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

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

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| --- |
| *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 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 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 |
| 0Spare | 0Spare | 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 |  |

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|

|  |  |  |
| --- | --- | --- |
| 0 | 0 | no additional information |
| 0 | 1 | control plane CIoT EPS optimization |
| 1 | 0 | user plane CIoT EPS optimization |
| 1 | 1 | reserved |

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|  |
|  |
| Bits 7 to 8 of octet 3 are spare and shall be coded as zero. |

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