**3GPP TSG-SA3 Meeting #105-eS3-214034-r2**

e-meeting, 8 - 19 November 2021 (revision of S3-yyxxxx)

**Source: Huawei, Hisilicon**

**Title: New WID on SCAS for Rel-17 features on existing functions**

**Document for: Approval**

**Agenda Item: 4.25**

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: Work Item on Security Assurance Specification for 5G Rel-17 Features

Acronym: 5G\_SCAS\_Ph2

Unique identifier:

{A number to be provided by MCC at the plenary}

Potential target Release: Rel-18

# 1 Impacts

{For Normative work, identify the anticipated impacts. For a Study, identify the scope of the study}

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

# 2 Classification of the Work Item and linked work items

## 2.1 Primary classification

### This work item is a Feature

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

## 2.2 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 |
| 620062 | Security Assurance Specification for 3GPP network product | SCAS for LTE |
| 790015 | Security Assurance Specification for 5G | SCAS for 5G |
| 870020 | Security Assurance Specification Enhancements for 5G | SCAS for 5G to include R-16 features |

# 3 Justification

The 5G Release 17 work is approaching completion. The Release 17 features include new network functions and interfaces to support vertical services, additional implementation requirements on dedicated platforms, as well as new deployment scenarios. Examples of such Release 17 features include (but not limited to) the security Aspects of eNPN(eNPN), the Authentication and key management for applications based on 3GPP credential in 5G(AKMA), the ecurity Aspects of Enhancement of Support for Edge Computing in 5GC(MEC), the security aspects of enablers for Network Automation (eNA) for the 5G system, etc..

The work on 5G SCAS for R-17 is expected to include test cases for new security requirements deriving from 5G R17 features.

# 4 Objective

The aim of this work is to update the security assurance related specifications in order to cover the new 5G Release 17 features. More specifically, the objectives are to:

* identify threats and critical assets for 5G Release 17 features not covered in 3GPP TR 33.926;
* identify specific security functional requirements and related test cases for 5G Release 17 features in the 5G SCAS documents;
* 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 Release 17;
* Align with GSMA NESAS specifications on some aspects whenever needed to align with the NESAS documents development;

This work item assumes that the SCAS will be independent of whether the NF is based or not based on virtualization architecture. Impact of virtualization is covered in separate work.

# 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 |
|  NA |  NA |  NA |  NA |  NA |  NA |

|  |
| --- |
| Impacted existing TS/TR {One line per specification. Create/delete lines as needed} |
| TS/TR No. | Description of change  | Target completion plenary# | Remarks |
| TR 33.926 | Update of the threats and critical assets identified from 5G R17 features  | *SA #98*Dec., 2022 |  |
| TS 33.117, TS 33.511, TS 33.512, TS 33.513, TS 33.514, TS 33.515, TS 33.516, TS 33.517, TS 33.518,TS 33.519,TS 33.520,TS 33.521,TS 33.522,TS 33.326 | New security test cases for 5G R17 features |  |  |

# 6 Work item Rapporteur(s)

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# 7 Work item leadership

SA3

# 8 Aspects that involve other WGs

# 9 Supporting Individual Members

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| --- |
| Supporting IM name |
| Huawei |
| HiSilicon |
| Ericsson |
| FutureWei |
| CAICT |
| ZTE |
| China Mobile |
| China Telecom |
| China Unicom |