3GPP TSG CT WG3 Meeting #135 C3-243xxx

Hyderabad, IN, 27 - 31 May, 2024 Revision of C3-243099

3GPP TSG-CT WG1 Meeting #149 C1-243524

Hyderabad, India, 27-31 May 2024 Revision of C1-243149

**Source: Samsung**

**Title: New WID on CT aspects for enabling Edge Applications Phase 3**

**Document for: Approval**

**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 for Enabling Edge Applications Phase 3

Acronym: EDGEAPP\_Ph3

Unique identifier: XXXXXX

Potential target Release: Rel-19

# 1 Impacts

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Affects: | UICC apps | ME | AN | CN | Others (specify) |
| Yes |  | X |  | X |  |
| No |  |  | X |  |  |
| Don't know | X |  |  |  | X |

# 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\* |

## 2.2 Parent Work Item

|  |
| --- |
| Parent Work / Study Items  |
| Acronym | Working Group | Unique ID | Title (as in 3GPP Work Plan) |
| EDGEAPP\_Ph3 | SA6 | 1010007 | Architecture for enabling Edge Applications Phase 3 |

### 2.3 Other related Work Items and dependencies

|  |
| --- |
| Other related Work /Study Items (if any) |
| Unique ID | Title | Nature of relationship |
|  |  |  |
| 980035 | CT aspects of EDGEAPP\_Ph2 |  |
| 900006 | CT aspects for Enabling Edge Applications |  |

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

# 3 Justification

A substantial justification appears in the work item description for the parent feature (EDGEAPP\_Ph3, Unique ID: 1010007) and applies to this building block work item description as well.

The EDGEAPP\_Ph3 WID in SA6, specifies the application layer architecture, procedures and information flows necessary for enabling deployment of edge applications over 3GPP networks. The EDGEAPP\_Ph3 work is captured in Release 19 3GPP TS 23.558. The Stage-2 normative work specified in 3GPP TS 23.558 has impacts to the Stage-3 protocol aspects and related APIs that need to be specified in CT WGs.

CT WGs need to define protocol aspects of the architecture for enabling edge applications, based on normative stage 2 specification developed by 3GPP SA6 WG.

# 4 Objective

To define the protocol aspects and related APIs for enabling edge applications based upon the normative Rel-19 Stage 2 3GPP TS 23.558 developed by SA6 WG (additional CT WGs impacts areas will be identified based on the progress of the normative stage 2 work in SA6).

For CT1, the expected work includes stage 3 for EDGE-1, EDGE-4 reference points for:

1. Potential discovery, selection and service continuity aspects of common EAS and common EAS bundle.

2. Potential discovery and Service continuity for ENS scenarios

3. Potential dynamic EAS instantiation enhancements

For CT3, the expected work includes APIs for EDGE-3, EDGE-6, EDGE-9 and EDGE-10 reference points for:

1. Potential discovery, selection and service continuity aspects of common EAS and common EAS bundle.

2. Potential discovery and Service continuity for ENS scenarios

3. Potential dynamic EAS instantiation enhancements

NOTE: WID Objectives may be updated based on the outcome of SA3 study on "Security aspects of enhancement of support for edge computing in the 5G Core (5GC) phase 3".

# 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 |
| 24.558 | Enabling Edge Applications; Protocol specification. | TSG CT#109 (September 2025) | CT1 |
| 29.558 | Enhancements to Enabling Edge Applications; Application Programming Interface (API) specification; Stage 3. | TSG CT#109 (September 2025) | CT3 |

# 6 Work item Rapporteur(s)

Narendranath Durga Tangudu (n.tangudu@samsung.com)

# 7 Work item leadership

CT3

# 8 Aspects that involve other WGs

SA3 for security aspects.

# 9 Supporting Individual Members

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| --- |
| Supporting IM name |
| Samsung |
| Ericsson |
| AT&T |
| vivo |
| InterDigital |
| Vodafone |
| NTT |
| Huawei |
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