**3GPP TSG-SA3 Meeting #114e *ad-hoc draft\_S3-240053-r1***

Electronic meeting, online, 22 - 26 January 2024

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| *CR-Form-v12.1* | | | | | | | | |
| **CHANGE REQUEST** | | | | | | | | |
|  | | | | | | | | |
|  | **33.511** | **CR** | **0056** | **rev** | **1** | **Current version:** | **18.2.0** |  |
|  | | | | | | | | |
| *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 |  |

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|  | | | | | | | | | | |
| ***Title:*** | Change serving network name to gNB | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Source to WG:*** | Huawei; HiSilicon | | | | | | | | | |
| ***Source to TSG:*** | S3 | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Work item code:*** | SCAS\_5G\_Ph3 | | | | |  | ***Date:*** | | | 2024-01-22 |
|  |  | | | |  | |  | | |  |
| ***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:*** | | In SA3#111 meeting, quoted issue was addressed, but one more is left. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Summary of change:*** | | Deleted the quotation marks. Change “serving netowkr “ to “gNB/Ng-eNB”. | | | | | | | | |
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| ***Consequences if not approved:*** | | Quoted issue is not addressed. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Clauses affected:*** | | 4.2.2.1.12 | | | | | | | | |
|  | |  | | | | | | | | |
|  | | **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 of Change\*\*\*\*\*\*\*\*\*\*\*\*\*

##### 4.2.2.1.12 AS algorithms selection

*Requirement Name*: AS algorithms selection

*Requirement Reference:* TS 33.501 [2], clause 6.7.3.0 and clause 5.11.2.

*Requirement Description*:The gNB selects the algorithms to use dependent on: the UE security capabilities of the UE, the configured allowed list of security capabilities of the currently gNB as specified in TS 33.501 [2], clause 5.11.2.

Each gNB is configured via network management with lists of algorithms which are allowed for usage. There is one list for integrity algorithms, and one for ciphering algorithms. These lists are ordered according to a priority decided by the operatoras specified in TS 33.501 [2], clause 6.7.3.0.

*Threat References*: TR 33.926 [5], D.2.2.5 – AS algorithm selection and use

*Test Case*:

Test Name: TC-AS-alg-select\_gNB

**Purpose:**

Verify that the gNB selects the algorithms with the highest priority in its configured list.

**Pre-Conditions:**

Test environment with the gNB has been pre-configured with allowed security algorithms with priority.

**Execution Steps**

1) The UE sends registration request message to the gNB.

2) The gNB receives UE context setup request message.

3) The gNB sends the AS SECURITY MODE COMMAND message.

4) The UE replies with the AS SECURITY MODE COMPLETE message.

**Expected Results:**

The gNB initiates the SECURITY MODE COMMAND message that includes the chosen algorithm with the highest priority according to the ordered lists and is contained in the UE NR security capabilities.

The MAC in the AS SECURITY MODE COMPLETE message is verified, and the AS protection algorithms are selected and applied correctly.

**Expected format of evidence:**

Sample copies of the log files.

\*\*\*\*\*\*\*\*\*\*\*\*\* End of Change\*\*\*\*\*\*\*\*\*\*\*\*\*