3GPP TSG-CN Meeting #23 10th - 12th March 2004. Phoenix, USA.

Source:	TSG CN WG 1
Title:	CR to R99 (with mirror CRs) on Work Item TEI towards 24.008
Agenda item:	7.11
Document for:	APPROVAL

Introduction:

This document contains 4 CRs, **R99 (with mirror CRs)** on Work Item "**TEI**", that have been agreed by **TSG CN WG1 in CN1#33 meeting**, and are forwarded to TSG CN Plenary meeting #23 for approval.

Spec	CR	Rev	Phase	Subject	Cat	Version- Current	Version- New	Doc-2nd- Level	Meeting- 2nd-
						Current	New	Levei	Level
24.008	833	1	R99	Conditions for PFI usage	F	3.17.0	3.18.0	N1-040382	N1-33
24.008	834	1	Rel-4	Conditions for PFI usage	А	4.12.0	4.13.0	N1-040383	N1-33
24.008	835	1	Rel-5	Conditions for PFI usage	A	5.10.0	5.11.0	N1-040384	N1-33
24.008	836	1	Rel-6	Conditions for PFI usage	A	6.3.0	6.4.0	N1-040385	N1-33

Atlanta, Georgia, USA 16 – 20 February 2004 revision of N1-040243

ж <mark>2</mark>	24.008 CR 833 # rev 1 ^{# Current version:} 3.17.0 [#]						
For <u>HELP</u> on usin	ng this form, see bottom of this page or look at the pop-up text over the st symbols.						
Proposed change aff	ects: UICC apps# ME Radio Access Network Core Network X						
Title: # 0	Conditions for PFI usage						
Source: अस्ता	Nokia						
Work item code: 🕱 🧧	TEI Date: ೫ 17/2/2004						
D	F Release: % R99 se 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) etailed explanations of the above categories can Rel-4 (Release 4) e found in 3GPP TR 21.900. Rel-5 (Release 5) Rel-6 (Release 6) Rel-6 (Release 6)						
Reason for change:	 It is not specified clearly whether SGSN can send Packet Flow Indentifier (PFI), during PDP context activation or modification, to an MS not supporting BSS packet flow procedures. SA2 #36 (Nov-2003) agreed the related stage 2 CR 465 on 23.060 in document 						
	S2-034250. This CR was subsequently approved by TSG-SA #22 as part of SP- 030653 and is therefore included in the latest versions of 23.060.						
Summary of change:	It is clarified that the SGSN should not send Packet Flow Indentifier (PFI) to an MS that indicated in the MS Network Capability IE that it does not support BSS packet flow procedures.						
	It was not considered possible in SA to make the new SGSN requirement mandatory in frozen releases and therefore only Rel-6 version of the 23.060 CR puts a mandatory restriction not to send PFI to non-supporting mobile. This is also reflected in these 24.008 CRs, and R99 – Rel-5 say 'should not' while Rel-6 version says 'shall not'. It is intended that all new implementations from now on should follow this recommendation.						
Consequences if not approved:	H There can be problems with MS which don't support BSS packet flow procedures but network anyway sends them PFI. Also the MS's information sent to network, which tells whether MS supports or not BSS packet flow procedures would be totally useless if network could still try to use them.						
Clauses affected:	¥ 9.5.2, 9.5.5, 9.5.9, 9.5.12						
	YN						

Other specs affected:	Ħ	> > >	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.
- 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.

9.5.2 Activate PDP context accept

This message is sent by the network to the MS to acknowledge activation of a PDP context. See table 9.5.2/3GPP TS 24.008.

Message type: ACTIVATE PDP CONTEXT ACCEPT

Significance: global

Direction: network to MS

Table 9.5.2/3GPP TS 24.008: ACTIVATE PDP CONTEXT ACCEPT 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 accept message identity	Message type 10.4	М	V	1
	Negotiated LLC SAPI	LLC service access point identifier 10.5.6.9	М	V	1
	Negotiated QoS	Quality of service 10.5.6.5	М	LV	12
	Radio priority	Radio priority 10.5.7.2	М	V	1/2
	Spare half octet	Spare half octet 10.5.1.8	М	V	1/2
2B	PDP address	Packet data protocol address 10.5.6.4	0	TLV	4 - 20
27	Protocol configuration options	Protocol configuration options 10.5.6.3	0	TLV	3 - 253
34	Packet Flow Identifier	Packet Flow Identifier 10.5.6.11	0	TLV	3

9.5.2.1 PDP address

If the MS did not request a static address in the corresponding ACTIVATE PDP CONTEXT REQUEST message, the network shall include the PDP address IE in this ACTIVATE PDP CONTEXT ACCEPT message.

If the MS requested a static address in the corresponding ACTIVATE PDP CONTEXT REQUEST message, the network shall not include the PDP address IE in this ACTIVATE PDP CONTEXT ACCEPT message.

9.5.2.2 Protocol configuration options

This IE is included in the message when the network wishes to transmit protocol configuration options for the external PDN.

9.5.2.3 Packet Flow Identifier

This IE may be included if the network wants to indicate the Packet Flow Identifier associated to the PDP context. The network should not include this IE if the MS has not indicated PFC procedure support in PFC feature mode field of MS Network Capability IE.

9.5.5 Activate Secondary PDP Context Accept

This message is sent by the network to the MS to acknowledge activation of an additional PDP context associated with the same PDP address and APN as an already active PDP context. See Table 9.5.5/3GPP TS 24.008.

Message type: ACTIVATE SECONDARY PDP CONTEXT ACCEPT

Significance: global

Direction: network to MS

Table 9.5.5/3GPP TS 24.008: ACTIVATE SECONDARY PDP CONTEXT ACCEPT 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 secondary PDP context accept message identity	Message type 10.4	М	V	1
	Negotiated LLC SAPI	LLC service access point identifier 10.5.6.9	М	V	1
	Negotiated QoS	Quality of service 10.5.6.5	М	LV	12
	Radio priority	Radio priority	М	V	1/2
	Spare half octet	Spare half octet 10.5.1.8	М	V	1/2
34	Packet Flow Identifier	Packet Flow Identifier 10.5.6.11	0	TLV	3

9.5.5.1 Packet Flow Identifier

This IE may be included if the network wants to indicate the Packet Flow Identifier associated to the PDP context. The network should not include this IE if the MS has not indicated PFC procedure support in PFC feature mode field of MS Network Capability IE.

9.5.9 Modify PDP context request (Network to MS direction)

This message is sent by the network to the MS to request modification of an active PDP context. See table 9.5.9/3GPP TS 24.008.

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

Significance: global

Direction: network to MS

Table 9.5.9/3GPP TS 24.008: MODIFY PDP CONTEXT REQUEST (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 request message identity	Message type 10.4	М	V	1
	Radio priority	Radio priority 10.5.7.2	М	V	1/2
	Spare half octet	Spare half octet 10.5.1.8	М	V	1/2
	Requested LLC SAPI	LLC service access point identifier 10.5.6.9	М	V	1
	New QoS	Quality of service 10.5.6.5	М	LV	12
2B	PDP address	Packet data protocol address 10.5.6.4	0	TLV	4-20
34	Packet Flow Identifier	Packet Flow Identifier 10.5.6.11	0	TLV	3

9.5.9.1 PDP address

If the MS requested external PDN address allocation at PDP context activation via an APN and this was confirmed by the network in the ACTIVATE PDP CONTEXT ACCEPT message, then the network shall include the PDP address IE in the MODIFY PDP CONTEXT REQUEST message once the address has been actually allocated, in order to update the PDP context in the MS.

9.5.9.2 Packet Flow Identifier

This IE may be included if the network wants to indicate the Packet Flow Identifier associated to the PDP context. The network should not include this IE if the MS has not indicated PFC procedure support in PFC feature mode field of MS Network Capability IE.

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	13
32	Negotiated LLC SAPI	LLC service access point identifier 10.5.6.9	0	ΤV	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

9.5.12.1 Negotiated QoS

This IE is included in the message if the network assigns a new QoS.

9.5.12.2 Negotiated LLC SAPI

This IE is included in the message if the network assigns a new LLC SAPI.

9.5.12.3 New radio priority

This IE is included in the message only if the network modifies the radio priority.

9.5.12.4 Packet Flow Identifier

This IE may be included if the network wants to indicate the Packet Flow Identifier associated to the PDP context. <u>The</u> network should not include this IE if the MS has not indicated PFC procedure support in PFC feature mode field of MS Network Capability IE.

3GPP TSG-CN1 Meeting #33 Atlanta, Georgia, USA 16 – 20 February 2004 Revision of N1-040244

CHANGE REQUEST							
^೫ 24	<mark>.008</mark> CR <mark>834</mark> #	rev <mark>1</mark> ^ж	Current version: 4.12	<mark>ж.0</mark> ж			
For <u>HELP</u> on using a	this form, see bottom of this p	age or look at the	e pop-up text over the ೫	symbols.			
Proposed change affec	<i>ts:</i> UICC apps೫ <mark></mark>	ME Radio Ad	ccess Network Core	Network X			
Title: % Con	nditions for PFI usage						
Source: ೫ No	kia						
Work item code: # TE	l		Date:	1			
Deta	one of the following categories: F (correction) A (corresponds to a correction in B (addition of feature), C (functional modification of feature) D (editorial modification) iled explanations of the above categories bund in 3GPP <u>TR 21.900</u> .	ture)	Release: %Rel-4Use one 2of the following 22(GSM Phase 199R96(Release 19R97(Release 19R98(Release 19R99(Release 19R99(Release 19Rel-4(Release 4)Rel-5(Release 5)Rel-6(Release 6)	e 2) 96) 97) 98)			
Reason for change: # Summary of change: #	during PDP context activation packet flow procedures. SA2 #36 (Nov-2003) agreed S2-034250. This CR was su 030653 and is therefore incl It is clarified that the SGSN MS that indicated in the MS packet flow procedures. It was not considered possil mandatory in frozen release	on or modification the related stag ubsequently appro- uded in the lates should not send Network Capabil ole in SA to make	e 2 CR 465 on 23.060 in oved by TSG-SA #22 as t versions of 23.060. Packet Flow Indentifier (lity IE that it does not su the new SGSN requirer only Rel-6 version of the	e document part of SP- PFI) to an oport BSS ment 23.060 CR			
Consequences if % not approved:	puts a mandatory restriction also reflected in these 24.00 version says 'shall not'. It is should follow this recomment There can be problems with but network anyway sends to which tells whether MS support totally useless if network co	08 CRs, and R99 intended that all indation. MS which don't hem PFI. Also th ports or not BSS	- Rel-5 say 'should not' new implementations fro support BSS packet flow e MS's information sent packet flow procedures	while Rel-6 om now on / procedures to network,			
Clauses affected: Ж	9.5.2, 9.5.5, 9.5.9, 9.5.12						

Other specs affected:	Ħ	> > >	Other core specifications Test specifications O&M Specifications	ж	
Other comments:	ж				

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9.5.2 Activate PDP context accept

This message is sent by the network to the MS to acknowledge activation of a PDP context. See table 9.5.2/3GPP TS 24.008.

Message type: ACTIVATE PDP CONTEXT ACCEPT

Significance: global

Direction: network to MS

Table 9.5.2/3GPP TS 24.008: ACTIVATE PDP CONTEXT ACCEPT 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 accept message identity	Message type 10.4	М	V	1
	Negotiated LLC SAPI	LLC service access point identifier 10.5.6.9	М	V	1
	Negotiated QoS	Quality of service 10.5.6.5	М	LV	12
	Radio priority	Radio priority 10.5.7.2	М	V	1/2
	Spare half octet	Spare half octet 10.5.1.8	М	V	1/2
2B	PDP address	Packet data protocol address 10.5.6.4	0	TLV	4 - 20
27	Protocol configuration options	Protocol configuration options 10.5.6.3	0	TLV	3 - 253
34	Packet Flow Identifier	Packet Flow Identifier 10.5.6.11	0	TLV	3

9.5.2.1 PDP address

This IE shall be included by the network if the MS has requested the activation of a PDP context with the PDP type IPv4 or IPv6 and dynamic addressing.

9.5.2.2 Protocol configuration options

This IE is included in the message when the network wishes to transmit protocol configuration options for the external PDN.

9.5.2.3 Packet Flow Identifier

This IE may be included if the network wants to indicate the Packet Flow Identifier associated to the PDP context. The network should not include this IE if the MS has not indicated PFC procedure support in PFC feature mode field of MS Network Capability IE.

9.5.5 Activate Secondary PDP Context Accept

This message is sent by the network to the MS to acknowledge activation of an additional PDP context associated with the same PDP address and APN as an already active PDP context. See Table 9.5.5/3GPP TS 24.008.

Message type: ACTIVATE SECONDARY PDP CONTEXT ACCEPT

Significance: global

Direction: network to MS

Table 9.5.5/3GPP TS 24.008: ACTIVATE SECONDARY PDP CONTEXT ACCEPT 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 secondary PDP context accept message identity	Message type 10.4	М	V	1
	Negotiated LLC SAPI	LLC service access point identifier 10.5.6.9	М	V	1
	Negotiated QoS	Quality of service 10.5.6.5	М	LV	12
	Radio priority	Radio priority	М	V	1/2
	Spare half octet	Spare half octet 10.5.1.8	М	V	1/2
34	Packet Flow Identifier	Packet Flow Identifier 10.5.6.11	0	TLV	3

9.5.5.1 Packet Flow Identifier

This IE may be included if the network wants to indicate the Packet Flow Identifier associated to the PDP context. The network should not include this IE if the MS has not indicated PFC procedure support in PFC feature mode field of MS Network Capability IE.

9.5.9 Modify PDP context request (Network to MS direction)

This message is sent by the network to the MS to request modification of an active PDP context. See table 9.5.9/3GPP TS 24.008.

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

Significance: global

Direction: network to MS

Table 9.5.9/3GPP TS 24.008: MODIFY PDP CONTEXT REQUEST (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 request message identity	Message type 10.4	М	V	1
	Radio priority	Radio priority 10.5.7.2	М	V	1/2
	Spare half octet	Spare half octet 10.5.1.8	М	V	1/2
	Requested LLC SAPI	LLC service access point identifier 10.5.6.9	М	V	1
	New QoS	Quality of service 10.5.6.5	М	LV	12
2B	PDP address	Packet data protocol address 10.5.6.4	0	TLV	4-20
34	Packet Flow Identifier	Packet Flow Identifier 10.5.6.11	0	TLV	3

9.5.9.1 PDP address

If the MS requested external PDN address allocation at PDP context activation via an APN and this was confirmed by the network in the ACTIVATE PDP CONTEXT ACCEPT message, then the network shall include the PDP address IE in the MODIFY PDP CONTEXT REQUEST message once the address has been actually allocated, in order to update the PDP context in the MS.

9.5.9.2 Packet Flow Identifier

This IE may be included if the network wants to indicate the Packet Flow Identifier associated to the PDP context. The network should not include this IE if the MS has not indicated PFC procedure support in PFC feature mode field of MS Network Capability IE.

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	13
32	Negotiated LLC SAPI	LLC service access point identifier 10.5.6.9	0	ΤV	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

9.5.12.1 Negotiated QoS

This IE is included in the message if the network assigns a new QoS.

9.5.12.2 Negotiated LLC SAPI

This IE is included in the message if the network assigns a new LLC SAPI.

9.5.12.3 New radio priority

This IE is included in the message only if the network modifies the radio priority.

9.5.12.4 Packet Flow Identifier

This IE may be included if the network wants to indicate the Packet Flow Identifier associated to the PDP context. The network should not include this IE if the MS has not indicated PFC procedure support in PFC feature mode field of MS Network Capability IE.

3GPP TSG-CN1 Meeting #33 Atlanta, Georgia, USA 16 – 20 February 2004 Revision of N1-040245

CHANGE REQUEST						
ж	24.008 CR 835 # rev 1 [#] Current versio	^{on:} <mark>5.10.0</mark> [#]				
For <u>HELP</u> on us	ing this form, see bottom of this page or look at the pop-up text o	over the X symbols.				
Proposed change affects: UICC apps# ME Radio Access Network Core Network X						
Title: भ	Conditions for PFI usage					
Source: ೫	Nokia					
Work item code: ℜ	TEI Date: 策	17/2/2004				
Category: Ж	Use one of the following categories: Use one of the following categories: Use one of the following categories: F (correction) 2 (C A (corresponds to a correction in an earlier release) R96 (F B (addition of feature), R97 (F C (functional modification of feature) R98 (F D (editorial modification) R99 (F Detailed explanations of the above categories can Rel-4 (F De found in 3GPP TR 21.900. Rel-5 (F	Rel-5 ne following releases: GSM Phase 2) Release 1996) Release 1997) Release 1998) Release 1999) Release 4) Release 5) Release 6)				
Reason for change Summary of chang Consequences if not approved:	 during PDP context activation or modification, to an MS not packet flow procedures. SA2 #36 (Nov-2003) agreed the related stage 2 CR 465 on S2-034250. This CR was subsequently approved by TSG-S 030653 and is therefore included in the latest versions of 23 a: # It is clarified that the SGSN should not send Packet Flow In MS that indicated in the MS Network Capability IE that it do packet flow procedures. It was not considered possible in SA to make the new SGSI mandatory in frozen releases and therefore only Rel-6 versi puts a mandatory restriction not to send PFI to non-support also reflected in these 24.008 CRs, and R99 – Rel-5 say 'st version says 'shall not'. It is intended that all new implements should follow this recommendation. # There can be problems with MS which don't support BSS probut network anyway sends them PFI. Also the MS's information. 	a 23.060 in document SA #22 as part of SP- 3.060. Indentifier (PFI) to an bes not support BSS IN requirement bion of the 23.060 CR ting mobile. This is hould not' while Rel-6 intations from now on packet flow procedures ation sent to network,				
	which tells whether MS supports or not BSS packet flow pro totally useless if network could still try to use them.					
Clauses affected:	¥ <mark>9.5.2, 9.5.5, 9.5.9, 9.5.12</mark>					
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Other specs affected:	Ħ	> > >	Other core specifications Test specifications O&M Specifications	ж	
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- 3) With "track changes" disabled, paste the entire CR form (use CTRL-A to select it) into the specification just in front of the clause containing the first piece of changed text. Delete those parts of the specification which are not relevant to the change request.

9.5.2 Activate PDP context accept

This message is sent by the network to the MS to acknowledge activation of a PDP context. See table 9.5.2/3GPP TS 24.008.

Message type: ACTIVATE PDP CONTEXT ACCEPT

Significance: global

Direction: network to MS

Table 9.5.2/3GPP TS 24.008: ACTIVATE PDP CONTEXT ACCEPT 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 accept message identity	Message type 10.4	М	V	1
	Negotiated LLC SAPI	LLC service access point identifier 10.5.6.9	М	V	1
	Negotiated QoS	Quality of service 10.5.6.5	М	LV	13-15
	Radio priority	Radio priority 10.5.7.2	М	V	1/2
	Spare half octet	Spare half octet 10.5.1.8	М	V	1/2
2B	PDP address	Packet data protocol address 10.5.6.4	0	TLV	4-20
27	Protocol configuration options	Protocol configuration options 10.5.6.3	0	TLV	3-253
34	Packet Flow Identifier	Packet Flow Identifier 10.5.6.11	0	TLV	3

9.5.2.1 PDP address

This IE shall be included by the network if the MS has requested the activation of a PDP context with the PDP type IPv4 or IPv6 and dynamic addressing.

9.5.2.2 Protocol configuration options

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

9.5.2.3 Packet Flow Identifier

This IE may be included if the network wants to indicate the Packet Flow Identifier associated to the PDP context. The network should not include this IE if the MS has not indicated PFC procedure support in PFC feature mode field of MS Network Capability IE.

9.5.5 Activate Secondary PDP Context Accept

This message is sent by the network to the MS to acknowledge activation of an additional PDP context associated with the same PDP address and APN as an already active PDP context. See Table 9.5.5/3GPP TS 24.008.

Message type: ACTIVATE SECONDARY PDP CONTEXT ACCEPT

Significance: global

Direction: network to MS

Table 9.5.5/3GPP TS 24.008: ACTIVATE SECONDARY PDP CONTEXT ACCEPT message content

IEI	Information Element	Type/Reference	Presence	Format	Length
	Protocol discriminator	Protocol discriminator	М	V	1/2
	Transaction identifier	Transaction identifier 10.3.2	М	V	1/2-3/2
	Activate secondary PDP context accept message identity	Message type 10.4	М	V	1
	Negotiated LLC SAPI	LLC service access point identifier 10.5.6.9	М	V	1
	Negotiated QoS	Quality of service 10.5.6.5	М	LV	13
	Radio priority	Radio priority 10.5.7.2	М	V	1/2
	Spare half octet	Spare half octet 10.5.1.8	М	V	1/2
34	Packet Flow Identifier	Packet Flow Identifier 10.5.6.11	0	TLV	3
27	Protocol configuration options	Protocol configuration options 10.5.6.3	0	TLV	3-253

9.5.5.1 Packet Flow Identifier

This IE may be included if the network wants to indicate the Packet Flow Identifier associated to the PDP context. The network should not include this IE if the MS has not indicated PFC procedure support in PFC feature mode field of MS Network Capability IE.

If MS has not indicated PFC procedure support, then it should ignore this IE, if received.

9.5.5.2 Protocol configuration options

9.5.9 Modify PDP context request (Network to MS direction)

This message is sent by the network to the MS to request modification of an active PDP context. See table 9.5.9/3GPP TS 24.008.

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

Significance: global

Direction: network to MS

Table 9.5.9/3GPP TS 24.008: MODIFY PDP CONTEXT REQUEST (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 request message identity	Message type 10.4	М	V	1
	Radio priority	Radio priority 10.5.7.2	М	V	1/2
	Spare half octet	Spare half octet 10.5.1.8	М	V	1/2
	Requested LLC SAPI	LLC service access point identifier 10.5.6.9	М	V	1
	New QoS	Quality of service 10.5.6.5	М	LV	13-15
2B	PDP address	Packet data protocol address 10.5.6.4	0	TLV	4-20
34	Packet Flow Identifier	Packet Flow Identifier 10.5.6.11	0	TLV	3
27	Protocol configuration options	Protocol configuration options 10.5.6.3	0	TLV	3 – 253

9.5.9.1 PDP address

If the MS requested external PDN address allocation at PDP context activation via an APN and this was confirmed by the network in the ACTIVATE PDP CONTEXT ACCEPT message, then the network shall include the PDP address IE in the MODIFY PDP CONTEXT REQUEST message once the address has been actually allocated, in order to update the PDP context in the MS.

9.5.9.2 Packet Flow Identifier

This IE may be included if the network wants to indicate the Packet Flow Identifier associated to the PDP context. The network should not include this IE if the MS has not indicated PFC procedure support in PFC feature mode field of MS Network Capability IE.

If MS has not indicated PFC procedure support, then it should ignore this IE, if received.

9.5.9.3 Protocol configuration options

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	14-16
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	TV	1
34	Packet Flow Identifier	Packet Flow Identifier 10.5.6.11	0	TLV	3
27	Protocol configuration options	Protocol configuration options 10.5.6.3	0	TLV	3 – 253

9.5.12.1 Negotiated QoS

This IE is included in the message if the network assigns a new QoS.

9.5.12.2 Negotiated LLC SAPI

This IE is included in the message if the network assigns a new LLC SAPI.

9.5.12.3 New radio priority

This IE is included in the message only if the network modifies the radio priority.

9.5.12.4 Packet Flow Identifier

This IE may be included if the network wants to indicate the Packet Flow Identifier associated to the PDP context. <u>The</u> network should not include this IE if the MS has not indicated PFC procedure support in PFC feature mode field of MS <u>Network Capability IE.</u>

If MS has not indicated PFC procedure support, then it should ignore this IE, if received.

9.5.12.5 Protocol configuration options

3GPP TSG-CN1 Meeting #33 Atlanta, Georgia, USA 16 – 20 February 2004 Revision of N1-040246

CHANGE REQUEST							
ж	24.008 CR 836 # rev 1 ^{# Current version}	^{n:} 6.3.0 [#]					
For <mark>HELP</mark> on u	sing this form, see bottom of this page or look at the pop-up text ov	ver the X symbols.					
Proposed change affects: UICC apps# ME Radio Access Network Core Network X							
Title: ೫	Conditions for PFI usage						
Source: अ	Nokia						
Work item code: ೫	TEI Date: 육	17/2/2004					
Category: ⊮	F (correction)2(GA (corresponds to a correction in an earlier release)R96(RB (addition of feature),R97(RC (functional modification of feature)R98(RD (editorial modification)R99(RDetailed explanations of the above categories canRel-4(Rbe found in 3GPP TR 21.900.Rel-5(R	Rel-6 e following releases: GSM Phase 2) Release 1996) Release 1997) Release 1998) Release 1999) Release 4) Release 5) Release 6)					
Reason for change							
Summary of chang	 during PDP context activation or modification, to an MS not packet flow procedures. SA2 #36 (Nov-2003) agreed the related stage 2 CR 465 on S2-034250. This CR was subsequently approved by TSG-S 030653 and is therefore included in the latest versions of 23 ge: # It is clarified that the SGSN should not send Packet Flow Inc MS that indicated in the MS Network Capability IE that it doe packet flow procedures. It was not considered possible in SA to make the new SGSN mandatory in frozen releases and therefore only Rel-6 versi puts a mandatory restriction not to send PFI to non-supporti also reflected in these 24.008 CRs, and R99 – Rel-5 say 'sh version says 'shall not'. 	23.060 in document A #22 as part of SP- 3.060. dentifier (PFI) to an es not support BSS N requirement ion of the 23.060 CR ing mobile. This is					
Consequences if not approved:	* There can be problems with MS which don't support BSS pa but network anyway sends them PFI. Also the MS's informa which tells whether MS supports or not BSS packet flow pro totally useless if network could still try to use them.	ation sent to network,					
Clauses affected:	ж <mark>9.5.2, 9.5.5, 9.5.9, 9.5.12</mark>						
Other specs	Y N 第 X Other core specifications 第						

affected:	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.
- 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.

9.5.2 Activate PDP context accept

This message is sent by the network to the MS to acknowledge activation of a PDP context. See table 9.5.2/3GPP TS 24.008.

Message type: ACTIVATE PDP CONTEXT ACCEPT

Significance: global

Direction: network to MS

Table 9.5.2/3GPP TS 24.008: ACTIVATE PDP CONTEXT ACCEPT 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 accept message identity	Message type 10.4	М	V	1
	Negotiated LLC SAPI	LLC service access point identifier 10.5.6.9	М	V	1
	Negotiated QoS	Quality of service 10.5.6.5	М	LV	13-15
	Radio priority	Radio priority 10.5.7.2	М	V	1/2
	Spare half octet	Spare half octet 10.5.1.8	М	V	1/2
2B	PDP address	Packet data protocol address 10.5.6.4	0	TLV	4-20
27	Protocol configuration options	Protocol configuration options 10.5.6.3	0	TLV	3-253
34	Packet Flow Identifier	Packet Flow Identifier 10.5.6.11	0	TLV	3

9.5.2.1 PDP address

This IE shall be included by the network if the MS has requested the activation of a PDP context with the PDP type IPv4 or IPv6 and dynamic addressing.

9.5.2.2 Protocol configuration options

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

9.5.2.3 Packet Flow Identifier

This IE may be included if the network wants to indicate the Packet Flow Identifier associated to the PDP context. <u>The</u> network shall not include this IE if the MS has not indicated PFC procedure support in PFC feature mode field of MS <u>Network Capability IE.</u>

9.5.5 Activate Secondary PDP Context Accept

This message is sent by the network to the MS to acknowledge activation of an additional PDP context associated with the same PDP address and APN as an already active PDP context. See Table 9.5.5/3GPP TS 24.008.

Message type: ACTIVATE SECONDARY PDP CONTEXT ACCEPT

Significance: global

Direction: network to MS

Table 9.5.5/3GPP TS 24.008: ACTIVATE SECONDARY PDP CONTEXT ACCEPT 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 secondary PDP context accept message identity	Message type 10.4	М	V	1
	Negotiated LLC SAPI	LLC service access point identifier 10.5.6.9	М	V	1
	Negotiated QoS	Quality of service 10.5.6.5	М	LV	13-15
	Radio priority	Radio priority 10.5.7.2	М	V	1/2
	Spare half octet	Spare half octet 10.5.1.8	М	V	1/2
34	Packet Flow Identifier	Packet Flow Identifier 10.5.6.11	0	TLV	3
27	Protocol configuration options	Protocol configuration options 10.5.6.3	0	TLV	3-253

9.5.5.1 Packet Flow Identifier

This IE may be included if the network wants to indicate the Packet Flow Identifier associated to the PDP context. <u>The network shall not include this IE if the MS has not indicated PFC procedure support in PFC feature mode field of MS Network Capability IE.</u>

If MS has not indicated PFC procedure support, then it shall ignore this IE, if received.

9.5.5.2 Protocol configuration options

9.5.9 Modify PDP context request (Network to MS direction)

This message is sent by the network to the MS to request modification of an active PDP context. See table 9.5.9/3GPP TS 24.008.

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

Significance: global

Direction: network to MS

Table 9.5.9/3GPP TS 24.008: MODIFY PDP CONTEXT REQUEST (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 request message identity	Message type 10.4	М	V	1
	Radio priority	Radio priority 10.5.7.2	М	V	1/2
	Spare half octet	Spare half octet 10.5.1.8	М	V	1/2
	Requested LLC SAPI	LLC service access point identifier 10.5.6.9	М	V	1
	New QoS	Quality of service 10.5.6.5	М	LV	13-15
2B	PDP address	Packet data protocol address 10.5.6.4	0	TLV	4-20
34	Packet Flow Identifier	Packet Flow Identifier 10.5.6.11	0	TLV	3
27	Protocol configuration options	Protocol configuration options 10.5.6.3	0	TLV	3 – 253

9.5.9.1 PDP address

If the MS requested external PDN address allocation at PDP context activation via an APN and this was confirmed by the network in the ACTIVATE PDP CONTEXT ACCEPT message, then the network shall include the PDP address IE in the MODIFY PDP CONTEXT REQUEST message once the address has been actually allocated, in order to update the PDP context in the MS.

9.5.9.2 Packet Flow Identifier

This IE may be included if the network wants to indicate the Packet Flow Identifier associated to the PDP context. The network shall not include this IE if the MS has not indicated PFC procedure support in PFC feature mode field of MS Network Capability IE.

If MS has not indicated PFC procedure support, then it shall ignore this IE, if received.

9.5.9.3 Protocol configuration options

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	14-16
32	Negotiated LLC SAPI	LLC service access point identifier 10.5.6.9	0	ΤV	2
8	New radio priority	Radio priority 10.5.7.2	0	TV	1
34	Packet Flow Identifier	Packet Flow Identifier 10.5.6.11	0	TLV	3
27	Protocol configuration options	Protocol configuration options 10.5.6.3	0	TLV	3 – 253

9.5.12.1 Negotiated QoS

This IE is included in the message if the network assigns a new QoS.

9.5.12.2 Negotiated LLC SAPI

This IE is included in the message if the network assigns a new LLC SAPI.

9.5.12.3 New radio priority

This IE is included in the message only if the network modifies the radio priority.

9.5.12.4 Packet Flow Identifier

This IE may be included if the network wants to indicate the Packet Flow Identifier associated to the PDP context. <u>The</u> network shall not include this IE if the MS has not indicated PFC procedure support in PFC feature mode field of MS <u>Network Capability IE.</u>

If MS has not indicated PFC procedure support, then it shall ignore this IE, if received.

9.5.12.5 Protocol configuration options