**3GPP TSG-SA3 Meeting #106-e *S3-22GGG2***

e-meeting, 14 – 25 February 2022 (revision of S3-yyxxxx)

**Source: Qualcomm Incorporated, Deutsche Telekom AG, AT&T (to be SA3)**

**Title: New WID on Updates to gNB SCAS including split gNBs**

**Document for: Approval**

**Agenda Item: X.Y**

3GPP™ Work Item Description

Information on Work Items can be found at <http://www.3gpp.org/Work-Items>   
See also the [3GPP Working Procedures](http://www.3gpp.org/specifications-groups/working-procedures), article 39 and the TSG Working Methods in [3GPP TR 21.900](http://www.3gpp.org/ftp/Specs/html-info/21900.htm)

Title: SCAS for gNB updates including split gNBs

Acronym: eSCAS\_gNB

Unique identifier: TBD

Potential target Release: *Rel-18*

# 1 Impacts

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Affects: | UICC apps | ME | AN | CN | Others (specify) |
| Yes |  |  | X |  |  |
| No | X | X |  | X | X |
| Don't know |  |  |  |  |  |

# 2 Classification of the Work Item and linked work items

## 2.1 Primary classification

### This work item is a …

|  |  |
| --- | --- |
| X | Feature |
|  | Building Block |
|  | *Work Task* |
|  | Study Item |

## 2.2 Parent Work Item

For a brand-new topic, use “N/A” in the table below. Otherwise indicate the parent Work Item.

|  |  |  |  |
| --- | --- | --- | --- |
| Parent Work / Study Items | | | |
| Acronym | Working Group | Unique ID | Title (as in 3GPP Work Plan) |
| N/A | N/A | N/A | N/A |

### 2.3 Other related Work Items and dependencies

|  |  |  |
| --- | --- | --- |
| Other related Work /Study Items (if any) | | |
| Unique ID | Title | Nature of relationship |
| 870020 | Security Assurance Specification Enhancements for 5G | Contains updates for gNB relating to Rel-16 |
| 790015 | Security Assurance Specification for 5G | SCAS for 5G |

**Dependency on non-3GPP (draft) specification:** None

# 3 Justification

This WID is to include gNB test cases for new security requirements deriving from 5G R17 features. Also, the current gNB SCAS specification does not specify test cases for split gNB architecture (e.g., CU – DU, CU-CP/CU-UP) as these have not been specified which makes testing such gNB deployments not possible. These should be specified to ease a deployment of split gNBs.

# 4 Objective

The objective is to update 5G SCAS with new 5G R17 security features for gNBs as well as add test cases for split gNB architectures. Specifically, the objectives of this work item are to:

* identify threats and critical assets for 5G R17 for gNB features not already identified in TR 33.926;
* identify specific security functional requirements and related test cases for 5G R17 features in TS 33.511;
* develop more vulnerability testing requirements and related test cases if deemed necessary;
* adopt corrections or potential new security assurance requirements identified during the course of testing practice of 5G SCAS;
* add the necessary test cases for split gNBs (i.e. CU, DU, CU-CP, CU-UP); and
* align with GSMA NESAS specifications as NESAS documents are developed.

# 5 Expected Output and Time scale

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| New specifications {One line per specification. Create/delete lines as needed} | | | | | |
| Type | TS/TR number | Title | For info  at TSG# | For approval at TSG# | Rapporteur |
| N/A | N/A | N/A | N/A | N/A | N/A |

|  |  |  |  |
| --- | --- | --- | --- |
| Impacted existing TS/TR {One line per specification. Create/delete lines as needed} | | | |
| TS/TR No. | Description of change | Target completion plenary# | Remarks |
| TS 33.511 | Add new test cases related to Rel-17 normative specifications  Add tests cases for split gNB | SA #98  Dec 2022 |  |
| TS 33.926 | Add threats and critical assets for 5G R16 for gNB features not already identified in TR 33.926 | SA #98  Dec 2022 |  |

# 6 Work item Rapporteur(s)

Escott, Adrian, Qualcomm Incorporated, aescott@qti.qualcomm.com

# 7 Work item leadership

SA3

# 8 Aspects that involve other WGs

None

# 9 Supporting Individual Members

|  |
| --- |
| Supporting IM name |
| Qualcomm Incorporated |
| Deutsche Telekom AG |
| AT&T |
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