**3GPP TSG-CT3 Meeting #136 *C3-244084***

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

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| *CR-Form-v12.3* | | | | | | | | |
| **CHANGE REQUEST** | | | | | | | | |
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|  | **29.522** | **CR** | **1325** | **rev** | **-** | **Current version:** | **18.6.0** |  |
|  | | | | | | | | |
| *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:*** | Clarify AF disabling encryption for roaming UE for AKMA services. | | | | | | | | | |
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| ***Source to WG:*** | Nokia | | | | | | | | | |
| ***Source to TSG:*** | CT3 | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Work item code:*** | TEI18, AKMA-CT | | | | |  | ***Date:*** | | | 2024-08-12 |
|  |  | | | |  | |  | | |  |
| ***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-17 (Release 17) Rel-18 (Release 18) Rel-19 (Release 19)  Rel-20 (Release 20)* | |
|  |  | | | | | | | | | |
| ***Reason for change:*** | | As per SA3 CR S3-242656, its specified that once the AKMA service disable (roaming) notification is received at the AF, the AF can disable the encryption.  TS 33.535, clause 6.8:  7. The AF shall send the response and based on the notification and internal policy, the AF may stop the UE service, may stop the encryption. | | | | | | | | |
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| ***Summary of change:*** | | Clause 4.4.23.3 is updated to include the above condition of AF disabling the encryption on reception of notification. | | | | | | | | |
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| ***Consequences if not approved:*** | | 1. Non compliance with stage-2 requirements. 2. Incorrect feature implemenation, if the AF is unable to disable encryption for the roaming UEs. | | | | | | | | |
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| ***Clauses affected:*** | | 4.4.23.3 | | | | | | | | |
|  | |  | | | | | | | | |
|  | | **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 \*\*\*

#### 4.4.23.3 AKMA Service Disablement Notification

This procedure is used by the NEF to notify a previously subscribed AF of AKMA service disablement information (see also clause 6.8 of 3GPP TS 33.535 [37]).

When AKMA related sessions have already been started (before roaming was detected), and as soon as the PLMN change is detected at the AAnF, the AAnF may execute AKMA service disablement procedure via the NEF based on the roaming policy to indicate to the AF that the AKMA service is disabled.

In order to notify an AF of AKMA service disablement, the NEF shall send an HTTP POST request message to the AF with the request body including the ServiceDisableNotif data structure.

Upon reception of this notification request, the AF shall acknowledge its successful reception by sending a response message with an HTTP "204 No Content" status code.

On failure, the AF shall take proper error handling actions, as specified in clause 5.14.7, and respond to the NEF with an appropriate error status code.

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