**3GPP TSG-SA3 Meeting #106-e *S3-220413-r2***

**e-meeting, 14 - 25 February 2022**

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| *CR-Form-v12.1* | | | | | | | | |
| **CHANGE REQUEST** | | | | | | | | |
|  | | | | | | | | |
|  | **33.501** | **CR** | **1344** | **rev** | **1** | **Current version:** | **17.4.2** |  |
|  | | | | | | | | |
| *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:*** | Rel-17 Clarification of the Registration Request handling for the direct AMF re-allocation | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Source to WG:*** | Ericsson | | | | | | | | | |
| ***Source to TSG:*** | S3 | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Work item code:*** | TEI17 | | | | |  | ***Date:*** | | | 2022-02-07 |
|  |  | | | |  | |  | | |  |
| ***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:*** | | SA2 has endorsed CR S2-2107865/S2-2108374 which specifies the handling of the Registration Request forwarding for the direct case of the AMF re-allocation in TS 23.502, clause 4.2.2.2.3. Currently TS 33.501 does not include a corresponding requirement. | | | | | | | | |
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| ***Summary of change:*** | | A requirement is added that the initial AMF shall forward the clear text Registration Request to the target AMF upon direct AMF re-allocation. | | | | | | | | |
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| ***Consequences if not approved:*** | | Unclear specification. | | | | | | | | |
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| ***Clauses affected:*** | | 6.9.6 | | | | | | | | |
|  | |  | | | | | | | | |
|  | | **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:*** | |  | | | | | | | | |

### \*\*\* BEGIN CHANGES \*\*\*

### 6.9.6 Security handling in registration with AMF reallocation via direct NAS reroute

In registration with AMF reallocation via direct NAS reroute, the initial AMF shall send the complete Registration Request in clear text to the target AMF.

In registration with AMF reallocation via direct NAS reroute, the initial AMF shall use its local policy to determine whether to perform horizontal KAMF derivation on current KAMF. As described in Clause 6.9.3, if the initial AMF decides not to change KAMF, the initial AMF shall send the current security context to the target AMF; otherwise, the initial AMF shall derive new security context and send to the target AMF the derived security context and the indication of horizontal KAMF derivation (i.e., keyAmfHDerivationInd).

If the target AMF receives the indication of horizontal KAMF derivation (i.e., keyAmfHDerivationInd) from the initial AMF, it shall initiate NAS SMC. If the target AMF does not receive keyAmfHDerivationInd, the target AMF shall use the received security context from initial AMF and send protected NAS message including protected authentication request message if authentication is needed. The target AMF decides whether to perform authentication based on local policy.

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