**3GPP TSG-CT WG1 Meeting #137-eC1-22xxxx**

**E-Meeting, 18th – 26th August 2022**

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| *CR-Form-v12.2* | | | | | | | | |
| **CHANGE REQUEST** | | | | | | | | |
|  | | | | | | | | |
|  | **24.501** | **CR** | 4516 | **rev** | **1** | **Current version:** | **17.7.1** |  |
|  | | | | | | | | |
| *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)*.* | | | | | | | | |
|  | | | | | | | | |

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| ***Proposed change affects:*** | UICC apps |  | ME | **X** | Radio Access Network |  | Core Network | **X** |

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | | | | | | | | | | |
| ***Title:*** | Correction on unused value of payload type | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Source to WG:*** | Qualcomm Incorporated | | | | | | | | | |
| ***Source to TSG:*** | CT1 | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Work item code:*** | ID\_UAS | | | | |  | ***Date:*** | | | 2022-08-04 |
|  |  | | | |  | |  | | |  |
| ***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-16 (Release 16) Rel-17 (Release 17) Rel-18 (Release 18) Rel-19 (Release 19)* | |
|  |  | | | | | | | | | |
| ***Reason for change:*** | | Clause 9.11.2.15 specifies the value of service-level-AA payload type. The table 9.11.2.15.1 describes that the other values are reserved. If the value is reserved, the value shall not be used and the receiving side shall discard the value. However, the service-level-AA payload type has been defined to be a place holder to indicate the payload type for multiple vertical services, so new value will be added in the future release.  Use of reserved value will cause a syntactic error as per TS 24.007:  “- An IE is defined to be syntactically incorrect in a message if it contains at least one value defined as "reserved", or if its value part violates syntactic rules given in the specification of the value part.”  It should be avoided for the service-level-AA payload type for furture proof purpose.  Therefore, it is proposed to change it to ‘spare’. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Summary of change:*** | | All other values for the service-level-AA payloady type are spare, and the receiving entity shall ignore if it has a spare value. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Consequences if not approved:*** | | Unnecessary restriction on the service-level-AA payload type. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Clauses affected:*** | | 9.11.2.15 | | | | | | | | |
|  | |  | | | | | | | | |
|  | | **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\*\*\*\*\*

#### 9.11.2.15 Service-level-AA payload type

The purpose of the Service-level-AA payload type information element is to indicates type of payload included in the Service-level-AA payload information element.

The Service-level-AA payload type information element is coded as shown in figure 9.11.2.15.1 and table 9.11.2.15.1.

The Service-level-AA payload type information element is a type 4 information element with length of 3 octets.

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 8 | 7 | 6 | 5 | 4 | 3 | 2 | 1 |  |
| Service-level-AA payload type IEI | | | | | | | | octet 1 |
| Service-level-AA payload type length | | | | | | | | octet 2 |
| Service-level-AA payload type | | | | | | | | octet 3 |

Figure 9.11.2.15.1: Service-level-AA payload type information element

Table 9.11.2.15.1: Service-level-AA payload type information element

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Service-level-AA payload type (octet 3):  Bits | | | | | | | | | |
| **8** | **7** | **6** | **5** | **4** | **3** | **2** | **1** |  |  |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |  | UUAA payload (see NOTE 1) |
| 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 |  | C2 authorization payload (see NOTE 2) |
| All other values are spare. The receiving entity shall ignore the service-level-AA payload type set to a spare value. | | | | | | | | | |
|  | | | | | | | | | |
| NOTE 1: If the service-level-AA payload type indicates UUAA payload, the field for the service-level-AA payload of the Service-level AA payload information element is an application layer payload for UUAA procedure between the UE supporting UAS services and the USS.  NOTE 2: If the service-level-AA payload type indicates C2 authorization payload, the field for the service-level-AA payload of the Service-level-AA payload information element is an application layer payload for C2 authorization procedure between the UE supporting UAS services and the USS. | | | | | | | | | |

\*\*\*\*\*END OF CHANGE\*\*\*\*\*