**3GPP TSG-CT WG3 Meeting #135C3-243062r1**

**Hyderabad, IN, 27 - 31 May, 2024**

**Source: Ericsson**

**Title: New WID on CT aspects of Enhancing Parameter Provisioning with static UE IP address and UP security policy**

**Document for: Agreement**

**Agenda Item: 19.1.1**

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: CT aspects of Enhancing Parameter Provisioning with static UE IP address and UP security policy

Acronym: TEI19\_IP\_SP\_EXP

Unique identifier: To be allocated

Potential target Release: Rel-19

# 1 Impacts

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Affects: | UICC apps | ME | AN | CN | Others (AF) |
| Yes |  |  |  | X | 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 |
|  | Normative – Stage 2 |
| X | Normative – Stage 3 |
|  | Normative – Other\* |

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

## 2.2 Parent Work Item

|  |
| --- |
| Parent Work / Study Items  |
| Acronym | Working Group | Unique ID | Title (as in 3GPP Work Plan) |
| TEI19\_IP\_SP\_EXP | SA2 | 1030015 | Enhancing Parameter Provisioning with static UE IP address and UP security policy |

### 2.3 Other related Work Items and dependencies

|  |
| --- |
| Other related Work /Study Items (if any) |
| Unique ID | Title | Nature of relationship |
|  |  |  |

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

# 3 Justification

SP-240121 as new WID "Enhancing Parameter Provisioning with static UE IP address and UP security policy" (TEI19\_IP\_SP\_EXP) which justified the needs for static IP addresses to be assigned to UEs by the external AF e.g., IIoT application, also justified the needs allowing the external AF to define the UP Security Policy for all PDU Sessions in a 5G VN group via exposure API. The objectives in the work item including below 2 WT:

WT 1: Enhance the Parameter Provisioning service with a new Parameter Provisioning payload type to support static UE IP address information.

WT 2: Enhance 5G VN group data with UP Security Policy for the 5G VN group.

SA#103 approved SP-240121 as new WID "Enhancing Parameter Provisioning with static UE IP address and UP security policy " (TEI19\_IP\_SP\_EXP) for SA2 normative work.

Considering the above, impacts on CT aspects of protocols and interfaces under CT WGs' responsibilities are foreseen and the related work in CT WGs should be carried out within Rel-19.

# 4 Objective

The objective of this work item is to specify the stage 3 aspects to enhance Parameter Provisioning with static UE IP address and UP security policy according to stage 2 requirements under the stage 2 work item TEI19\_IP\_SP\_EXP.

The following potential impacts on 3GPP CT working groups are identified (non-exhaustive, additional areas can be identified based on progress in SA2):

CT3

- Potential impacts on NEF Parameter Provisioning APIs supporting to provide static UE IP address information in the CpProvisioning API, 5GLANParameterPrivision API and/or GroupParametersProvisioning API.

- Potential impacts on NEF 5G VN group data provisioning with UP Security Policy for the 5G VN group in the 5GLANParameterPrivision API and/or GroupParametersProvisioning API.

CT4

- Potential impacts on UDM supporting Parameter Provisioning with static UE IP address information and 5G VN group provisioning with UP Security Policy.

# 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 |
| 29.503 | Potential impacts on supporting Parameter Provisioning with static UE IP address information and 5G VN group provisioning with UP Security Policy. | TSG CT#108 (June 2025) | CT4 responsibility |
| 29.522 | 1.Potential impacts on NEF Parameter Provisioning APIs supporting to provide static UE IP address information in the CpProvisioning API, 5GLANParameterPrivision API and/or GroupParametersProvisioning API.2.Potential impacts on NEF 5G VN group data provisioning with UP Security Policy for the 5G VN group in the 5GLANParameterPrivision API and/or GroupParametersProvisioning API. | TSG CT#108 (June 2025) | CT3 responsibility |

# 6 Work item Rapporteur(s)

Maria Tianmei, Liang, Ericsson. maria.liang@ericsson.com

# 7 Work item leadership

CT3

# 8 Aspects that involve other WGs

SA3 for security aspects, if needed (but there should be no impact to SA3 specifications).

# 9 Supporting Individual Members

|  |
| --- |
| Supporting IM name |
| Ericsson |
| Nokia |
| Deutsche Telekom? |
| Siemens AG |
| Telefonica |
| Huawei |
| AT&T |