**3GPP TSG-CT3 Meeting #136 *C3-244086***

**Maastricht, The Netherlands, 19th – 23rd August 2024**

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| *CR-Form-v12.3* | | | | | | | | |
| **CHANGE REQUEST** | | | | | | | | |
|  | | | | | | | | |
|  | **22** | **CR** | **1327** | **rev** |  | **Current version:** |  |  |
|  | | | | | | | | |
| *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:*** | Clarification regarding AfId used in AKMA services. | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Source to WG:*** |  | | | | | | | | | |
| ***Source to TSG:*** |  | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Work item code:*** | TEI18, AKMA-CT | | | | |  | ***Date:*** | | |  |
|  |  | | | |  | |  | | |  |
| ***Category:*** | **F** |  | | | | | ***Release:*** | | |  |
|  | *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-17 (Release 17) Rel-18 (Release 18) Rel-19 (Release 19)  Rel-20 (Release 20)* | |
|  |  | | | | | | | | | |
| ***Reason for change:*** | | AfId is most commonly defined attribute indicating Application Identifier across many API's and is usually represented as a string.  But in case of AKMA API, we have a stage-2 requirement that requires AfId to be defined, also considering Ua\* security protocol.  This may cause confusion among the implementors on defining and using AfId in AKMA API compared to AfId defined and used in other APIs and hence clarification is required. | | | | | | | | |
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| ***Summary of change:*** | | Update clause 4.4.23.2 regarding "AfId" definition. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Consequences if not approved:*** | | 1. May lead to confusion leading to incorrect or inconsistent implementation of "AfId" in the APIs resulting in interworking issues. | | | | | | | | |
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| ***Clauses affected:*** | | 4.4.23.2 | | | | | | | | |
|  | |  | | | | | | | | |
|  | | **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 any open API defined in this specification. | | | | | | | | |
|  | |  | | | | | | | | |
| ***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 clause 2.2 of IETF RFC 7542 [40], which is formatted as the following string:  "<username>@<realm>", wherein, <username> shall include Routing Indicatorand the A-TID in the format "rid<value>.atid<value>", where "rid" and "atid" are labels indicating Routing Indicator and A-TID and <realm> shall include Home Network Id.  Example:  1. If Routing Indicator: 012, A-TID: 019345346 and Home Network Id: 5gc.mnc012.mcc345.3gppnetwork.org, then AKId: rid012.akid019345346@5gc.mnc012.mcc345.3gppnetwork.org  Routing Indicator, Home Network Id are specified in 3GPP TS 23.003 [55].  A-TID is specified in 3GPP TS 33.535 [38]. |  |

NOTE: This AfId encoding can be different from the commonly used AfId attribute in other APIs, which is encoded as simple string to identify an Application Function.

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