**3GPP TSG-CT WG1 Meeting #146C1-240300**

**Online , 22– 26 January 2024**

**Source: Lenovo**

**Title: Add references**

**Spec: 3GPP TS 24.559** **V0.3.1**

**Agenda item: 18.2.29**

**Document for: Agreement**

**1. Introduction**

<Introduction part (optional)>

**2. Reason for Change**

The pCR is adding references to the specification and adds the data types EdgeDataSub and EdgeDataNotif are changed to EdgeSub and EdgeNotif. Thus the ENs in clause 7.1.5.1 are removed.

**3. Conclusions**

<Conclusion part (optional)>

**4. Proposal**

It is proposed to agree the following changes to 3GPP TS 24.559 V0.3.1.

\* \* \* First Change \* \* \* \*

# 1 Scope

The present document specifies the protocol aspects of ADAE of SEAL services. The protocol aspects specify the UE supporting the client functionality of the ADAE SEAL services and the network supporting the server functionality of ADAE SEAL services, where the client functionality and server functionality are specified in 3GPP TS 23.436 [3].

\* \* \* Next Change \* \* \* \*

# 2 References

The following documents contain provisions which, through reference in this text, constitute provisions of the present document.

- References are either specific (identified by date of publication, edition number, version number, etc.) or non‑specific.

- For a specific reference, subsequent revisions do not apply.

- For a non-specific reference, the latest version applies. In the case of a reference to a 3GPP document (including a GSM document), a non-specific reference implicitly refers to the latest version of that document *in the same Release as the present document*.

[1] 3GPP TR 21.900: "Technical Specification Group working methods".

[2] 3GPP TR 21.905: "Vocabulary for 3GPP Specifications".

[3] 3GPP TS 23.436: "Procedures for Application Data Analytics Enablement Service".

[4] 3GPP TS 29.122: "T8 reference point for Northbound APIs".

[5] 3GPP TS 29.501: "5G System; Principles and Guidelines for Services Definition; Stage 3".

[6] 3GPP TS 29.523: "5G System; Policy Control Event Exposure Service".

[7] 3GPP TS 29.549:" Service Enabler Architecture Layer for Verticals (SEAL); Application Programming Interface (API) specification".

[8] 3GPP TS 29.571: "5G System; Common Data Types for Service Based Interfaces".

[9] 3GPP TS 33.434: "Service Enabler Architecture Layer for Verticals (SEAL); Security Aspects".

[10] IETF RFC 4825: "The Extensible Markup Language (XML) Configuration Access Protocol (XCAP)".

[11] IETF RFC 7230: "Hypertext Transfer Protocol (HTTP/1.1): Message Syntax and Routing".

[12] IETF RFC 7231: "Hypertext Transfer Protocol (HTTP/1.1): Semantics and Content".

[13] IETF RFC 7232: "Hypertext Transfer Protocol (HTTP/1.1): Conditional Requests".

[14] IETF RFC 7233: "Hypertext Transfer Protocol (HTTP/1.1): Range Requests".

[15] IETF RFC 7234: "Hypertext Transfer Protocol (HTTP/1.1): Caching".

[16] IETF RFC 7235: "Hypertext Transfer Protocol (HTTP/1.1): Authentication".

[17] IETF RFC 7540: "Hypertext Transfer Protocol Version 2 (HTTP/2)".

[18] IETF RFC 8259: "The JavaScript Object Notation (JSON) Data Interchange Format".

[19] OMA OMA-TS-XDM\_Core-V2\_1-20120403-A: "XML Document Management (XDM) Specification".

[20] OpenAPI: "OpenAPI Specification Version 3.0.0", <https://spec.openapis.org/oas/v3.0.0>.

\* \* \* Next Change \* \* \* \*

## 3.1 Terms

For the purposes of the present document, the terms given in 3GPP TR 21.905 [2] and the following apply. A term defined in the present document takes precedence over the definition of the same term, if any, in 3GPP TR 21.905 [2].

**ADAE client**: An entity that provides the client side functionalities corresponding to the ADAE.

**ADAE server**: An entity that provides the server side functionalities corresponding to the ADAE.

For the purposes of the present document, the following terms and definitions given in 3GPP TS 23.436 [3] apply:

**ADAE service**

**SEAL server**

**SEAL service**

**VAL application**

**VAL server**

**VAL service**

**VAL client**

**Vertical**

**Vertical application**

\* \* \* Next Change \* \* \* \*

## 5.1 Application data analytics enablement server (ADAES)

The ADAES is a functional entity with a unique identity, ADAES ID, in the PLMN and provides data analytics to administer the operation and performance of one or more VAL applications.

To be compliant with the HTTP procedures in the present document the ADAES:

a) shall support the role of XCAP server as specified in IETF RFC 4825 [10]; and

b) shall support the role of XDMS as specified in OMA OMA-TS-XDM\_Core-V2\_1 [19].

\* \* \* Next Change \* \* \* \*

## 5.2 Application data analytics enablement client (ADAEC)

The ADAEC functional entity with a unique identity, ADAEC ID, and act as the VAL application client which provides data analytics for managing network slice capabilities.

To be compliant with the HTTP procedures in the present document the ADAEC:

a) shall support the role of XCAP client as specified in IETF RFC 4825 [10]; and

b) shall support the role of XDMC as specified in OMAOMA-TS-XDM\_Core-V2\_1 [19].

\* \* \* Next Change \* \* \* \*

### 7.1.1 Introduction

The HTTP URIs used in HTTP protocol for the ADAE service shall have the resource URI structure as defined in clause TBD:

**{apiRoot}/<apiName>/<apiVersion>/<apiSpecificSuffixes>**

where:

a) {apiRoot} shall be set as described in clause 5.2.4 of 3GPP TS 29.122 [4];

b) <apiName>shall be "adae-sc";

c) <apiVersion> shall be "v1"; and

d) The <apiSpecificSuffixes> shall be set as described in clause 7.1.3.

\* \* \* Next Change \* \* \* \*

#### 7.1.5.1 General

This clause specifies the application data model supported by the API.

Table 7.1.5.1-1 specifies the data types defined for the ADAE\_ServiceConfiguration API.

Table 7.1.5.1-1: ADAE\_ServiceConfiguration API specific Data Types

|  |  |  |  |
| --- | --- | --- | --- |
| Data type | Clause defined | Description | Applicability |
| Ue2UePerfReq | 7.1.5.2.2 | Request for the UE-to-UE session performance analytics |  |
| Ue2UePerfResp | 7.1.5.2.3 | Response for the UE-to-UE session performance analytics |  |
| ConfigRepTrigger | 7.1.5.2.4 | Configure triggers for reports on the service experience information |  |
| PushSrvExpInfo | 7.1.5.2.5 | Push an individual service experience information |  |
| PullSrvExpInfo | 7.1.5.2.6 | Pull an individual service experience information |  |
| SrvExpInfoRep | 7.1.5.2.7 | Response to pull an individual service experience information |  |

Table 7.1.5.1-2 specifies data types re-used by the ADAE\_ServiceConfiguration API service.

Table 7.1.5.1-2: Re-used Data Types

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Data type | Reference | | Comments | Applicability | |
| AppPerfSub | 3GPP TS 29.549 [7] | Subscription to the VAL application performance analytics | | |  |
| AppPerfNotif | 3GPP TS 29.549 [7] | Notification information of the application performance analytics. | | |  |
| DurationSec | 3GPP TS 29.571 [8] | | Represent the time interval between successive location reports. |  | |
| EdgeSubs | 3GPP TS 29.549 [7] | Subscription to the edge load analytics event | | |  |
| EdgeNotif | 3GPP TS 29.549 [7] | Notification information of the edge load analytics event. | | |  |
| LocationArea | 3GPP TS 29.122 [4] | | Represents location information. |  | |
| Pc5QoSPara | 3GPP TS 29.571 [8] | | Represents policy data on the PC5 QoS parameters. |  | |
| ReportingInformation | 3GPP TS 29.523 [6] | | Indicates the reporting requirement. |  | |
| ValTargetUe | 3GPP TS 29.549 [7] | | Used to indicate either VAL User ID or VAL UE ID. |  | |
| Uri | 3GPP TS 29.571 [8] | | Used to indicate the notification URI. |  | |

\* \* \* End of Changes \* \* \* \*

### 7.1.7 Feature Negotiation

General feature negotiation procedures are defined in clause 5.2.7 of 3GPP TS 29.122 [4]. Table 7.1.7-1 lists the supported features for ADAE\_ServiceConfiguration API.

Table 7.1.7-1: Supported Features

|  |  |  |
| --- | --- | --- |
| Feature number | Feature Name | Description |
|  |  |  |

\* \* \* End of Changes \* \* \* \*