**3GPP TSG-SA3 Meeting #117 *S3-244910***

**Orlando, US, 11 -15 November 2024**

**Source: China Telecom, ZTE**

**Title: New WID on Security for PLMN hosting a NPN**

**Document for: Approval**

**Agenda Item: 6**

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: Security for PLMN hosting a NPN

Acronym: PLMNNPN

Unique identifier: TBD

Potential target Release: Rel-19

# 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 |  |
| No | 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 …

|  |  |
| --- | --- |
|  | Study  |
|  | Normative – Stage 1 |
| X | Normative – Stage 2 |
|  | Normative – Stage 3 |
|  | Normative – Other\* |

**\* Other = e.g. testing**

## 2.2 Parent Work Item

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|  |
| --- |
| Parent Work / Study Items  |
| Acronym | Working Group | Unique ID | Title (as in 3GPP Work Plan) |
| PLMNNPN\_SEC | SA3 | 1020039 | Study on security for PLMN hosting a NPN |

### 2.3 Other related Work Items and dependencies

|  |
| --- |
| Other related Work /Study Items (if any) |
| Unique ID | Title | Nature of relationship |
|  |  | {optional free text}  |

**Dependency on non-3GPP (draft) specification:**

# 3 Justification

As study on security for PLMN hosting a NPN is getting concluded, we are proposing to start the normative work via this WID.

# 4 Objective

The objective of the study is to provide recommendations, based on the conclusions of KI#2 in TR 33.757, to operators on how to secure the border between PLMN and hosting NPN when dedicated NFs interacting with PLMN through SBA interface. More specifically the following objectives are expected:

* Specifying the recommended security capabilities
* Specifying the recommended routing functionalities.

# 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 |
|  |  |  |  |  |  |
|  |  |  |  |  |  |

|  |
| --- |
| Impacted existing TS/TR {One line per specification. Create/delete lines as needed} |
| TS/TR No. | Description of change  | Target completion plenary# | Remarks |
| TS 33.501 | Security architecture and procedures for 5G system | SA#108June 2025 |  |
|  |  |  |  |

# 6 Work item Rapporteur(s)

Jun Shen (shenjun6@chinatelecom.cn), Yuze Liu (liu.yuze@zte.com.cn)

# 7 Work item leadership

SA3

# 8 Aspects that involve other WGs

# 9 Supporting Individual Members

{At least 4 supporting Individual Members are needed. There is an expectation that these companies will provide resources to progress the work. Note that having 4 supporting companies is a necessary but not sufficient condition: the usual TSG approval process by consensus is needed for the WID approval}

|  |
| --- |
| **Supporting IM name** |
| China Telecom |
| ZTE |
| CATT |
| China Unicom |
| APPLE? |
| Nokia? |
| Nokia Shanghai Bell? |
| China Mobile |
| OPPO? |
| CableLabs? |
| Lenovo? |
| Ericsson? |
| Huawei? |
| Hisilicon? |
| Vivo |