3GPP TSG CT WG3 Meeting #137 *C3-245481*

Hefei, CN, 14 - 18 October, 2024

{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. Completion of UE Policy Provisioning.

2. Potential optimizations towards partial retrieval of UDR Data (Sub)sets in connection with the retrieval of UE policies in a generic way that works for other scenarios.

3. Completion of failure scenarios for already specified functionality.

4. Completion of Notification of URSP Delivery Outcome.

5. 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. Completion of UE Policy Provisioning.
	1. Alignment with stage 2 specifications to define specific actions or recommendations in the PCF for the proper identification of the URSP to increase traffic matching in the UE.
	2. Identification of impacts in the ServiceParameter API based on the extensions performed in the URSP Rule during Release 18 (e.g. Connectivity Group Id).
2. Potential optimizations towards partial retrieval of UDR Data (Sub)sets in connection with the retrieval of UE policies in a generic way that works for other scenarios.
3. Completion of failure scenarios for already specified functionality.
	1. Potential support of report of partial success of UE Policies towards the NEF.
	2. Specification of early detection of failure situations in the NEF.
4. Completion of Notification of URSP Delivery Outcome.
	1. Specification of error situations when delivering VPLMN-Specific URSP Rules.
5. 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.
6. 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 | Specification of PCF actions to identify that USIM is changed from UE-1 to UE-2.Updates to include recommendation in the URSP definition to increase traffic matching in the UE.Potential updates due to UE Policy enhancements and error handling. | CT#109 (September 2025) | CT3 |
| 29.523 | Potential report of partial success of UE Policy Delivery provisioning | CT#109 (September 2025) | CT3 |
| 29.519 | Potential optimizations towards partial retrieval of UDR Data (Sub)sets.Potential updates due to UE Policy enhancements and error handling. | CT#109 (September 2025) | CT3 |
| 29.522 | Enhancements in ServiceParameter API to align with URSP content.Potential updates due UE Policy enhancements and error handling. | CT#109 (September 2025) | CT3 |
| 29.513 | Enhancements related to UE Policy delivery scenarios.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

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