**3GPP TSG-CT WG1 Meeting #146C1-24XXXX**

**Online , 22– 26 January 2024**

**Source: Lenovo**

**Title: Service description and operations for UE-to-UE session performance analytics**

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

**Agenda item: 18.2.29**

**Document for: Agreement**

**1. Introduction**

<Introduction part (optional)>

**2. Reason for Change**

Detailed service description and service operations for UE-to-UE session performance analytics.

Corrected clause numbering.

Added missing reference number.

Miscellaneous corrections of UE-to-UE session performance analytics related text.

**3. Conclusions**

<Conclusion part (optional)>

**4. Proposal**

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

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

## 6.3 UE-to-UE session performance analytics

### 6.3.1 Service description

#### 6.3.1.1 Overview

The ADAE\_ServiceConfiguration API, as defined 3GPP TS 23.436 [3], allows the ADAES via ADAE-UU reference point, to obtain the UE-to-UE session performance analytics from the ADAEC.

### 6.3.2 Service Operations

#### 6.3.2.1 Introduction

The service operation defined for ADAE\_ServiceConfiguration API for UE-to-UE session performance analytics is shown in the table 6.3.2.1-1.

Table 6.3.2.1-1: Operations for UE-to-UE session performance analytics

|  |  |  |
| --- | --- | --- |
| Service operation name | Description | Initiated by |
| Fetch\_UE2UE\_Session\_Performance\_Analytics | This service operation is used by ADAES to obtain the UE-to-UE session performance analytics. | ADAES |

#### 6.3.2.2 Fetch\_UE2UE\_Session\_Performance\_Analytics

##### 6.3.2.2.1 General

This service operation is used by the ADAES for obtaining the UE-to-UE session performance analytics from the ADAEC.

##### 6.3.2.2.2 Obtaining UE-to-UE session performance analytics using Fetch\_UE2UE\_Session\_Performance\_Analytics service operation

To obtain the UE-to-UE session performance analytics, the ADAES shall send an HTTP POST request with a Request-URI according to the pattern "{apiRoot}/adae-sc/<apiVersion>/ue2ue-session-performance/fetch" and with a body containing data type Ue2UePerfReq as defined in clause 7.1.5.2.2.

Upon receipt of the HTTP POST request, the ADAEC shall:

a) verify the identity of the ADAES and determine if the ADAES is authorized to obtain the UE-to-UE session performance analytics; and

b) if the ADAES:

1) is not authorized, the ADAEC shall respond to the ADAES with an appropriate error status code; or

2) is authorized, the ADAEC shall respond to the ADAES with an HTTP "200 OK" status code with the response body including the Ue2UePerfResp as defined in clause 7.1.3.3.4.2 with the following attributes:

i) UE-to-UE session performance analytics;

ii) one or more VAL UEs; and

iii) identity of the UE-to-UE session performance analytics.

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

#### 7.1.3.4 Resource: UE-to-UE session performance analytics

##### 7.1.3.4.1 Description

This resource is used by the ADAES to request the ADAEC for the UE-to-UE session performance analytics.

##### 7.1.3.4.2 Resource definition

Resource URI: **{apiRoot}/adae-sc/<apiVersion>/ue2ue-session-performance**

This resource shall support the resource URI variables defined in the table 7.1.3.4.2-1.

Table 7.1.3.4.2-1: Resource URI variables for this resource

|  |  |  |
| --- | --- | --- |
| Name | Data Type | Definition |
| apiRoot | string | See clause 5.2.4 in 3GPP TS 29.122 [4] |

##### 7.1.3.4.3 Resource standard methods

None

##### 7.1.3.4.4 Resource custom operations

###### 7.1.3.4.4.1 Overview

Table 7.1.3.4.4.1-1: Custom operations

|  |  |  |  |
| --- | --- | --- | --- |
| Operation name | Custom operation URI | Mapped HTTP method | Description |
| Fetch | /ue2ue-session-performance/fetch | POST | Request for the UE-to-UE session performance analytics |

###### 7.1.3.4.4.2 Fetch

This custom operation is for the ADAES to request the ADAEC the UE-to-UE session performance analytics and shall support the URI query parameters specified in table 7.1.3.4.4.2-1.

Table 7.1.3.4.4.2-1: URI query parameters supported by the POST method on this resource

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Name | Data type | P | Cardinality | Description | Applicability |
| n/a |  |  |  |  |  |

This custom operation shall support the request data structures specified in table 7.1.3.4.4.2-2 and the response data structures and response codes specified in table 7.1.3.4.4.2-3.

Table 7.1.3.4.4.2-2: Data structures supported by the POST Request Body on this resource

|  |  |  |  |
| --- | --- | --- | --- |
| Data type | P | Cardinality | Description |
| Ue2UePerfReq | M | 1 | ADAES requests ADAEC for the UE-to-UE session performance analytics |

Table 7.1.3.4.4.2-3: Data structures supported by the POST Response Body on this resource

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Data type | P | Cardinality | Response  codes | Description |
| Ue2UePerfResp | M | 1 | 200 OK | ADAEC responses ADAES the UE-to-UE session performance analytics |
| NOTE: The mandatory HTTP error status codes for the POST method listed in table 5.2.6-1 of 3GPP TS 29.122 [4] shall also apply. | | | | |

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

##### 7.1.5.2.2 Type: Ue2UePerfReq

Table 7.1.5.2.2-1: Definition of type Ue2UePerfReq

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Attribute name | Data type | P | Cardinality | Description | Applicability |
| serverId | string | M | 1 | Identity of the ADAES |  |
| analyticsId | string | M | 1 | Identity of the UE-to-UE session analytics |  |
| valUeIds | array(ValTargetUe) | M | 1..N | One or more VAL UEs, for which the UE-to-UE session performance analytics, is requested. |  |
| pc5Qos | Pc5QoSPara | M | 1 | The QoS attributes to be analyzed at the ADAEC during UE-to-UE session. |  |
| reportConfig | ReportingInformation | O | 0..1 | The configuration of UE-to-UE session performance analytics reporting. |  |
| area | LocationArea | O | 0..1 | The geographical or service area, for which the UE-to-UE session peformance analytics is requested. |  |
| timeWindow | DurationSec | O | 0..1 | The time window as the start time point and the end time point, for which the UE-to-UE session performance analytics is applied. |  |

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