**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 canbe 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. |
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| ***Summary of change:*** | Correcting the MBS containers IE lengths |
|  |  |
| ***Consequences if not approved:*** | Wrong lengths remain in the spec. |
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| ***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 discriminator9.2 | M | V | 1 |
|  | PDU session ID | PDU session identity9.4 | M | V | 1 |
|  | PTI | Procedure transaction identity9.6 | M | V | 1 |
|  | PDU SESSION ESTABLISHMENT REQUEST message identity | Message type9.7 | M | V | 1 |
|  | Integrity protection maximum data rate | Integrity protection maximum data rate9.11.4.7 | M | V | 2 |
| 9- | PDU session type | PDU session type9.11.4.11 | O | TV | 1 |
| A- | SSC mode | SSC mode9.11.4.16 | O | TV | 1 |
| 28 | 5GSM capability | 5GSM capability9.11.4.1 | O | TLV | 3-15 |
| 55 | Maximum number of supported packet filters | Maximum number of supported packet filters9.11.4.9 | O | TV | 3 |
| B- | Always-on PDU session requested | Always-on PDU session requested9.11.4.4 | O | TV | 1 |
| 39 | SM PDU DN request container | SM PDU DN request container9.11.4.15 | O | TLV | 3-255 |
| 7B | Extended protocol configuration options | Extended protocol configuration options9.11.4.6 | O | TLV-E | 4-65538 |
| 66 | IP header compression configuration | IP header compression configuration9.11.4.24 | O | TLV | 5-257 |
| 6E | DS-TT Ethernet port MAC address | DS-TT Ethernet port MAC address9.11.4.25 | O | TLV | 8 |
| 6F | UE-DS-TT residence time | UE-DS-TT residence time9.11.4.26 | O | TLV | 10 |
| 74 | Port management information container | Port management information container9.11.4.27 | O | TLV-E | 8-65538 |
| 1F | Ethernet header compression configuration | Ethernet header compression configuration9.11.4.28 | O | TLV | 3 |
| 29 | Suggested interface identifier | PDU address9.11.4.10 | O | TLV | 11 |
| 72 | Service-level-AA container | Service-level-AA container9.11.2.10 | O | TLV-E | 6-n |
| 23 | Requested MBS container | Requested MBS container9.11.4.30 | O | TLV-E | 8-65538 |
| 34 | PDU session pair ID | PDU session pair ID9.11.4.32 | O | TLV | 3 |
| 35 | RSN | RSN9.11.4.33 | 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 discriminator9.2 | M | V | 1 |
|  | PDU session ID | PDU session identity9.4 | M | V | 1 |
|  | PTI | Procedure transaction identity9.6 | M | V | 1 |
|  | PDU SESSION ESTABLISHMENT ACCEPT message identity | Message type9.7 | M | V | 1 |
|  | Selected PDU session type | PDU session type9.11.4.11 | M | V | 1/2 |
|  | Selected SSC mode | SSC mode9.11.4.16 | M | V | 1/2 |
|  | Authorized QoS rules | QoS rules9.11.4.13 | M | LV-E | 6-65538 |
|  | Session AMBR | Session-AMBR9.11.4.14 | M | LV | 7 |
| 59 | 5GSM cause | 5GSM cause9.11.4.2 | O | TV | 2 |
| 29 | PDU address | PDU address9.11.4.10 | O | TLV | 7-31 |
| 56 | RQ timer value | GPRS timer9.11.2.3 | O | TV | 2 |
| 22 | S-NSSAI | S-NSSAI9.11.2.8 | O | TLV | 3-10 |
| 8- | Always-on PDU session indication | Always-on PDU session indication9.11.4.3 | O | TV | 1 |
| 75 | Mapped EPS bearer contexts | Mapped EPS bearer contexts9.11.4.8 | O | TLV-E | 7-65538 |
| 78 | EAP message | EAP message9.11.2.2 | O | TLV-E | 7-1503 |
| 79 | Authorized QoS flow descriptions | QoS flow descriptions9.11.4.12 | O | TLV-E | 6-65538 |
| 7B | Extended protocol configuration options | Extended protocol configuration options9.11.4.6 | O | TLV-E | 4-65538 |
| 25 | DNN | DNN9.11.2.1B | O | TLV | 3-102 |
| 17 | 5GSM network feature support | 5GSM network feature support9.11.4.18 | O | TLV | 3-15 |
| 18 | Serving PLMN rate control | Serving PLMN rate control9.11.4.20 | O | TLV | 4 |
| 77 | ATSSS container | ATSSS container9.11.4.22 | O | TLV-E | 3-65538 |
| C- | Control plane only indication | Control plane only indication9.11.4.23 | O | TV | 1 |
| 66 | IP header compression configuration | IP header compression configuration9.11.4.24 | O | TLV | 5-257 |
| 1F | Ethernet header compression configuration | Ethernet header compression configuration9.11.4.28 | O | TLV | 3 |
| 72 | Service-level-AA container | Service-level-AA container9.11.2.10 | O | TLV-E | 6-n |
| 33 | Received MBS container | Received MBS container9.11.4.31 | 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 discriminator9.2 | M | V | 1 |
|  | PDU session ID | PDU session identity9.4 | M | V | 1 |
|  | PTI | Procedure transaction identity9.6 | M | V | 1 |
|  | PDU SESSION MODIFICATION REQUEST message identity | Message type9.7 | M | V | 1 |
| 28 | 5GSM capability | 5GSM capability9.11.4.1 | O | TLV | 3-15 |
| 59 | 5GSM cause | 5GSM cause9.11.4.2 | O | TV | 2 |
| 55 | Maximum number of supported packet filters | Maximum number of supported packet filters9.11.4.9 | O | TV | 3 |
| B- | Always-on PDU session requested | Always-on PDU session requested9.11.4.4 | O | TV | 1 |
| 13 | Integrity protection maximum data rate | Integrity protection maximum data rate9.11.4.7 | O | TV | 3 |
| 7A | Requested QoS rules | QoS rules9.11.4.13 | O | TLV-E | 7-65538 |
| 79 | Requested QoS flow descriptions | QoS flow descriptions9.11.4.12 | O | TLV-E | 6-65538 |
| 75 | Mapped EPS bearer contexts | Mapped EPS bearer contexts9.11.4.8 | O | TLV-E | 7-65538 |
| 7B | Extended protocol configuration options | Extended protocol configuration options9.11.4.6 | O | TLV-E | 4-65538 |
| 74 | Port management information container | Port management information container9.11.4.27 | O | TLV-E | 4-65538 |
| 66 | IP header compression configuration | Header compression configuration9.11.4.24 | O | TLV | 5-257 |
| 1F | Ethernet header compression configuration | Ethernet header compression configuration9.11.4.28 | O | TLV | 3 |
| 23 | Requested MBS container | Requested MBS container9.11.4.30 | O | TLV-E | 8-65538 |
| 7C | Service-level-AA container | Service-level-AA container9.11.2.10 | 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 \*\*\*\*\*