**3GPP TSG-SA3 Meeting #106-e  *draft\_S3-220301-r1***

**e-meeting, 14 - 25 February 2021**

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| *CR-Form-v12.1* | | | | | | | | |
| **CHANGE REQUEST** | | | | | | | | |
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|  | **33.535** | **CR** | **0122** | **rev** | **1** | **Current version:** | **17.4.0** |  |
|  | | | | | | | | |
| *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:*** | Clarification on indication to UE when KAF is expired | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Source to WG:*** | LG Electronics | | | | | | | | | |
| ***Source to TSG:*** | S3 | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Work item code:*** | AKMA | | | | |  | ***Date:*** | | | 2022-02-07 |
|  |  | | | |  | |  | | |  |
| ***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:*** | | This CR is for a clarification on the case where the access request from UE to AF is rejected when the KAF is expired. Currently it is specified that the AF just rejects UE's access to the AF based on its policy so it is unclear how the UE can understand and handle the case when the access request is rejected. It could be application specific, but it would be helpful for the application developer to efficiently implement the AKMA system if the specification mentions the AF could provide the reason for the rejection.  Thus, this CR proposes to specify that the AF may provide a cause indicating the reason why the request is rejected so that UE can decide a proper action when this case happens. | | | | | | | | |
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| ***Summary of change:*** | | It is proposed to clarify that AF should provide the UE a cause expressing why the requested access is rejected when the KAF is expired. | | | | | | | | |
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| ***Consequences if not approved:*** | | UE will not able to know why the access to the AF is rejected so cannot determine exactly what to do next. | | | | | | | | |
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| ***Clauses affected:*** | | 6.4.2 | | | | | | | | |
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|  | | **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:*** | |  | | | | | | | | |

\*\*\* START OF CHANGE \*\*\*

### 6.4.2 KAF re-keying

The KAF re-keying depends on the lifetime of the KAF and may be trigged by the AF, which means that when a new KAKMA is derived, the KAF will not be re-keyed automatically.

When the lifetime of KAF expires, the AF may reject UE’s access to the AF or refresh the KAF as description in clause 6.4.3 based on its policy. If the AF chooses to reject UE’s access, the AF may provide a cause indicating that the KAF has expired via Ua\* protocol specific means so that the UE can take appropriate action. If there has been a change of KAUSF (e.g., due to a successful run of primary authentication), the UE may re-try accessing the AF by using the A-KID derived from the new KAUSF.

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