**3GPP TSG CT WG3 Meeting #136 *C3-244284***

**Maastricht, NL, 19 - 23 August, 2024 *(Revision of C3-244xxx)***

|  |
| --- |
| *CR-Form-v12.3* |
| **CHANGE REQUEST** |
|  |
|  |  | **CR** |  | **rev** |  | **Current version:** |  |  |
|  |
| *For* [***HE******LP***](http://www.3gpp.org/3G_Specs/CRs.htm#_blank)*on using this form: comprehensive instructions can be found at* [*http://www.3gpp.org/Change-Requests*](http://www.3gpp.org/Change-Requests)*.* |
|  |

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| ***Proposed change affects:*** | UICC apps |  | ME |  | Radio Access Network |  | Core Network | **X** |

|  |
| --- |
|  |
| ***Title:***  |  |
|  |  |
| ***Source to WG:*** |  |
| ***Source to TSG:*** |  |
|  |  |
| ***Work item code:*** |  |  | ***Date:*** |  |
|  |  |  |  |  |
| ***Category:*** |  |  | ***Release:*** |  |
|  | *Use one of the following categories:****F*** *(correction)****A*** *(mirror corresponding to a change in an earlier release)****B*** *(addition of feature),* ***C*** *(functional modification of feature)****D*** *(editorial modification)*Detailed explanations of the above categories canbe found in 3GPP [TR 21.900](http://www.3gpp.org/ftp/Specs/html-info/21900.htm). | *Use one of the following releases:Rel-8 (Release 8)Rel-9 (Release 9)Rel-10 (Release 10)Rel-11 (Release 11)…Rel-17 (Release 17)Rel-18 (Release 18)Rel-19 (Release 19) Rel-20 (Release 20)* |
|  |  |
| ***Reason for change:*** | The following issues have been identified in the current specification:1. In clause 5.11.3.2.1, the description indicates SEAL Server is incorrect and should be changed to ADAE server, and simplify the description.
2. It is proposed to use service consumers instead of VAL Server for further expansion and alignment with other ADAE APIs.
3. The description for the service operation contains several redundancies and errors, hence, it is proposed to correct and simplify the description and align with other ADAE APIs.
4. The Resource Custom Operations clause is missing in the OpenAPI clause.
5. In clause 7.10.3.4.2.2, the NOTE for the "reportingThrs" attribute is unclear.
6. In clause 7.100.3.4.2.6, the presence condition for the attributes within the U2UAnalyticsData data type is incorrect.
7. In the OpenAPI file, the indentation of the enumeration values is incorrect.
8. Additional editorial and format issues.
 |
|  |  |
| ***Summary of change:*** | Fix the above issues. |
|  |  |
| ***Consequences if not approved:*** | Incorrect specification. |
|  |  |
| ***Clauses affected:*** | 5.11.3.2.11, 5.11.3.2.2.1, 5.11.3.2.2.2, 5.11.3.2.3.1, 5.11.3.2.3.2, 5.11.3.2.3.2.1, 5.11.3.2.3.2.2, 7.10.3.2.3.4(new), 7.10.3.3.2.2, 7.10.3.4.2.2, 7.10.3.4.2.6, A.17 |
|  |  |
|  | **Y** | **N** |  |  |
| ***Other specs*** |  | **x** |  Other core specifications  | TS/TR ... CR ...  |
| ***affected:*** |  | **x** |  Test specifications | TS/TR ... CR ...  |
| ***(show related CRs)*** |  | **x** |  O&M Specifications | TS/TR ... CR ...  |
|  |  |
| ***Other comments:*** | This CR introduces backwards compatible corrections to the OpenAPI description of the SS\_ADAE\_Ue2UePerformanceAnalytics API. |
|  |  |
| ***This CR's revision history:*** |  |

**Additional discussion(if needed):**

**Proposed changes:**

\*\*\* 1st Change \*\*\*

##### 5.11.3.2.1 Introduction

The service operations defined for the SS\_ADAE\_Ue2UePerformanceAnalytics API are shown in the table 5.11.3.2.1-1.

Table 5.11.3.2.1-1: Operations of the SS\_ADAE\_Ue2UePerformanceAnalytics API

|  |  |  |
| --- | --- | --- |
| Service operation name | Description | Initiated by |
| UE-to-UE\_Performance\_Analytics\_Subscribe | This service operation is used by the VAL server to subscribe to the UE-to-UE performance analytics. | VAL server |
| UE-to-UE\_Performance\_Analytics\_Notify | This service operation is used by the ADAE Server to notify about the UE-to-UE performance analytics. | ADAE server |
| UE-to-UE\_Performance\_Analytics\_Unsubscribe | This service operation is used by the VAL server to unsubscribe to the UE-to-UE performance analytics. | VAL server |

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

###### 5.11.3.2.2.1 General

This service operation is used by VAL server to subscribe to UE-to-UE performance analytics to the ADAE Server.

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

###### 5.11.3.2.2.2 Subscribing for UE-to-UE performance analytics using UE-to-UE\_Performance\_Analytics\_Subscribe

To subscribe to UE-to-UE performance analytics, the VAL server shall send an HTTP POST message to the ADAES with a Request-URI set to "{apiRoot}/ss-adae-uupa/<apiVersion>/ue2ue-session-performance", and the body containing the U2UPerfSub data structure as defined in clause 7.10.3.4.2.2.

Upon reception of the HTTP POST request message, the ADAE Server shall:

1. verify the identity of the VAL server and determine if the service consumer is authorized to subscribe to the UE-to-UE session performance analytics event; and

2. if the service consumer:

a. is not authorized, the ADAES shall respond to an appropriate error status code; or

b. is authorized, the ADAES shall create a new "Individual UE-to-UE Session Performance Event Subscription" resource and respond to the VAL server with an HTTP "201 Created" status code, including a Location header field containing the URI for the created resource and the response body including the U2UPerfSub data structure containing a representation of the created resource.

If errors occur when processing the HTTP POST request, the ADAES shall send an appropriate HTTP error response as specified in clause 7.10.3.5.

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

###### 5.11.3.2.3.1 General

This service operation is used by the ADAE Server to send a notification about UE-to-UE performance analytics events to a previously subscribed VAL server.

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

###### 5.11.3.2.3.2 Notifying UE-to-UE performance analytics events using UE-to-UE\_Performance\_Analytics\_Notify

To notify about UE-to-UE performance analytics events, the ADAES shall send an HTTP POST request to the VAL Server at the notification URI that was provided during subscription, and the body containing the U2UPerfNotif data structure as defined in clause 7.10.3.4.2.3.

Upon receiving the HTTP POST request message, the service consumer shall process the UE-to-UE performance analytics events notification, and in case of success, respond with the HTTP "204 No Content" status code.

If errors occur when processing the HTTP POST request, the VAL Server shall send an appropriate HTTP error response as specified in clause 7.10.3.5.

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

###### 5.11.3.2.3.2.1 General

This service operation is used by VAL server to unsubscribe from UE-to-UE performance analytics events.

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

###### 5.11.3.2.3.2.2 Unsubscribing from the UE-to-UE performance analytics events using UE-to-UE\_Performance\_Analytics\_Unsubscribe

To unsubscribe from UE-to-UE session performance analytics events, the VAL server shall send an HTTP DELETE request with "{apiRoot}/ss-adae-uupa/<apiVersion>/ue2ue-session-performance/{u2uPerfId}" as Resource URI, where "{u2uPerfId}" is the identifier of the existing subscription that is to be deleted.

Upon receiving the HTTP DELETE request, if the ADAES authorizes the service consumer and successfully performs the deletion of the indicated subscription, the ADAES shall remove the corresponding subscription and respond with the HTTP "204 No Content" status code.

If errors occur when processing the HTTP DELETE request, the ADAES shall send an appropriate HTTP error response as specified in clause 7.10.3.5.

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

7.10.3.2.3.4 Resource Custom Operations

None.

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

###### 7.10.3.3.2.2 Notification definition

The POST method shall be used for the event notification and the callback URI shall be the one provided by the consumer during the subscription to the event.

Callback URI: **{notifUri}**

This method shall support the URI query parameters specified in table 7.10.3.3.2.2-1.

Table 7.10.3.3.2.2-1: URI query parameters supported by the POST method on this resource

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

This method shall support the request data structures specified in table 7.10.3.3.2.2-2 and the response data structures and response codes specified in table 7.10.3.3.2.2-3.

Table 7.10.3.3.2.2-2: Data structures supported by the POST Request Body on this resource

|  |  |  |  |
| --- | --- | --- | --- |
| Data type | P | Cardinality | Description |
| U2UPerfNotif | M | 1 | Notification information of the UE-to-UE session performance analytics. |

Table 7.10.3.3.2.2-3: Data structures supported by the POST Response Body on this resource

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Data type | P | Cardinality | Response codes | Description |
| n/a |  |  | 204 No Content | Notification for the UE-to-UE session performance analytics event is accepted. |
| n/a |  |  | 307 Temporary Redirect | Temporary redirection, during notification.The response shall include a Location header field containing an alternative URI representing the end point of an alternative notification destination where the notification should be sent.Redirection handling is described in clause 5.2.10 of 3GPP TS 29.122 [3]. |
| n/a |  |  | 308 Permanent Redirect | Permanent redirection, during notification.The response shall include a Location header field containing an alternative URI representing the end point of an alternative notification destination where the notification should be sent.Redirection handling is described in clause 5.2.10 of 3GPP TS 29.122 [3]. |
| NOTE: The mandatory HTTP error status codes for the POST method listed in table 5.2.7.1-1 of 3GPP TS 29.122 [3] shall also apply. |

**Table 7.10.3.3.2.2-4: Headers supported by the 307 Response Code on this resource**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Name** | **Data type** | **P** | **Cardinality** | **Description** |
| Location | string | M | 1 | An alternative URI representing the end point of an alternative notification destination towards which the notification should be redirected. |

**Table 7.10.3.3.2.2-5: Headers supported by the 308 Response Code on this resource**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Name** | **Data type** | **P** | **Cardinality** | **Description** |
| Location | string | M | 1 | An alternative URI representing the end point of an alternative notification destination towards which the notification should be redirected. |

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

###### 7.10.3.4.2.2 Type: U2UPerfSub

Table 7.10.3.4.2.2-1: Definition of type U2UPerfSub

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Attribute name | Data type | P | Cardinality | Description | Applicability |
| analyticsType | AnalyticsType | M | 1 | Represents the type of the UE-to-UE session performance analytics. |  |
| valUeIds | array(ValTargetUe) | M | 1..N | Represent the list of VAL UEs, whose UE-to-UE session analytics are subscribed to. |  |
| valServiceId | string | O | 0..1 | Represents the VAL service for which the subscription applies. |  |
| confLevel | Uinteger | O | 0..1 | Indicates the preferred accuracy level for the UE-to-UE session prediction.Minimum = 0. Maximum = 100. |  |
| area | LocationArea5G | O | 0..1 | Represents the geographical or service area, to which the UE-to-UE session performance analytics subscription is applied. |  |
| repReq | ReportingInformation | O | 0..1 | Represents the reporting requirements of the subscription. |  |
| reportingInds | array(U2UAnalytics) | O | 1..N | Indicates the list of the requested analytics. |  |
| reportingThrs | array(U2UThreshold) | C | 1..N | Identifies reporting threshold corresponding to the application QoS index(es).(NOTE) |  |
| reportingGrn | U2UReportingGranularity | O | 0..1 | Indicates the reporting granularity. |  |
| notifUri | Uri | M | 1 | Represents the notification URI. |  |
| timeInterval | TimeWindow | O | 0..1 | The time interval as the start time and end time, to which the UE-to-UE session performance analytics subscription is applied. |  |
| suppFeat | SupportedFeatures | C | 0..1 | Used to negotiate the applicability of optional features.This attribute shall be present only if feature negotiation needs to take place. |  |
| NOTE: This attribute may be provided if the "notifMethod" attribute within the ReportingInformation data type provided in the "repReq" attribute is set to "ON\_EVENT\_DETECTION". |

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

###### 7.10.3.4.2.6 Type: U2UAnalyticsData

Table 7.10.3.4.2.6-1: Definition of type U2UAnalyticsData

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Attribute name | Data type | P | Cardinality | Description | Applicability |
| valUes | U2UPair | C | 0..1 | Represent the pair of VAL UEs, whose UE-to-UE session analytics are observed.This attribute shall represent a sub-set of the VAL UEs defined in the "valUeIds" attribute within the U2UPerfSub data type.If omitted, the analytics data is applied for all active VAL UE sessions. |  |
| avgLatency | Uinteger | C | 0..1 | The average latency in milliseconds.(NOTE) |  |
| avgPer | PacketErrRate | C | 0..1 | The average packet error rate.(NOTE) |  |
| avgDataRate | BitRate | C | 0..1 | The average data rate.(NOTE) |  |
| jitter | Float | C | 0..1 | The jitter.(NOTE) |  |
| NOTE: At least one of these attributes shall be provided. |

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

# A.17 SS\_ADAE\_Ue2UePerformanceAnalytics API

openapi: 3.0.0

info:

 title: SS\_ADAE\_Ue2UePerformanceAnalytics

 description: |

 API for SEAL VAL Service Area Configuration Service.

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 version: "1.0.0"

externalDocs:

 description: >

 3GPP TS 29.549 V18.6.0 Service Enabler Architecture Layer for Verticals (SEAL);

 Application Programming Interface (API) specification; Stage 3.

 url: https://www.3gpp.org/ftp/Specs/archive/29\_series/29.549/

security:

 - {}

 - oAuth2ClientCredentials: []

servers:

 - url: '{apiRoot}/ss-adae-uupa/v1'

 variables:

 apiRoot:

 default: https://example.com

 description: apiRoot as defined in clause 6.5 of 3GPP TS 29.549

paths:

 /ue2ue-session-performance:

 post:

 summary: Create an individual UE-to-UE session performance analytics event subscription.

 operationId: SubscribeUe2UePerfAnalytics

 tags:

 - UE-to-UE Performance Subscriptions (Collection)

 requestBody:

 required: true

 content:

 application/json:

 schema:

 $ref: '#/components/schemas/U2UPerfSub'

 responses:

 '201':

 description: >

 Subscription to the UE-to-UE session performance analytics is created.

 content:

 application/json:

 schema:

 $ref: '#/components/schemas/U2UPerfSub'

 headers:

 Location:

 description: Contains the URI of the newly created individual resource.

 required: true

 schema:

 type: string

 '400':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/400'

 '401':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/401'

 '403':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/403'

 '404':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/404'

 '411':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/411'

 '413':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/413'

 '415':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/415'

 '429':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/429'

 '500':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/500'

 '503':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/503'

 default:

 $ref: 'TS29122\_CommonData.yaml#/components/responses/default'

 callbacks:

 NotifyU2USessionEvent:

 '{$request.body#/notifUri}':

 post:

 summary: Notify the UE-to-UE session performance analytics.

 requestBody:

 required: true

 content:

 application/json:

 schema:

 $ref: '#/components/schemas/U2UPerfNotif'

 responses:

 '204':

 description: The notification is successfully received.

 '307':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/307'

 '308':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/308'

 '400':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/400'

 '401':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/401'

 '403':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/403'

 '404':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/404'

 '411':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/411'

 '413':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/413'

 '415':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/415'

 '429':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/429'

 '500':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/500'

 '503':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/503'

 default:

 $ref: 'TS29122\_CommonData.yaml#/components/responses/default'

 /ue2ue-session-performance/{u2uPerfId}:

 get:

 summary: Read the individual UE-to-UE session performance analytics event subscription.

 operationId: ReadU2UPerfSubscription

 tags:

 - Individual UE-to-UE Performance Subscription (Document)

 parameters:

 - name: u2uPerfId

 in: path

 description: >

 Represents the identifier of an individual UE-to-UE session performance

 analytics subscription.

 required: true

 schema:

 type: string

 responses:

 '200':

 description: >

 The requested individual UE-to-UE session performance event subscription is returned.

 content:

 application/json:

 schema:

 $ref: '#/components/schemas/U2UPerfSub'

 '400':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/400'

 '401':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/401'

 '403':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/403'

 '404':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/404'

 '406':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/406'

 '429':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/429'

 '500':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/500'

 '503':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/503'

 default:

 $ref: 'TS29122\_CommonData.yaml#/components/responses/default'

 delete:

 summary: Remove the individual UE-to-UE session performance analytics event subscription.

 operationId: RemoveU2UPerfSubscription

 tags:

 - Individual UE-to-UE Performance Subscription (Document)

 parameters:

 - name: u2uPerfId

 in: path

 description: >

 Represents the identifier of an individual UE-to-UE session performance

 analytics subscription.

 required: true

 schema:

 type: string

 responses:

 '204':

 description: >

 The individual UE-to-UE session performance event subscription matching

 the u2uPerfId is deleted.

 '307':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/307'

 '308':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/308'

 '400':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/400'

 '401':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/401'

 '403':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/403'

 '404':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/404'

 '429':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/429'

 '500':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/500'

 '503':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/503'

 default:

 $ref: 'TS29122\_CommonData.yaml#/components/responses/default'

components:

 securitySchemes:

 oAuth2ClientCredentials:

 type: oauth2

 flows:

 clientCredentials:

 tokenUrl: '{tokenUrl}'

 scopes: {}

 schemas:

 U2UPerfSub:

 description: >

 Represents the UE-to-UE session performance analytics subscription.

 type: object

 properties:

 analyticsType:

 $ref: 'TS29549\_SS\_ADAE\_VALPerformanceAnalytics.yaml#/components/schemas/AnalyticsType'

 valUeIds:

 type: array

 description: >

 Represent the list of VAL UEs, whose UE-to-UE session analytics are subscribed to.

 items:

 $ref: 'TS29549\_SS\_UserProfileRetrieval.yaml#/components/schemas/ValTargetUe'

 minItems: 1

 valServiceId:

 description: Represents the VAL service for which the subscription applies.

 type: string

 confLevel:

 $ref: 'TS29571\_CommonData.yaml#/components/schemas/Uinteger'

 area:

 $ref: 'TS29122\_CommonData.yaml#/components/schemas/LocationArea5G'

 repReq:

 $ref: 'TS29523\_Npcf\_EventExposure.yaml#/components/schemas/ReportingInformation'

 reportingInds:

 type: array

 description: Indicates the list of the requested analytics.

 items:

 $ref: '#/components/schemas/U2UAnalytics'

 minItems: 1

 reportingThrs:

 type: array

 description: >

 Identifies reporting threshold corresponding to the application QoS index(es).

 items:

 $ref: '#/components/schemas/U2UThreshold'

 minItems: 1

 reportingGrn:

 $ref: '#/components/schemas/U2UReportingGranularity'

 notifUri:

 $ref: 'TS29122\_CommonData.yaml#/components/schemas/Uri'

 timeInterval:

 $ref: 'TS29122\_CommonData.yaml#/components/schemas/TimeWindow'

 suppFeat:

 $ref: 'TS29571\_CommonData.yaml#/components/schemas/SupportedFeatures'

 required:

 - analyticsType

 - valUeIds

 - notifUri

 U2UPerfNotif:

 description: >

 Represents the threshold for UE-to-UE session performance analytics.

 type: object

 properties:

 analyticsOutput:

 type: array

 description: >

 Represents the exposure level requirements for the analytics to be exposed.

 items:

 $ref: '#/components/schemas/U2UAnalyticsData'

 minItems: 1

 confLevel:

 $ref: 'TS29571\_CommonData.yaml#/components/schemas/Uinteger'

 required:

 - analyticsOutput

 U2UThreshold:

 description: >

 Represents the threshold for UE-to-UE session performance analytics.

 type: object

 properties:

 value:

 $ref: '#/components/schemas/U2UAnalyticsData'

 thrDirect:

 $ref: 'TS29520\_Nnwdaf\_EventsSubscription.yaml#/components/schemas/MatchingDirection'

 required:

 - value

 - thrDirect

 U2UAnalyticsData:

 description: >

 Represents the UE-to-UE analytics data.

 type: object

 properties:

 valUes:

 $ref: '#/components/schemas/U2UPair'

 avgLatency:

 $ref: 'TS29571\_CommonData.yaml#/components/schemas/Uinteger'

 avgPer:

 $ref: 'TS29571\_CommonData.yaml#/components/schemas/PacketErrRate'

 avgDataRate:

 $ref: 'TS29571\_CommonData.yaml#/components/schemas/BitRate'

 jitter:

 $ref: 'TS29571\_CommonData.yaml#/components/schemas/Float'

 U2UPair:

 description: >

 Represents the UE-to-UE pair.

 type: object

 properties:

 valUeA:

 $ref: 'TS29549\_SS\_UserProfileRetrieval.yaml#/components/schemas/ValTargetUe'

 valUeB:

 $ref: 'TS29549\_SS\_UserProfileRetrieval.yaml#/components/schemas/ValTargetUe'

# Simple data types and Enumerations

 U2UAnalytics:

 anyOf:

 - type: string

 enum:

 - AVG\_LATENCY

 - AVG\_PER

 - AVG\_DATA\_RATE

 - JITTER

 - type: string

 description: >

 This string provides forward-compatibility with future

 extensions to the enumeration and is not used to encode

 content defined in the present version of this API.

 description: |

 Represents the UE-to-UE analytics types.

 Possible values are:

 - AVG\_LATENCY: The indication for requesting the average latency analytics.

 - AVG\_PER: The indication for requesting the average packet error rate analytics.

 - AVG\_DATA\_RATE: The indication for requesting the average data rate analytics.

 - JITTER: The indication for requesting the jitter analytics.

 U2UReportingGranularity:

 anyOf:

 - type: string

 enum:

 - GROUP

 - INDIVIDUAL

 - type: string

 description: >

 This string provides forward-compatibility with future

 extensions to the enumeration and is not used to encode

 content defined in the present version of this API.

 description: |

 Represents the UE-to-UE reporting granularity.

 Possible values are:

 - GROUP: The indication for requesting the analytics for all

 VAL UE-to-UE application sessions.

 - INDIVIDUAL: The indication for requesting the analytics for individual

 VAL UE-to-UE application sessions.

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