**3GPP TSG-SA3 Meeting #116 *draft\_S3-241905\_r1***

Jeju, South Korea, 20th - 24th May 2024

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| *CR-Form-v12.1* | | | | | | | | |
| **CHANGE REQUEST** | | | | | | | | |
|  | | | | | | | | |
|  | **33.535** | **CR** | **0213** | **rev** | **-** | **Current version:** | **18.3.0** |  |
|  | | | | | | | | |
| *For* ***[HE](http://www.3gpp.org/3G_Specs/CRs.htm" \l "_blank)******[LP](http://www.3gpp.org/3G_Specs/CRs.htm" \l "_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:*** | CR to update the AKMA service disabling procedure | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Source to WG:*** | ZTE Corporation | | | | | | | | | |
| ***Source to TSG:*** | S3 | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Work item code:*** | AKMA | | | | |  | ***Date:*** | | | 2024-05-13 |
|  |  | | | |  | |  | | |  |
| ***Category:*** | F |  | | | | | ***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 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:*** | | Clause 6.8 is the AKMA service disabling for AF. In the existing procedure, the AF may stop the UE service after receiving the AKMA Service Disable Notification. But the AKMA context for the UE still stored in the AF. The AKMA context need to be removed from the AF, otherwise the UE can still access the AKMA service even after the service is disabled. | | | | | | | | |
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| ***Summary of change:*** | | Update the AKMA service disabling procedure with AKMA context removal. | | | | | | | | |
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| ***Consequences if not approved:*** | | UE can still access the AKMA service even after the service is disabled. | | | | | | | | |
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| ***Clauses affected:*** | | 6.8 | | | | | | | | |
|  | |  | | | | | | | | |
|  | | **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 1st Changes \*\*\*\*\*\*\*\*\*\*\*\*\*

## 6.8 Notification about AKMA service disabling

This procedure is used when the AKMA sessions have already been started (before roaming was detected), and as soon as PLMN change is detected at the AAnF, the AAnF may execute this procedure based on the roaming policy.



Figure 6.8.1-1: AAnF notification to AF about AKMA service disable

1. UE registers with a (H)PLMN.

2. UE is accessing the AF and key material is provided to AF as described in 6.2.1. While accessing the AAnF, AF may also provide the Notification URI.

3. UE is getting registered in a VPLMN and AAnF detects the PLMN change via the Nudm\_EventExposure\_Notification received from UDM.

4. AAnF determines if AF(s) have subscribed to receive notifications for AKMA service disabling and roaming policy is configured and restrict the AKMA access in the VPLMN; if yes, steps 5 and 6 are executed. Otherwise, steps 5 and 6 are skipped.

5. If AF(s) are determined at step 4, the AAnF shall send notifications to the subscribed AF(s) about AKMA roaming via Naanf\_AKMA\_ServiceDisableNotification.

6. The AF shall send the response. Based on the notification, the AF may stop the UE service and remove the AKMA related key material (e.g. A-KID, KAF and KAF expiration time) of the UE.

\*\*\*\*\*\*\*\*\*\*\*\*\* End of 1st Changes \*\*\*\*\*\*\*\*\*\*\*\*\*