**3GPP TSG-CT WG1 Meeting #133-eC1-217262**

**E-meeting, 11-19 November 2021**

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| *CR-Form-v12.1* | | | | | | | | |
| **CHANGE REQUEST** | | | | | | | | |
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|  | **24.301** | **CR** | 3628 | **rev** | **1** | **Current version:** | **17.4.1** |  |
|  | | | | | | | | |
| *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 |  | Radio Access Network |  | Core Network | **X** |

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| ***Title:*** | UUAA re-authentication, re-authorization, and revocation | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Source to WG:*** | Qualcomm Incorporated | | | | | | | | | |
| ***Source to TSG:*** | C1 | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Work item code:*** | ID\_UAS | | | | |  | ***Date:*** | | | 11/02/2021 |
|  |  | | | |  | |  | | |  |
| ***Category:*** | **B** |  | | | | | ***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)* | |
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| ***Reason for change:*** | | Either USS or PGW/SMF can trigger re-authentication or re-authorization of UUAA for the UAV. If re-authentication or re-authorization fails, the connection shall be released. If UUAA revocation is initiated, the connection shall be released.  This requirement is not captured in EPS. | | | | | | | | |
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| ***Summary of change:*** | | Adding general requirement for re-authentication, re-authorization, and revocation of UUAA. | | | | | | | | |
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| ***Consequences if not approved:*** | | Stage-3 operation is missing when re-authentication, re-authorization, or revocation of UUAA occurs. | | | | | | | | |
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| ***Clauses affected:*** | | 6.3.13.2 | | | | | | | | |
|  | |  | | | | | | | | |
|  | | **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:*** | | In rev#1, editorial change was made. | | | | | | | | |

1ST CHANGE

#### 6.3.13.2 Authentication and authorization of UAV

The UE supporting UAS services may request a PDN connection for USS communication during attach and UE-requested PDN connectivity procedures (see clause 5.5.1 and 6.5.1). In the request of the PDN connection for USS communication, the UE provides CAA-level UAV ID to the network via the protocol configuration options and the network may decide to perform UUAA-SM procedure. A UE supporting UAS services may provide to the network the USS address or USS FQDN via the protocol configuration options during attach and UE-requested PDN connectivity procedures so that the network may use the information to discover the USS.

After successful UUAA-SM procedure, the network may initiate re-authentication or re-authorization of the UE supporting UAS services as a part of network-initiated EPS bearer context modification procedure. If UUAA-SM fails during a re-authentication or a re-authorization, or if the revocation of UUAA is initiated by the network, then the associated PDN connection for USS communication is released.

Editor's Note: It is FFS whether other ESM procedures can be used for UUAA-SM.