**3GPP TSG-CT WG1 Meeting #136-eC1-22xxxx**

**E-Meeting, 12th – 20th May 2022**

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| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| *CR-Form-v12.1* | | | | | | | | |
| **CHANGE REQUEST** | | | | | | | | |
|  | | | | | | | | |
|  | **24.501** | **CR** | **4407** | **rev** | **1** | **Current version:** | **17.6.1** |  |
|  | | | | | | | | |
| *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 implementation of MBS containers IEs lengths in the spec | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Source to WG:*** | Nokia, Nokia Shanghai Bell, Ericsson | | | | | | | | | |
| ***Source to TSG:*** | C1 | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Work item code:*** | 5MBS | | | | |  | ***Date:*** | | | 2022-04-28 |
|  |  | | | |  | |  | | |  |
| ***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 implementation of C1-222023 (agreed in CT1#134-e) was not done correctly in the spec, where the MBS containers IEs lengths are set wrongly in the messages' definitions. This needs to be fixed. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Summary of change:*** | | Correcting the MBS containers IE lengths | | | | | | | | |
|  | |  | | | | | | | | |
| ***Consequences if not approved:*** | | Wrong lengths remain in the spec. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Clauses affected:*** | | 8.3.1.1, 8.3.2.1, 8.3.7.1 | | | | | | | | |
|  | |  | | | | | | | | |
|  | | **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 \*\*\*\*\*

#### 8.3.1.1 Message definition

The PDU SESSION ESTABLISHMENT REQUEST message is sent by the UE to the SMF to initiate establishment of a PDU session. See table 8.3.1.1.1.

Message type: PDU SESSION ESTABLISHMENT REQUEST

Significance: dual

Direction: UE to network

Table 8.3.1.1.1: PDU SESSION ESTABLISHMENT 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 ESTABLISHMENT REQUEST message identity | Message type  9.7 | M | V | 1 |
|  | Integrity protection maximum data rate | Integrity protection maximum data rate  9.11.4.7 | M | V | 2 |
| 9- | PDU session type | PDU session type  9.11.4.11 | O | TV | 1 |
| A- | SSC mode | SSC mode  9.11.4.16 | O | TV | 1 |
| 28 | 5GSM capability | 5GSM capability  9.11.4.1 | O | TLV | 3-15 |
| 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 |
| 39 | SM PDU DN request container | SM PDU DN request container  9.11.4.15 | O | TLV | 3-255 |
| 7B | Extended protocol configuration options | Extended protocol configuration options  9.11.4.6 | O | TLV-E | 4-65538 |
| 66 | IP header compression configuration | IP header compression configuration  9.11.4.24 | O | TLV | 5-257 |
| 6E | DS-TT Ethernet port MAC address | DS-TT Ethernet port MAC address  9.11.4.25 | O | TLV | 8 |
| 6F | UE-DS-TT residence time | UE-DS-TT residence time  9.11.4.26 | O | TLV | 10 |
| 74 | Port management information container | Port management information container  9.11.4.27 | O | TLV-E | 8-65538 |
| 1F | Ethernet header compression configuration | Ethernet header compression configuration  9.11.4.28 | O | TLV | 3 |
| 29 | Suggested interface identifier | PDU address  9.11.4.10 | O | TLV | 11 |
| 72 | Service-level-AA container | Service-level-AA container  9.11.2.10 | O | TLV-E | 6-n |
| 23 | Requested MBS container | Requested MBS container  9.11.4.30 | O | TLV-E | 8-65538 |
| 34 | PDU session pair ID | PDU session pair ID  9.11.4.32 | O | TLV | 3 |
| 35 | RSN | RSN  9.11.4.33 | O | TLV | 3 |

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

#### 8.3.2.1 Message definition

The PDU SESSION ESTABLISHMENT ACCEPT message is sent by the SMF to the UE in response to PDU SESSION ESTABLISHMENT REQUEST message and indicates successful establishment of a PDU session. See table 8.3.2.1.1.

Message type: PDU SESSION ESTABLISHMENT ACCEPT

Significance: dual

Direction: network to UE

Table 8.3.2.1.1: PDU SESSION ESTABLISHMENT ACCEPT 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 ESTABLISHMENT ACCEPT message identity | | Message type  9.7 | | M | | V | | 1 | |
|  | | Selected PDU session type | | PDU session type  9.11.4.11 | | M | | V | | 1/2 | |
|  | | Selected SSC mode | | SSC mode  9.11.4.16 | | M | | V | | 1/2 | |
|  | | Authorized QoS rules | | QoS rules  9.11.4.13 | | M | | LV-E | | 6-65538 | |
|  | | Session AMBR | | Session-AMBR  9.11.4.14 | | M | | LV | | 7 | |
| 59 | | 5GSM cause | | 5GSM cause  9.11.4.2 | | O | | TV | | 2 | |
| 29 | | PDU address | | PDU address  9.11.4.10 | | O | | TLV | | 7-31 | |
| 56 | | RQ timer value | | GPRS timer  9.11.2.3 | | O | | TV | | 2 | |
| 22 | | S-NSSAI | | S-NSSAI  9.11.2.8 | | O | | TLV | | 3-10 | |
| 8- | | Always-on PDU session indication | | Always-on PDU session indication  9.11.4.3 | | O | | TV | | 1 | |
| 75 | | Mapped EPS bearer contexts | | Mapped EPS bearer contexts  9.11.4.8 | | O | | TLV-E | | 7-65538 | |
| 78 | | EAP message | | EAP message  9.11.2.2 | | O | | TLV-E | | 7-1503 | |
| 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 | |
| 25 | | DNN | | DNN  9.11.2.1B | | O | | TLV | | 3-102 | |
| 17 | | 5GSM network feature support | | 5GSM network feature support  9.11.4.18 | | O | | TLV | | 3-15 | |
| 18 | | Serving PLMN rate control | | Serving PLMN rate control  9.11.4.20 | | O | | TLV | | 4 | |
| 77 | | ATSSS container | | ATSSS container  9.11.4.22 | | O | | TLV-E | | 3-65538 | |
| C- | | Control plane only indication | | Control plane only indication  9.11.4.23 | | O | | TV | | 1 | |
| 66 | | IP header compression configuration | | IP 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 | |
| 72 | | Service-level-AA container | | Service-level-AA container  9.11.2.10 | | O | | TLV-E | | 6-n | |
| 33 | | Received MBS container | | Received MBS container  9.11.4.31 | | O | | TLV-E | | 9-65538 | |

\*\*\*\*\* Next 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 |
| 23 | Requested MBS container | Requested MBS container  9.11.4.30 | O | TLV-E | 8-65538 |
| 7C | Service-level-AA container | Service-level-AA container  9.11.2.10 | O | TLV-E | 6-n |

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.

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