**3GPP TSG-SA3 Meeting #100e *S3-201944***

**e-meeting, 17 – 28 August 2020**

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| *CR-Form-v12.0* |
| **CHANGE REQUEST** |
|  |
|  |  | **CR** |  | **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 | **X** | Radio Access Network |  | Core Network | **X** |

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|  |
| ***Title:***  | Corrections to AKMA key lifetimes  |
|  |  |
| ***Source to WG:*** | Qualcomm Incorporated |
| ***Source to TSG:*** | S3 |
|  |  |
| ***Work item code:*** | AKMA |  | ***Date:*** | 05/08/2020 |
|  |  |  |  |  |
| ***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 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-12 (Release 12)**Rel-13 (Release 13)Rel-14 (Release 14)Rel-15 (Release 15)Rel-16 (Release 16)* |
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| ***Reason for change:*** | AKMA context should not be removed as a result of unsuccessful authentication; Duplicated specification text |
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| ***Summary of change:*** | Removal of text that inidcates removal of AKMA context; Removal of duplicated specification text and editorial corrections |
|  |  |
| ***Consequences if not approved:*** | Incorrect specification leading to security issue; Unclear and duplicated specification text remains |
|  |  |
| ***Clauses affected:*** | 5.2 |
|  |  |
|  | **Y** | **N** |  |  |
| ***Other specs*** |  | **N** |  Other core specifications  | TS/TR ... CR ...  |
| ***affected:*** |  | **N** |  Test specifications | TS/TR ... CR ...  |
| ***(show related CRs)*** |  | **N** |  O&M Specifications | TS/TR ... CR ...  |
|  |  |
| ***Other comments:*** |  |
|  |  |
| ***This CR's revision history:*** |  |

**\*\*\*\* START OF CHANGES \*\*\*\***

## 5.2 AKMA key lifetimes

The KAKMA and A-KID are valid until the next successful primary authentication is performed (implicit lifetime), in which case the KAKMA and A-KID are replaced.

AKMA Application Keys KAF shall use explicit lifetimes based on the operator's policy. The lifetime of KAF shall be sent by the AAnF as described in clauses 6.2 and 6.3. In case that a new AKMA Anchor Key KAKMA is established, the AKMA Application Key KAF can continue to be used until its lifetime expires. When the KAF lifetime expires, a new AKMA Application Key is established based on the current AKMA Anchor Key KAKMA.

**\*\*\*\* END OF CHANGES \*\*\*\***