**3GPP TSG-SA3 Meeting #107-e  *draft\_S3-220753-r1***

**e-meeting, 16 – 20 May 2022**

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| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| *CR-Form-v12.1* | | | | | | | | |
| **CHANGE REQUEST** | | | | | | | | |
|  | | | | | | | | |
|  | **33.535** | **CR** | **0128** | **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 | **x** | Core Network |  |

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|  | | | | | | | | | | |
| ***Title:*** | NF selects AAnF in clause 6.7 | | | | | | | | | |
|  |  | | | | | | | | | |
| ***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:*** | | The NF in clause 6.6 also perform AAnF discovery and selection, the description about AAnF selection by NF is missing in clause 6.7. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Summary of change:*** | | Add AAnF selection by NF in clause 6.7. | | | | | | | | |
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| ***Consequences if not approved:*** | | Uncompleted specification and may cause some misleading. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Clauses affected:*** | | 6.7 | | | | | | | | |
|  | |  | | | | | | | | |
|  | | **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 \*\*\*

## 6.7 AAnF Discovery and Selection

The NF consumer or the SCP performs AAnF discovery to discover an AAnF instance.

In the case of NF consumer-based discovery and selection, the following applies:

- Internal AFs and the NEF performs AAnF selection to allocate an AAnF Instance that handles the AKMA request. The AF/NEF shall utilize the NRF to discover the AAnF instance(s) unless AAnF information is available by other means, e.g. locally configured on the AF/NEF.

- The AUSF performs AAnF selection to allocate an AAnF Instance to send the AKMA key material related to the UE. The AUSF shall utilize the NRF to discover the AAnF instance(s) unless AAnF information is available by other means, e.g. locally configured on the AUSF.

- The NF specified in clause 6.6 performs AAnF selection to allocate an AAnF Instance to remove the AKMA context related to the UE. The NF shall utilize the NRF to discover the AAnF instance(s) unless AAnF information is available by other means, e.g. locally configured on the the NF specified in clause 6.6.

The AAnF selection functionality in NF consumer or in SCP should consider the following factor:

- the UE's Routing Indicator.

NOTE 1: The AF/NEF obtains the Routing Indicator as part of the A-KID in the AKMA request. The AUSF obtains the Routing Indicator within the Nudm\_UEAuthentication\_Get Response from the UDM.

Internal AFs, the NEF and the AUSF shall select the same AAnF set based on the UE’s Routing Indicator.

When the UE's Routing Indicator is set to its default value as defined in TS 23.003 [9], the AAnF NF consumer can select any AAnF instance within the home network of the UE.

NOTE 2: In scenarios where multiple sets of AAnFs are deployed, it is left up to implementation how to ensure that the AAnF NF consumers select an AAnF instance within the AAnF set the UE belongs to when the UE's Routing Indicator is set to its default value.

In the case of delegated discovery and selection in SCP, the AAnF NF consumer shall send all available factors to the SCP.

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