**3GPP TSG-SA3 Meeting #108e *S3-222098***

**e-meeting, 22 - 26 August 2022**

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| *CR-Form-v12.1* |
| **DRAFT CHANGE REQUEST** |
|  |
|  | **33.216** | **CR** | **DRAFT CR** | **rev** | **-** | **Current version:** | **16.7.0** |  |
|  |
| *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:***  | eNB checks UP IP capability |
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| ***Source to WG:*** | Huawei, HiSilicon |
| ***Source to TSG:*** | S3 |
|  |  |
| ***Work item code:*** | SCAS\_5G\_Ph2 |  | ***Date:*** | 2022-08-22 |
|  |  |  |  |  |
| ***Category:*** | **B** |  | ***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 canbe 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)* |
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| ***Reason for change:*** | eNB has supported UP IP, so the corresponding test case needs to be added. |
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| ***Summary of change:*** | Add a new requirement and test case |
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| ***Consequences if not approved:*** | Inaccurate. |
|  |  |
| ***Clauses affected:*** | new |
|  |  |
|  | **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 1st change\*\*\*\*\*\*\*\*\*

##### 4.2.2.1.x Integrity protection of user data between the UE and the eNB

*Requirement Name:* Integrity protection of user data between the UE and the eNB.

*Requirement Reference:* TS 33.401 [3], clause 5.1.4.

*Requirement Description:* *"*User plane packets between the eNB and the UE may be integrity protected on the Uu interface. *" in clause 5.1.4*

*Threat References:* TBD

***Test Case****:*

**Test Name:** TC-UP-DATA-INT\_eNB

**Purpose:** Toverify that the user data packets are integrity protected over the Uu interface.

**Pre-Condition:**

- The eNB network product shall be connected in emulated/real network environments. UE may be simulated.

- Tester shall have knowledge of integrity algorithm and integrity protection keys.

- The tester can capture the message via the Uu interface, or can capture the message at the UE.

**Execution Steps:**

1. eNB sends RRCConnectionReconfiguration with integrity protection indication "on".

2. Check any User data sent by eNB after sending RRCConnectionReconfiguration and while the UE is in active state is integrity protected.

**Expected Results:**

Any user plane packets sent between UE and eNB over the Uu interface after eNB sending RRCConnectionReconfiguration is integrity protected.

**Expected format of evidence:**

Evidence suitable for the interface e.g. Screenshot containing the operational results.

\*\*\*\*\*\*\*\*\* End of change\*\*\*\*\*\*\*\*\*