**3GPP TSG-CT WG1 Meeting #130-eC1-21xxxx was C1-213173**

**Electronic meeting, 20-28 May 2021**

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| *CR-Form-v12.1* | | | | | | | | |
| **CHANGE REQUEST** | | | | | | | | |
|  | | | | | | | | |
|  | **24.501** | **CR** | **3240** | **rev** | **1** | **Current version:** | **17.2.1** |  |
|  | | | | | | | | |
| *For* [***HE******LP***](http://www.3gpp.org/3G_Specs/CRs.htm#_blank)*on using this form: comprehensive instructions can be found at* [*http://www.3gpp.org/Change-Requests*](http://www.3gpp.org/Change-Requests)*.* | | | | | | | | |
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| ***Proposed change affects:*** | UICC apps |  | ME | **X** | Radio Access Network |  | Core Network | **X** |

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| ***Title:*** | Correcting the NOTEs related to changes in some IEI values across releases | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Source to WG:*** | Nokia, Nokia Shanghai Bell | | | | | | | | | |
| ***Source to TSG:*** | C1 | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Work item code:*** | 5GProtoc17 | | | | |  | ***Date:*** | | | 2021-05-04 |
|  |  | | | |  | |  | | |  |
| ***Category:*** | **F** |  | | | | | ***Release:*** | | | Rel-17 |
|  | *Use one of the following categories:* ***F*** *(correction)* ***A*** *(mirror corresponding to a change in an earlier release)* ***B*** *(addition of feature),* ***C*** *(functional modification of feature)* ***D*** *(editorial modification)*  Detailed explanations of the above categories can be found in 3GPP [TR 21.900](http://www.3gpp.org/ftp/Specs/html-info/21900.htm). | | | | | | | | *Use one of the following releases: Rel-8 (Release 8) Rel-9 (Release 9) Rel-10 (Release 10) Rel-11 (Release 11) ... Rel-15 (Release 15) Rel-16 (Release 16) Rel-17 (Release 17) Rel-18 (Release 18)* | |
|  |  | | | | | | | | | |
| ***Reason for change:*** | | The following NOTEs are added in some air messages definitions clauses in the spec:  NOTE: It is possible for UEs compliant with earlier versions of this specification to send the Mapped EPS bearer contexts IE with IEI of value "7F" for this message.  And  NOTE: It is possible for networks compliant with earlier versions of this specification to send the Mapped EPS bearer contexts IE with IEI of value "7F" for this message.  And  NOTE: It is possible for UEs compliant with earlier versions of this specification to include the 5GSM cause IE with IEI 59 in the PDU SESSION MODIFICATION COMPLETE message, and therefore the IEI 59 cannot be used for other optional IEs other than the 5GSM cause IE for future extensions of the PDU SESSION MODIFICATION COMPLETE message.  The first two NOTEs were originally introduced in V15.3.0 of TS 24.501 using the CR in **C1-190656**, to reflect that a UE/Network operating in V15.2.1 or earlier can have different IEI value for the Mapped EPS bearer contexts IE. So here the statement "earlier versions" is meant to be V15.2.1 or earlier versions.  The third NOTE was originally introduced in V15.4.0 of TS 24.501 using the CR in **C1-193923**, to reflect that the indicated message in V15.3.0 can have the 5GSM cause IE included. So here the statement "earlier versions" is meant to be V15.3.0. It is worth to note that the 5GSM cause IE was added in the indicated message only in version V15.3.0 and not in earlier versions, hence there is no mentioning of "earlier versions" in the correction done in this CR for this NOTE.  Hence those NOTEs shall be corrected to reflect the intended spec releases/versions. Because those notes are not applicable for example for a Rel-17 UE/Network. Having the statement "earlier versions" in a Rel-17 spec would make lot of ambiguity regarding which version is meant and it could be interpreted as a Rel-16 release, which is wrong and is not the intention of the notes, because other releases are meant by "earlier versions" as indicated above. | | | | | | | | |
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| ***Summary of change:*** | | Correcting the mentioned NOTEs by stating the intended releases. | | | | | | | | |
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| ***Consequences if not approved:*** | | Wrong understanding and wrong implementation happen for the spec, because having the statement "earlier versions" in a Rel-17 spec would mean a Rel-16 release, which is wrong and is not the intention of the NOTEs, because spec releases v15.2.1 and V15.3.0 are meant by "earlier versions". | | | | | | | | |
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| ***Clauses affected:*** | | 8.3.7.1, 8.3.9.1, 8.3.10.1 | | | | | | | | |
|  | |  | | | | | | | | |
|  | | **Y** | **N** |  | | | |  | | |
| ***Other specs*** | |  | **X** | Other core specifications | | | | TS/TR ... CR ... | | |
| ***affected:*** | |  | **X** | Test specifications | | | | TS/TR ... CR ... | | |
| ***(show related CRs)*** | |  | **X** | O&M Specifications | | | | TS/TR ... CR ... | | |
|  | |  | | | | | | | | |
| ***Other comments:*** | |  | | | | | | | | |
|  | |  | | | | | | | | |
| ***This CR's revision history:*** | |  | | | | | | | | |

\*\*\*\*\* First change \*\*\*\*\*

#### 8.3.7.1 Message definition

The PDU SESSION MODIFICATION REQUEST message is sent by the UE to the SMF to request a modification of a PDU session. See table 8.3.7.1.1.

Message type: PDU SESSION MODIFICATION REQUEST

Significance: dual

Direction: UE to network

Table 8.3.7.1.1: PDU SESSION MODIFICATION REQUEST message content

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| IEI | Information Element | Type/Reference | Presence | Format | Length |
|  | Extended protocol discriminator | Extended protocol discriminator  9.2 | M | V | 1 |
|  | PDU session ID | PDU session identity  9.4 | M | V | 1 |
|  | PTI | Procedure transaction identity  9.6 | M | V | 1 |
|  | PDU SESSION MODIFICATION REQUEST message identity | Message type  9.7 | M | V | 1 |
| 28 | 5GSM capability | 5GSM capability  9.11.4.1 | O | TLV | 3-15 |
| 59 | 5GSM cause | 5GSM cause  9.11.4.2 | O | TV | 2 |
| 55 | Maximum number of supported packet filters | Maximum number of supported packet filters  9.11.4.9 | O | TV | 3 |
| B- | Always-on PDU session requested | Always-on PDU session requested  9.11.4.4 | O | TV | 1 |
| 13 | Integrity protection maximum data rate | Integrity protection maximum data rate  9.11.4.7 | O | TV | 3 |
| 7A | Requested QoS rules | QoS rules  9.11.4.13 | O | TLV-E | 7-65538 |
| 79 | Requested QoS flow descriptions | QoS flow descriptions  9.11.4.12 | O | TLV-E | 6-65538 |
| 75 | Mapped EPS bearer contexts | Mapped EPS bearer contexts  9.11.4.8 | O | TLV-E | 7-65538 |
| 7B | Extended protocol configuration options | Extended protocol configuration options  9.11.4.6 | O | TLV-E | 4-65538 |
| 74 | Port management information container | Port management information container  9.11.4.27 | O | TLV-E | 4-65538 |
| 66 | IP header compression configuration | Header compression configuration  9.11.4.24 | O | TLV | 5-257 |
| 1F | Ethernet header compression configuration | Ethernet header compression configuration  9.11.4.28 | O | TLV | 3 |

NOTE: It is possible for UEs compliant with version 15.2.1 or earlier versions of this specification to send the Mapped EPS bearer contexts IE with IEI of value "7F" for this message.

\*\*\*\*\* Next change \*\*\*\*\*

#### 8.3.9.1 Message definition

The PDU SESSION MODIFICATION COMMAND message is sent by the SMF to the UE to indicate a modification of a PDU session. See table 8.3.9.1.1

Message type: PDU SESSION MODIFICATION COMMAND

Significance: dual

Direction: network to UE

Table 8.3.9.1.1: PDU SESSION MODIFICATION COMMAND message content

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| IEI | | Information Element | | Type/Reference | | Presence | | Format | | Length | |
|  | | Extended protocol discriminator | | Extended protocol discriminator  9.2 | | M | | V | | 1 | |
|  | | PDU session ID | | PDU session identity  9.4 | | M | | V | | 1 | |
|  | | PTI | | Procedure transaction identity  9.6 | | M | | V | | 1 | |
|  | | PDU SESSION MODIFICATION COMMAND message identity | | Message type  9.7 | | M | | V | | 1 | |
| 59 | | 5GSM cause | | 5GSM cause  9.11.4.2 | | O | | TV | | 2 | |
| 2A | | Session AMBR | | Session-AMBR  9.11.4.14 | | O | | TLV | | 8 | |
| 56 | | RQ timer value | | GPRS timer  9.11.2.3 | | O | | TV | | 2 | |
| 8- | | Always-on PDU session indication | | Always-on PDU session indication  9.11.4.3 | | O | | TV | | 1 | |
| 7A | | Authorized QoS rules | | QoS rules  9.11.4.13 | | O | | TLV-E | | 7-65538 | |
| 75 | | Mapped EPS bearer contexts | | Mapped EPS bearer contexts  9.11.4.8 | | O | | TLV-E | | 7-65538 | |
| 79 | | Authorized QoS flow descriptions | | QoS flow descriptions  9.11.4.12 | | O | | TLV-E | | 6-65538 | |
| 7B | | Extended protocol configuration options | | Extended protocol configuration options  9.11.4.6 | | O | | TLV-E | | 4-65538 | |
| 77 | | ATSSS container | | ATSSS container  9.11.4.22 | | O | | TLV-E | | 3-65538 | |
| 66 | | IP header compression configuration | | IP header compression configuration  9.11.4.24 | | O | | TLV | | 5-257 | |
| 74 | | Port management information container | | Port management information container  9.11.4.27 | | O | | TLV-E | | 4-65538 | |
| 1E | | Serving PLMN rate control | | Serving PLMN rate control  9.11.4.20 | | O | | TLV | | 4 | |
| 1F | | Ethernet header compression configuration | | Ethernet header compression configuration  9.11.4.28 | | O | | TLV | | 3 | |

NOTE: It is possible for networks compliant with version 15.2.1 or earlier versions of this specification to send the Mapped EPS bearer contexts IE with IEI of value "7F" for this message.

\*\*\*\*\* Next change \*\*\*\*\*

#### 8.3.10.1 Message definition

The PDU SESSION MODIFICATION COMPLETE message is sent by the UE to the SMF in response to the PDU SESSION MODIFICATION COMMAND message and indicates an acceptance of the PDU SESSION MODIFICATION COMMAND message. See table 8.3.10.1.1.

Message type: PDU SESSION MODIFICATION COMPLETE

Significance: dual

Direction: UE to network

Table 8.3.10.1.1: PDU SESSION MODIFICATION COMPLETE message content

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| IEI | Information Element | Type/Reference | Presence | Format | Length |
|  | Extended protocol discriminator | Extended protocol discriminator  9.2 | M | V | 1 |
|  | PDU session ID | PDU session identity  9.4 | M | V | 1 |
|  | PTI | Procedure transaction identity  9.6 | M | V | 1 |
|  | PDU SESSION MODIFICATION COMPLETE message identity | Message type  9.7 | M | V | 1 |
| 7B | Extended protocol configuration options | Extended protocol configuration options  9.11.4.6 | O | TLV-E | 4-65538 |
| 74 | Port management information container | Port management information container  9.11.4.27 | O | TLV-E | 4-65538 |

NOTE: It is possible for UEs compliant with version 15.3.0 of this specification to include the 5GSM cause IE with IEI 59 in the PDU SESSION MODIFICATION COMPLETE message, and therefore the IEI 59 cannot be used for other optional IEs other than the 5GSM cause IE for future extensions of the PDU SESSION MODIFICATION COMPLETE message.

\*\*\*\*\* End of changes \*\*\*\*\*