**3GPP TSG-CT1 Meeting #145C1-240009**

**Online, 22nd – 26th January 2024**

**3GPP TSG-CT3 Meeting #132C3-240030**

**Online, 22nd – 26th January 2024**

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 Application Data Analytics Enablement Service

Acronym: ADAES

Unique identifier: 990020

Potential target Release: Rel-18

# 1 Impacts

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Affects: | UICC apps | ME | AN | CN | Others (specify) |
| 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\* |

## 2.2 Parent Work Item

|  |
| --- |
| Parent Work / Study Items  |
| Acronym | Working Group | Unique ID | Title (as in 3GPP Work Plan) |
| ADAES | SA6 | 970036 | Application Data Analytics Enablement Service |

### 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: N/A**

# 3 Justification

The Rel-18 normative work on Application Data Analytics Enablement Service (ADAES) is being progressed in SA6 by introducing data analytic services for vertical and edge applications. This new work item aims to support ADAES from CT aspects.

# 4 Objective

The objective of this work item is to provide the stage 3 solutions and protocol aspects of ADAES based upon the normative technical specification for the functionalities defined in stage 2 requirements under the ADAES WID in the TSG SA6 working group.

Stage 3 work shall be started only after the applicable normative stage 2 work is available.

The following functionalities, as supported in stage 2, will be specified in CT1 and CT3 respectively.

CT1, the expected work includes:

a) defining a new API between the ADAE server and ADAE client provided by ADAE layer; and

b) defining protocol for reference points ADAE-C, ADAE-UU, and ADAE-PC5 to support the application data analytics enablement capabilities based on normative stage-2 work developed in 3GPP TS 23.436, where those capabilities are listed as:

1) application performance analytics;

2) edge load historic data collection;

3) UE-to-UE session performance analytics; and

4) service experience information.

CT3, the expected work includes:

a) defining the new APIs in network provided by ADAE layer;

b) defining protocol for reference points ADAE-S, ADAE-X and ADAE-Y for application data analytics enablement based on normative stage-2 work developed in clause 9.2.2 of 3GPP TS 23.436, where those capabilities are listed as:

1) application performance analytics;

2) slice-specific application performance analytics;

3) edge load analytics;

4) UE-to-UE session performance analytics;

5) location accuracy analytics;

6) service API analytics; and

7) slice usage pattern analytics; andc) defining protocol for A-ADRF-1 reference point for application data collection based on normative stage-2 work developed in clause 9.3.2 of 3GPP TS 23.436, where those capabilities are listed as:

1) AADRF data collection;

2) AADRF historical service API logs collection;

3) AADRF network slice data collection;

4) AADRF location accuracy data collection; and

5) AADRF edge data collection.

# 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 |
| TS | TS24.559 | Application Data Analytics Enablement Service (ADAES); Stage 3 | TSG#103(March 2024) | TSG#103(March 2024) | Atarius, Roozbeh, Lenovo, ratarius@motorola.com |

|  |
| --- |
| Impacted existing TS/TR {One line per specification. Create/delete lines as needed} |
| TS No. | Description of change  | Target completion plenary# | Remarks |
| TS29.549 | - Defining new APIs provided by ADAE layer. - Defining protocol for reference points ADAE-S, AADRF-1, ADAE-X and ADAE-Y for application data analytics enablement based on normative stage-2 work developed in clause 9.2.2 of 3GPP TS 23.436.- Defining protocol for A-ADRF-1 reference point for application data collection based on normative stage-2 work developed in clause 9.3.2 of 3GPP TS 23.436. | TSG#103(March 2024) |  |

# 6 Work item Rapporteur(s)

Atarius, Roozbeh, Lenovo, ratarius@motorola.com

# 7 Work item leadership

CT1

# 8 Aspects that involve other WGs

Possible charging aspects will be covered by SA5.

Possible security aspects will be covered by SA3.

# 9 Supporting Individual Members

|  |
| --- |
| Supporting IM name |
| Lenovo |
| Convida Wireless |
| Samsung |
| CATT |
| China Mobile |
| Huawei? |
| Ericsson? |
| Nokia, Nokia Bell Lab Shanghai? |