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

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

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| *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)*.* | | | | | | | | |
|  | | | | | | | | |

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| ***Proposed change affects:*** | UICC apps |  | ME |  | Radio Access Network |  | Core Network |  |

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | | | | | | | | | | |
| ***Title:*** | eNB checks UP IP capability | | | | | | | | | |
|  |  | | | | | | | | | |
| ***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 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:*** | | eNB has supported UP IP, so the corresponding test case needs to be added. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Summary of change:*** | | Add a new requirement and test case | | | | | | | | |
|  | |  | | | | | | | | |
| ***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\*\*\*\*\*\*\*\*\*