**3GPP TSG-CT WG1 Meeting #125-eC1-205429**

**Electronic meeting, 20-28 August 2020**

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| *CR-Form-v12.0* | | | | | | | | |
| **CHANGE REQUEST** | | | | | | | | |
|  | | | | | | | | |
|  | **24.501** | **CR** | **2581** | **rev** | **1** | **Current version:** | **16.5.1** |  |
|  | | | | | | | | |
| *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:*** | Correction on Payload container IE | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Source to WG:*** | Huawei, HiSilicon, Ericsson | | | | | | | | | |
| ***Source to TSG:*** | C1 | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Work item code:*** | 5GProtoc17 | | | | |  | ***Date:*** | | | 2020-07-30 |
|  |  | | | |  | |  | | |  |
| ***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-12 (Release 12)* *Rel-13 (Release 13) Rel-14 (Release 14) Rel-15 (Release 15) Rel-16 (Release 16) Rel-17 (Release 17)* | |
|  |  | | | | | | | | | |
| ***Reason for change:*** | | For the Payload container IE coding description given in Table 9.11.3.39.1, there are some payload container types are missing to be described, including: N1 SM information, UE policy container.  Also for the payload container type "SMS", there are two paragraphs but one is missing the included NAS messages. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Summary of change:*** | | It proposes to add the missing payload container types in the Payload container IE coding description to align with the Payload container type IE coding and the procedure text in subclause 5.4.5. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Consequences if not approved:*** | | The coding description for some payload container types are missing in the Payload container IE. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Clauses affected:*** | | 9.11.3.39 | | | | | | | | |
|  | |  | | | | | | | | |
|  | | **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 \* \* \* \*

#### 9.11.3.39 Payload container

The purpose of the Payload container information element is to transport one or multiple payloads. If multiple payloads are transported, the associated information of each payload are also transported together with the payload.

The Payload container information element is coded as shown in figure 9.11.3.39.1, figure 9.11.3.39.2, figure 9.11.3.39.3, figure 9.11.3.39.4 and table 9.11.3.39.1.

The Payload container is a type 6 information element with a minimum length of 4 octets and a maximum length of 65538 octets.

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 8 | 7 | 6 | 5 | 4 | 3 | 2 | 1 |  | |
| Payload container IEI | | | | | | | | | | octet 1 |
| Length of payload container contents | | | | | | | | | | octet 2 |
|  | | | | | | | | | | octet 3 |
|  | | | | | | | | | | octet 4 |
| Payload container contents | | | | | | | | | |  |
|  | | | | | | | | | | octet n |

Figure 9.11.3.39.1: Payload container information element

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 8 | 7 | 6 | 5 | 4 | 3 | 2 | 1 | |  | |
| Number of entries | | | | | | | | | octet 4 | |
| Payload container entry 1 | | | | | | | | | octet 5  octet x2 | |
| Payload container entry 2 | | | | | | | | | octet x2+1  octet x3 | |
| …… | | | | | | | | | … | |
| Payload container entry i | | | | | | | | | octet xi +1  octet n | |

Figure 9.11.3.39.2: Payload container contents with Payload container type "Multiple payloads"

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 8 | 7 | 6 | 5 | | 4 | 3 | 2 | 1 | |  | |
| Length of Payload container entry | | | | | | | | | | octet xi +1  octet xi +2 | |
| Number of optional IEs | | | | | Payload container type | | | | | octet xi +3 | |
| Optional IE 1 | | | | | | | | | | octet xi +4  octet y2 | |
| Optional IE 2 | | | | | | | | | | octet y2+1  octet y3 | |
| … | | | | | | | | | |  | |
| Optional IE j | | | | | | | | | | octet yj+1  octet z | |
| Payload container entry contents | | | | | | | | | | octet z+1  octet n | |

Figure 9.11.3.39.3: Payload container entry

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 8 | 7 | 6 | 5 | 4 | 3 | 2 | 1 | |  | |
| Type of optional IE | | | | | | | | | octet xi +4 | |
| Length of optional IE | | | | | | | | | octet xi +5 | |
| Value of optional IE | | | | | | | | | octet xi +6  octet y2 | |

Figure 9.11.3.39.4: Optional IE

Table 9.11.3.39.1: Payload container information element

|  |  |  |
| --- | --- | --- |
| Payload container contents (octet 4 to octet n); max value of 65535 octets | | |
| If the payload container type is set to "N1 SM information" and is included in the UL NAS TRANSPORT or DL NAS TRANSPORT message, the payload container contents contain a 5GSM message as defined in subclause 8.3.  If the payload container type is set to "SOR transparent container" and is included in the DL NAS TRANSPORT message, the payload container contents are coded the same way as the contents of the SOR transparent container IE (see subclause 9.11.3.51) for SOR data type is set to value "0" except that the first three octets are not included.  If the payload container type is set to "SOR transparent container" and is included in the UL NAS TRANSPORT message, the payload container contents are coded the same way as the contents of the SOR transparent container IE (see subclause 9.11.3.51) for SOR data type is set to value "1" except that the first three octets are not included.  If the payload container type is set to "UE policy container" and is included in the DL NAS TRANSPORT, UL NAS TRANSPORT or REGISTRATION REQUEST message, the payload container contents are coded as defined in subclause Annex D.  If the payload container type is set to "UE parameters update transparent container" and is included in the DL NAS TRANSPORT message, the payload container contents are coded the same way as the contents of the UE parameters update transparent container IE (see subclause 9.11.3.53A) for UE parameters update data type is set to value "0" except that the first three octets are not included.  If the payload container type is set to "UE parameters update transparent container" and is included in the UL NAS TRANSPORT message, the payload container contents are coded the same way as the contents of the UE parameters update transparent container IE (see subclause 9.11.3.53A) for UE parameters update data type is set to value "1" except that the first three octets are not included.  If the payload container type is set to "SMS" and is included in the UL NAS TRANSPORT or DL NAS TRANSPORT message, the payload container contents contain an SMS message (i.e. CP-DATA, CP-ACK or CP-ERROR) as defined in subclause 7.2 in 3GPP TS 24.011 [13].  If the payload container type is set to "CIoT user data container" and is included in the UL NAS TRANSPORT, DL NAS TRANSPORT or CONTROL PLANE SERVICE REQUEST message, the payload container contents are coded the same way as the contents of the user data container IE (see subclause 9.9.4.24 in 3GPP TS 24.301 [15]) except that the first three octets are not included.  If the payload container type is set to "SMS" and is included in the CONTROL PLANE SERVICE REQUEST message, the payload container contents are coded the same way as the contents of the NAS message container IE (see subclause 9.9.3.22 in 3GPP TS 24.301 [15]) except that the first two octets are not included.  If the payload container type is set to "Location services message container" and is included in the UL NAS TRANSPORT, DL NAS TRANSPORT or CONTROL PLANE SERVICE REQUEST message, the payload container contents include location services message payload.  If the payload container type is set to "LTE Positioning Protocol (LPP) message container" and is included in the UL NAS TRANSPORT or DL NAS TRANSPORT message, the payload container contents include LPP message payload.  The coding of Payload container contents is dependent on the particular application.  If the payload container type is set to "Multiple payloads", the number of entries field represents the total number of payload container entries, and the payload container entry contents field is coded as a list of payload container entry according to figure 9.11.3.39.2, with each payload container entry is coded according to figure 9.11.3.39.3 and figure 9.11.3.39.4. | | |
| Payload container entry  For each payload container entry, the payload container type field represents the payload container type value as described in subclause 9.11.3.40, the coding of payload container contents field is dependent on the particular application, and the number of optional IEs field represents the total number of optional IEs associated with the payload container entry contents field in the payload container entry. The error handlings for optional IEs specified in subclauses 7.6.1, 7.6.3 and 7.7.1 shall apply to the optional IEs included in the payload container entry. | | |
| Optional IEs  Type of optional IE (octet xi +4)  This field contains the IEI of the optional IE.  Length of optional IE (octet xi+5)  This field indicates binary coded length of the value of the optional IE entry.  Value of optional IE (octet xi+6 to octet y2)  This field contains the value of the optional IE entry with the value part of the referred information element based on following optional IE reference. If the Request type is included, the value part of the Request type shall be encoded in the bits 1 to 4 and bits 5 to 8 shall be coded as zero. | | |
| IEI | Optional IE name | Optional IE reference |
| 12 | PDU session ID | PDU session identity 2 (see subclause 9.11.3.41) |
| 24 | Additional information | Additional information (see subclause 9.11.2.1) |
| 58 | 5GMM cause | 5GMM cause (see subclause 9.11.3.2) |
| 37 | Back-off timer value | GPRS timer 3 (see subclause 9.11.2.5) |
| 59 | Old PDU session ID | PDU session identity 2 (see subclause 9.11.3.41) |
| 80 | Request type | Request type (see subclause 9.11.3.47) |
| 22 | S-NSSAI | S-NSSAI (see subclause 9.11.2.8) |
| 25 | DNN | DNN (see subclause 9.11.2.1B) |
| F0 | Release assistance indication | Release assistance indication (see subclause 9.11.3.46A) |
| A0 | MA PDU session information | MA PDU session information (see subclause 9.11.3.31A) |

\* \* \* End of Change \* \* \* \*