**3GPP TSG-SA3 Meeting #107-e  *draft\_S3-220752-r2***

**e-meeting, 16 – 20 May 2022**

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| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| *CR-Form-v12.1* | | | | | | | | |
| **CHANGE REQUEST** | | | | | | | | |
|  | | | | | | | | |
|  | **33.535** | **CR** | **0127** | **rev** | **-** | **Current version:** | **17.5.0** |  |
|  | | | | | | | | |
| *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:*** | Correct AAnF service in clause 6.3 | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Source to WG:*** | ZTE | | | | | | | | | |
| ***Source to TSG:*** | S3 | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Work item code:*** | AKMA | | | | |  | ***Date:*** | | | 2022-05-06 |
|  |  | | | |  | |  | | |  |
| ***Category:*** | **F** |  | | | | | ***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)* | |
|  |  | | | | | | | | | |
| ***Reason for change:*** | | There is no Naanf\_AKMA\_AFKey service in AAnF.The message name is not correct. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Summary of change:*** | | Correct the Naanf\_AKMA\_AFKey message into Naanf\_AKMA\_ApplicationKey\_Get message and change clause 6.2 to 6.2.1. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Consequences if not approved:*** | | The message name is wrong. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Clauses affected:*** | | 6.3 | | | | | | | | |
|  | |  | | | | | | | | |
|  | | **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's revision history:*** | |  | | | | | | | | |

\*\*\* 1st CHANGE \*\*\*

## 6.3 AKMA Application Key request via NEF

Figure 6.3-1 shows the procedure used by the AF to request KAF from the AAnF via NEF, when the AF is located outside the operator's network.



Figure 6.3-1: AKMA Application Key request via NEF

1. When the AF is about to request AKMA Application Key for the UE from the AAnF, e.g. when UE initiates application session establishment request as in clause 6.2.1, the AF discovers the HPLMN of the UE based on the A-KID and sends the request towards the AAnF via NEF service API. The request shall include the A-KID and the AF\_ID.

NOTE: In the case of architecture without CAPIF support, the AF is locally configured with the API termination points for the service. In the case of architecture with CAPIF support, the AF obtains the service API information from the CAPIF core function via the Availability of service APIs event notification or Service Discover Response as specified in TS 23.222 [5].

2. If the AF is authorized by the NEF to request KAF, the NEF discovers and selects an AAnF as defined in clause 6.7.

3. The NEF sends a Naanf\_AKMA\_ApplicationKey\_Get request to the selected AAnF with the A-KID to request the KAF for the UE.

The AAnF shall process the request in the same way as specified in clause 6.2.1 with following changes:

If KAKMA is present in AAnF, the AAnF shall continue with step 4 in this clause.

If KAKMA is not present in the AAnF, the AAnF shall continue with step 5 in this clause with an error response.

4. The AAnF generates the KAF as specified in clause 6.2.1 and sends the response to the NEF with the KAF, the KAF expiration time (KAF exptime) and SUPI.

5. The NEF forwards the response to the AF with the KAF, the KAF expiration time (KAF exptime) and optionally GPSI (external ID). Based on local policy, the NEF uses the Nudm\_SubscriberDataManagement service which is specified in TS 29.503[11] to translate SUPI to GPSI (external ID) and optionally include GPSI (external ID) in the response. The NEF shall not send the SUPI to the AF.

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