**3GPP TSG-SA3 Meeting #110Ad-Hoc-e *draft\_S3-231848-r1***

**Electronic meeting, Online, 17 - 21 April 2023**

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| *CR-Form-v12.1* |
| **DRAFT CHANGE REQUEST** |
|  |
|  | **33.535** | **CR** | **other** | **rev** | **-** | **Current version:** | **17.8.0** |  |
|  |
| *For* ***[HE](http://www.3gpp.org/3G_Specs/CRs.htm%22%20%5Cl%20%22_blank)******[LP](http://www.3gpp.org/3G_Specs/CRs.htm%22%20%5Cl%20%22_blank)*** *on using this form: comprehensive instructions can be found at <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:***  | Draft CR to TS 33.535-Kakma refresh |
|  |  |
| ***Source to WG:*** | ZTE |
| ***Source to TSG:*** | S3 |
|  |  |
| ***Work item code:*** | HN\_Auth |  | ***Date:*** | 2023-04-07 |
|  |  |  |  |  |
| ***Category:*** | **B** |  | ***Release:*** | Rel-18 |
|  | *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-15 (Release 15)Rel-16 (Release 16)Rel-17 (Release 17)Rel-18 (Release 18)* |
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| ***Reason for change:*** | In TS 33.535, the KAKMA can only be re-keyed by running a successful primary authentication. The ability of the home network to trigger primary authentication has been studied in TR 33.741. It can benefit from this feature for AKMA services to have KAKMA refreshed. |
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| ***Summary of change:*** | This CR proposes to add a new feature for explicit triggering of KAKMA refresh. |
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| ***Consequences if not approved:*** | The AKMA service for UE cannot perform. |
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| ***Clauses affected:*** | 6.4.1 |
|  |  |
|  | **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 \*\*\*\*

### 6.4.1 KAKMA re-keying

KAKMA shall be re-keyed by running a successful primary authentication as described in clause 6.1.

When a UE has an AKMA indication in the UDM but its KAKMA in AAnF is invalid e.g., based on operator policy KAKMA lifetime and KAF lifetime is set same as the lifetime of the authentication and if the KAKMA lifetime expires it can be considered as invalid, the UDM may trigger the primary authentication to generate a new KAUSF and a new KAKMA.

\*\*\*\* END OF CHANGE \*\*\*\*