accept message identity	Message type 10.4	М	V	1
30	Negotiated QoS	Quality of service 10.5.6.5	0	TLV	14
32	Negotiated LLC SAPI	LLC service access point identifier 10.5.6.9	0	TV	2
8	New radio priority	Radio priority 10.5.7.2	0	ΤV	1
34	Packet Flow Identifier	Packet Flow Identifier 10.5.6.11	0	TLV	3
<u>27</u>	Protocol configuration options	Protocol configuration options 10.5.6.3	<u>0</u>	<u>TLV</u>	<u>3 – 253</u>

9.5.12.5 Protocol configuration options

This IE may be included in the message if the network wishes to transmit (protocol) data (e.g. configuration parameters, error codes or messages/events) to the MS.

9.5.13 Modify PDP Context Reject

This message is sent by the network to the UE to reject the requested modification of the TFT. The network should not send a MODIFY PDP CONTEXT REJECT message only if the requested QoS is not available. If a TFT modification was requested and the requested new TFT is not available then MODIFY PDP CONTEXT REJECT shall be sent. See Table 9.5.13/3GPP TS 24.008.

Message type: MODIFY PDP CONTEXT REJECT

Significance: global

Direction: network to MS

Table 9.5.13/3GPP TS 24.008: MODIFY PDP CONTEXT REJECT message content
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IEI	Information Element	Type/Reference	Presence	Format	Length
	Protocol discriminator	Protocol discriminator 10.2	М	V	1/2
	Transaction identifier	Transaction identifier 10.3.2	М	V	1/2- 3/2
	Modify PDP Context Reject	Message type 10.4	М	V	1
	SM cause	SM Cause 10.5.6.6	М	V	1
<u>27</u>	Protocol configuration options	Protocol configuration options 10.5.6.3	<u>0</u>	<u>TLV</u>	<u>3 – 253</u>

9.5.13.1 Protocol configuration options

This IE may be included in the message if the network wishes to transmit (protocol) data (e.g. configuration parameters, error codes or messages/events) to the MS.