**3GPP TSG-CT WG1 Meeting #125-eC1-20XXXX**

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

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| *CR-Form-v12.0* | | | | | | | | |
| **CHANGE REQUEST** | | | | | | | | |
|  | | | | | | | | |
|  | **24.501** | **CR** | **2464** | **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:*** | Clarification on the applicability of Allowed PDU session status IE to MA PDU | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Source to WG:*** | MediaTek Inc. | | | | | | | | | |
| ***Source to TSG:*** | C1 | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Work item code:*** | ATSSS, 5GProtoc16 | | | | |  | ***Date:*** | | | 2020-08-26 |
|  |  | | | |  | |  | | |  |
| ***Category:*** | **F** |  | | | | | ***Release:*** | | | Rel-16 |
|  | *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 single access (SA) PDU sessions, it cannot be dual-legged (i.e., user plane resources cannot be established on both 3GPP access and non-3GPP access), and consequently if the UE want a SA PDU session associated with one access to be switched to another access, a "switch leg from one access to another" mechanism is needed for SA PDU session, the "Allowed PDU session status IE" is a mechanism for the UE to swith the leg from non-3GPP access to 3GPP access.  However, for MA PDU sessions, it can be dual-legged (i.e., user plane resources can be established on both 3GPP access and non-3GPP access). UE can add user plane resources on both legs directly and thus there is no need for a mechanism to "switch leg from one access to another". | | | | | | | | |
|  | |  | | | | | | | | |
| ***Summary of change:*** | | "Allowed PDU session status IE" is only applicable for SA PDU sessions. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Consequences if not approved:*** | | Leg switching mechanism is applicable for MA PDU sessions, but such kind of mechanism is not properly defined for an MA PDU session. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Clauses affected:*** | | 9.11.3.13 | | | | | | | | |
|  | |  | | | | | | | | |
|  | | **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:*** | |  | | | | | | | | |

\*\*\* change \*\*\*

#### 9.11.3.13 Allowed PDU session status

The purpose of the Allowed PDU session status information element is to indicate to the network user-plane resources of PDU sessions associated with non-3GPP access that are allowed to be re-established over 3GPP access or if there is no PDU session(s) for which the UE allows the user-plane resources to be re-established over 3GPP access.

NOTE: Allowed PDU session status IE is not applicable for MA PDU session(s) in this release of specification.

The Allowed PDU session status information element is coded as shown in figure 9.11.3.13.1 and table 9.11.3.13.1.

The Allowed PDU session status is a type 4 information element with minimum length of 4 octets and maximum length of 34 octets.

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 8 | 7 | 6 | 5 | 4 | 3 | 2 | 1 |  |
| Allowed PDU session status IEI | | | | | | | | octet 1 |
| Length of Allowed PDU session status contents | | | | | | | | octet 2 |
| PSI  (7) | PSI  (6) | PSI  (5) | PSI  (4) | PSI  (3) | PSI  (2) | PSI  (1) | PSI  (0) | octet 3 |
| PSI  (15) | PSI  (14) | PSI  (13) | PSI  (12) | PSI  (11) | PSI  (10) | PSI  (9) | PSI  (8) | octet 4 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |  |
| Spare | | | | | | | | octet 5\* -34\* |

Figure 9.11.3.13.1: Allowed PDU session status information element

Table 9.11.3.13.1: Allowed PDU session status information element

|  |
| --- |
| PSI(x) shall be coded as follows:  PSI(0):  Bit 1octet 3 is spare and shall be coded as zero.  PSI(1) – PSI(15):  0 indicates that the user-plane resources of corresponding PDU session is not allowed to be re-established over 3GPP access.  1 indicates that the user-plane resources of corresponding PDU session can be re-established over 3GPP access.  If there is no PDU session for which the user-plane resources can be re-established over 3GPP access, all bits in PSI(1) – PSI(15) shall be coded as zero.  All bits in octet 5 to 34 are spare and shall be coded as zero, if the respective octet is included in the information element. |

\*\*\* end of change \*\*\*