**3GPP TSG CT WG3 Meeting #130 C3-234094**

**Xiamen China, 09th - 13th October, 2023 (CP-232133)**

**3GPP TSG CT WG4 Meeting #118 C4-234226**

**Xiamen China, 09th - 13th October, 2023 (CP-232133)**

**Source: China Telecom**

**Title: Revised WID on CT aspects on TEI18\_SLAMUP**

**Document For: Approval**

**Agenda Item: 18.1.2**

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 on Spending Limits for AM and UE Policies in the 5GC

Acronym: TEI18\_SLAMUP

Unique identifier: 1000040

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 …

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

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

## 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) |
| TEI18\_SLAMUP | SA2 | 970004 | Spending Limits for AM and UE Policies in the 5GC |

### 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

Policy decisions based on spending limits is a function that allows PCF taking actions related to the status of policy counters that are maintained in the CHF. In R17 this is defined as Session management related policy control (23.503 v17.4 clause 6.1.3).

Some scenarios however have the PCF for a UE make Policy decisions based on spending limits a useful function for access and mobility policy control as well.

Similarly, some other scenarios have the PCF for a UE make Policy decisions based on spending limits a useful function for UE policy control (specifically URSP).

The stage 2 has agreed work item " Spending Limits for AM and UE Policies in the 5GC " (TEI18\_SLAMUP) and the normative work is in progress to meet the requirements above (80% completed).

Hence the CT WGs need to complete the corresponding normative work in stage 3 with following aspect:

* The support of PCF for a UE to use the Nchf\_SpendingLimitControl service to detect the change of a status of policy counters in the CHF allows PCF for a UE to take spending limits into account for the relevant subscribers before making AM/UE policy decision.

# 4 Objective

The objective of this work item is to specify the following stage 3 procedures:

CT3:

* Update AM policy control procedures to take spending limits into account before making policy decisions.
* Update AM/UE policy association procedures and corresponding text to take spending limits into account before PCF making AM/UE policy decision.
* Update AM/UE policy subscription information stored in UDR to indicate whether the PCF must enforce policies based on subscriber spending limits and to indicate the CHF that the PCF may use for spending limit control.
* Update UE policy (only URSP) control procedures to take spending limits into account before making policy decisions.
* Update Nchf\_SpendingLimitControl service to clarify that PCF for a UE interacts with the CHF only applies to non-roaming scenario.

CT4:

* Add new feature to indicate support of SLAMUP in non-roaming scenario.

# 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 |
| 29.507 | Update AM policy control procedures to take spending limits into account before making policy decisions. | CT#102 (December 2023) | CT3 responsibility |
|  |  |  |  |
| 29.513 | Update AM/UE policy association procedures to take spending limits into account before PCF making AM/UE policy decision. | CT#102 (December 2023) | CT3 responsibility |
| 29.519 | Update AM/UE policy subscription information stored in UDR to indicate whether the PCF must enforce policies based on subscriber spending limits and to indicate the CHF that the PCF may use for spending limit control. | CT#102 (December 2023) | CT3 responsibility |
| 29.525 | Update UE policy (only URSP) control procedures to take spending limits into account before making policy decisions. | CT#102 (December 2023) | CT3 responsibility |
| 29.594 | Update Nchf\_SpendingLimitControl service to clarify that PCF for a UE interacts with the CHF only applies to non-roaming scenario. | CT#102 (December 2023) | CT3 responsibility |
| 29.504 | Add new feature to indicate support of SLAMUP in non-roaming scenario. | CT#102 (December 2023) | CT4 responsibility |

# 6 Work item Rapporteur(s)

SUN, Yue, China Telecom, suny20@chinatelecom.cn

# 7 Work item leadership

CT3

# 8 Aspects that involve other WGs

None

# 9 Supporting Individual Members

|  |
| --- |
| Supporting IM name |
| China Telecom |
| Oracle |
| Verizon |
| Ericsson |
| Nokia |
| Nokia Shanghai Bell |
| ZTE |
| Huawei |