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

**E-meeting, 12th -20th May 2022 *(was\_3844)***

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| *CR-Form-v12.1* | | | | | | | | |
| **CHANGE REQUEST** | | | | | | | | |
|  | | | | | | | | |
|  | **24.501** | **CR** | **4414** | **rev** | **-** | **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:*** | Length information correction of two type 4 IEs | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Source to WG:*** | vivo | | | | | | | | | |
| ***Source to TSG:*** | C1 | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Work item code:*** | 5GProtoc17 | | | | |  | ***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 length information of the 5GS update type IE is uncompleted.  “*The 5GS update type is a type 4 information element.*” | | | | | | | | |
|  | |  | | | | | | | | |
| ***Summary of change:*** | | Complete the length information for the 5GS update type IE. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Consequences if not approved:*** | | Uncompleted length information for the IE. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Clauses affected:*** | | 9.11.3.9A | | | | | | | | |
|  | |  | | | | | | | | |
|  | | **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 \* \* \* \*

#### 9.11.3.9A 5GS update type

The purpose of the 5GS update type IE is to allow the UE to provide additional information to the network when performing a registration procedure.

The 5GS update type information element is coded as shown in figure 9.11.3.9A.1 and table 9.11.3.9A.1.

The 5GS update type is a type 4 information element with a length of 3 octects.

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 8 | | 7 | | 6 | 5 | | 4 | 3 | | 2 | | 1 | |  | |
| 5GS update type IEI | | | | | | | | | | | | | | octet 1 | |
| Length of 5GS update type | | | | | | | | | | | | | | octet 2 | |
| 0  Spare | | 0  Spare | | EPS- PNB-CIoT | | | 5GS-PNB-CIoT | | | NG-RAN-RCU | | SMS requested | | octet 3 | |

Figure 9.11.3.9A.1: 5GS update type information element

Table 9.11.3.9A.1: 5GS update type information element

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| SMS over NAS transport requested (SMS requested) (octet 3, bit 1) | | | | |
| Bit | | | | |
| 1 | |  |  | |
| 0 | |  | SMS over NAS not supported | |
| 1 | |  | SMS over NAS supported | |
|  | | | | |
| NG-RAN Radio Capability Update (NG-RAN-RCU) (octet 3, bit 2) | | | | |
| Bit | | | | |
| 2 | |  |  | |
| 0 | |  | UE radio capability update not needed | |
| 1 | |  | UE radio capability update needed | |
| For a list of RATs for which a radio capability update can be triggered by means of this indication see subclause 5.5.1.3.2, case n). | | | | |
| 5GS Preferred CIoT network behaviour (5GS PNB-CIoT) (octet 3, bits 3 and 4) | | | |
|  | | | |
| Bits | | | |
| 4 | | 3 |  |
| 0 | | 0 | no additional information |
| 0 | | 1 | control plane CIoT 5GS optimization |
| 1 | | 0 | user plane CIoT 5GS optimization |
| 1 | | 1 | reserved |
|  | | | | |
| EPS Preferred CIoT network behaviour (EPS-PNB-CIoT) (octet 3, bits 5 and 6) | | | | |
|  | | | | |
| Bits   |  |  |  | | --- | --- | --- | | 6 | 5 |  | | | | | |
| |  |  |  | | --- | --- | --- | | 0 | 0 | no additional information | | 0 | 1 | control plane CIoT EPS optimization | | 1 | 0 | user plane CIoT EPS optimization | | 1 | 1 | reserved | | | | | |
|  | | | | |
|  | | | |
| Bits 7 to 8 of octet 3 are spare and shall be coded as zero. | | | | |

\* \* \* End of Changes \* \* \* \*