3GPP TSG CT WG3 Meeting #137 *C3-245227*

Hefei, CN, 14 - 18 October, 2024 (revision of xx-yyxxxx)

{Guidance text shown in curly brackets, in italics. All guidance text is to be deleted before WID submission.

Note that this form is to be used for all types of Work Item, covering both normative work and/or studies. A Work Item covering only studies is also known as "Study Item", as stated in TR 21.900.}

**Source: Ericsson**

**Title: New WID on Rel-19 Enhancements of UE Policy**

{"Revised" to be used only for WID already approved at plenary. For Revised WIDs, two versions have to be provided in a zip file: a clean one and one with revision marks showing the differences with the previously plenary-approved WID.}

**Document for: Approval**

**Agenda Item: 19.2**

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: Rel-19 Enhancements of UE Policy

Acronym: UEP19

Unique identifier:

Potential target Release: Rel-19

# 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

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

### 2.3 Other related Work Items and dependencies

|  |  |  |
| --- | --- | --- |
| Other related Work /Study Items (if any) | | |
| Unique ID | Title | Nature of relationship |
| [720005](http://www.3gpp.org/DynaReport/WiVsSpec--720005.htm) | New Services and Markets Technology Enablers | Stage 1 requirements |
| [700017](http://www.3gpp.org/DynaReport/WiVsSpec--700017.htm) | Study on Architecture and Security for next Generation System | Stage 2 architectural requirements conclusion, TR 23.799 |
| 750025 | CT aspects on 5G System - Phase 1 | Stage 3, Phase 1. |
| 970025 | Enhancement of 5G UE Policy | Stage 2 |
| 980037 | CT aspects of enhancement of 5G UE Policy | Stage 3 |
| 970010 | Support for 5WWC Phase 2 | Stage 2 |

# 3 Justification

The UE Policy Control service and service procedures have been specified during the previous 3GPP releases.

During development and deployment of the above service, it has been identified that there is a need to apply technical improvements and enhancements (e.g. improve the signaling and processing efficiency, increase the flexibility, enhance the reliability, improve specification clarity, etc.), e.g., in the following areas:

1. UE Policies updates when the USIM is changed from ME-1 to ME-2.

2. Completion of UE Policy Provisioning.

3. Enhancements to the retrieval of Service Parameter Data by the PCF.

4. Completion of failure scenarios for already specified functionality.

5. Completion of Notification of URSP Delivery Outcome.

6. Clarification/completion of UE Policy provisioning procedures, missed in the previous 3GPP Releases, which do not fall under the scope of any other dedicated Rel19 WI.

# 4 Objective

The objective of this work item is to specify the stage 3 procedures related to the technical improvements identified for the following areas:

1. UE Policies updates when the USIM is changed from ME-1 to ME-2.
   1. Specification of required or recommended PCF actions to identify the case when the UE removes the stored UE Policies without an explicit indication from the PCF (e.g. when the USIM is changed from ME-1 to ME-2) in order to avoid incorrect UE Policy provisioning.
2. Enhancements to the retrieval of Service Parameter Data by the PCF.
   1. Specification of the protocol improvements for the PCF to request uniquely Service Parameter Data in the UDR related to UE policies configuration or SM Policy related information
3. Completion of failure scenarios for already specified functionality.
   1. Specification of early detection of failure situations in the NEF.
4. Clarification/completion of UE Policy provisioning procedures, missed in the previous 3GPP Releases, which do not fall under the scope of any other dedicated pre-Rel19 or Rel19 WI.
5. Protocol enhancements and additional identified failure situations related to UE Policy related procedures

# 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 |
| 29.525 | Possible pecification or clarifications of PCF actions to identify that USIM is changed from UE-1 to UE-2.  Potential updates due to UE Policy enhancements and error handling. | CT#109 (September 2025) | CT3 |
|  |  |  |  |
| 29.519 | Protocol improvements for the PCF to request uniquely Service Parameter Data in the UDR related to UE policies configuration or SM Policy related information.  Potential updates due to UE Policy enhancements and error handling. | CT#109 (September 2025) | CT3 |
| 29.522 | Potential updates due UE Policy enhancements and error handling. | CT#109 (September 2025) | CT3 |
| 29.513 | Potential updates due UE Policy enhancements and error handling. | CT#109 (September 2025) | CT3 |

# 6 Work item Rapporteur(s)

CT3

# 7 Work item leadership

Susana Fernández, Ericsson. Susana.fernandez@ericsson.com

# 8 Aspects that involve other WGs

None identified yet.

# 9 Supporting Individual Members

|  |
| --- |
| Supporting IM name |
| Ericsson |
| AT&T |
| Verizon |
| ZTE |
| China Telecom |
| Nokia |