**3GPP TSG-CT WG3 Meeting #121-eC3-222070**

**E-Meeting, 6th – 12th April 2022**

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| *CR-Form-v12.1* | | | | | | | | |
| **CHANGE REQUEST** | | | | | | | | |
|  | | | | | | | | |
|  | **29.522** | **CR** | **0560** | **rev** | **-** | **Current version:** | **17.5.0** |  |
|  | | | | | | | | |
| *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:*** | AfId related EN resolution. | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Source to WG:*** | Nokia, Nokia Shanghai Bell, Ericsson | | | | | | | | | |
| ***Source to TSG:*** | CT3 | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Work item code:*** | AKMA-CT | | | | |  | ***Date:*** | | | 2022-03-30 |
|  |  | | | |  | |  | | |  |
| ***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:*** | | On the UE side, the usage of AF\_ID is handled by the Application layer itself that requested NAS layer to derive AKMA keys.  As per Ts 24.501, cl 4.21:  Upon receiving a request from the upper layers to obtain AKMA Anchor Key (KAKMA) and AKMA Key Identifier (A-KID), the UE supporting AKMA shall derive the KAKMA and the AKMA Temporary Identifier (A-TID) from the valid KAUSF if available as specified in 3GPP TS 33.535 [24A], shall further derive the A-KID from the A-TID as specified in 3GPP TS 33.535 [24A] and shall provide KAKMA and A-KID to the upper layers.  NOTE 1: The upper layers derive the AKMA Application Key (KAF) from KAKMA as specified in 3GPP TS 33.535 [24A].  As per Ts 33.535, cl A.4, AF\_ID = FQDN of the AF || Ua\* security protocol identifier, where the Ua\* security protocol identifier is specified as Ua security protocol identifier in Annex H of TS 33.220 [4].  Hence, there is no dependency with CT1 about how to define the AF\_ID as it is related to application itself. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Summary of change:*** | | EN related to AfId is removed in clause 5.14.5.4.2 due to above reasoning. | | | | | | | | |
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| ***Consequences if not approved:*** | | Incomplete requirements. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Clauses affected:*** | | 5.14.5.4.2 | | | | | | | | |
|  | |  | | | | | | | | |
|  | | **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 does not impact the OpenAPI file. | | | | | | | | |
|  | |  | | | | | | | | |
| ***This CR's revision history:*** | |  | | | | | | | | |

\* \* \* First Change \* \* \* \*

##### 5.14.5.4.2 Simple data types

The simple data types defined in table 5.14.5.4.2-1 shall be supported.

Table 5.14.5.4.2-1: Simple data types

|  |  |  |  |
| --- | --- | --- | --- |
| Type Name | Type Definition | Description | Applicability |
| AfId | string | Identification of AF which is formatted as the following string:  "<FQDN>.<Ua\* security protocol id>", wherein, <FQDN> is the FQDN of the AF and <Ua\* security protocol id> is a string of 5 octet and the identification of the Ua\* security protocol is specified as Ua security protocol identifier in Annex H of 3GPP TS 33.220 [39] that the AF will use with the UE.  Example:  1. FQDN: [www.app1.com](http://www.app1.com), Ua\* security protocol id: 0100BC0001, then AfId: [www.app1.com.0100BC0001](http://www.app1.com0100BC0001) |  |
| AKId | string | AKMA Key Identifier shall be in NAI format as specified in subclause 2.2 of IETF RFC 7542 [40], which is formatted as the following string:  "<username>@<realm>", wherein, <username> shall include routing identifier and the A-TID, <realm> shall include Home Network Id. |  |

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