**3GPP TSG-CT Meeting #106CP-247189**

**Madrid, Spain; 9th – 10th December 2024**

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| *CR-Form-v12.3* | | | | | | | | |
| **CHANGE REQUEST** | | | | | | | | |
|  | | | | | | | | |
|  | **24.559** | **CR** | **0009** | **rev** | **-** | **Current version:** | **18.3.0** |  |
|  | | | | | | | | |
| *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)*.* | | | | | | | | |
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| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| ***Proposed change affects:*** | UICC apps |  | ME | **X** | Radio Access Network |  | Core Network | **X** |

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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | | | | | | | | | | |
| ***Title:*** | Update of info and externalDocs fields | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Source to WG:*** | Lenovo | | | | | | | | | |
| ***Source to TSG:*** | C1 | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Work item code:*** | TEI19 | | | | |  | ***Date:*** | | | 2024-11-25 |
|  |  | | | |  | |  | | |  |
| ***Category:*** | **F** |  | | | | | ***Release:*** | | | Rel-19 |
|  | *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 can be 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:*** | | CRs modifying ADAE\_ServiceConfiguration API have been agreed and the version number of the corresponding OpenAPI file thus needs to be incremented following the rules in TS 29.501, clause 4.3.1.  The following agreed CRs update the ADAE\_ServiceConfiguration API for the present release:  - TS 24.559 CR #0007 adds support Collision Detection Analytics functionality in Rel-19.  - TS 24.559 CR #0008 adds support Location-related UE Group Analytics functionality in Rel-19.  Since a new TS version will be provided with changes to the OpenAPI specification file, the TS version number included in the "description" field of the "externalDocs" object also needs to be updated. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Summary of change:*** | | The ADAE\_ServiceConfiguration API version number set to value "1.1.0".  The TS version number in the "description" field of the "externalDocs" object is changed to "19.0.0". | | | | | | | | |
|  | |  | | | | | | | | |
| ***Consequences if not approved:*** | | Incorrect API version number and incorrect TS version number in the "description" field of the "externalDocs" object. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Clauses affected:*** | | A.2 | | | | | | | | |
|  | |  | | | | | | | | |
|  | | **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's revision history:*** | |  | | | | | | | | |

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

# A.2 ADAE\_ServiceConfiguration API

openapi: 3.0.0

info:

title: ADAE\_ServiceConfiguration

version: 1.1.0

description: |

API for ADAE service configuration.

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externalDocs:

description: >

3GPP TS 24.559 V19.0.0 Application Data Analytics Enablement Service; Stage 3.

url: https://www.3gpp.org/ftp/Specs/archive/24\_series/24.559/

security:

- {}

- oAuth2ClientCredentials: []

servers:

- url: '{apiRoot}/adae-sc/v1'

variables:

apiRoot:

default: https://example.com

description: apiRoot as defined in clause 5.2.4 of 3GPP TS 29.122.

paths:

/application-performance:

post:

description: >

Creates a new individual VAL performance analytics event subscription.

operationId: VALPerformanceSubscription

tags:

- VAL performance event subscriptions (Collection)

requestBody:

required: true

content:

application/json:

schema:

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

callbacks:

notificationUri:

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

post:

requestBody:

required: true

content:

application/json:

schema:

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

responses:

'204':

description: No Content (successful notification)

'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'

responses:

'201':

description: VAL performance event subscription resource created successfully.

content:

application/json:

schema:

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

headers:

Location:

description: Contains the URI of the newly created 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'

/application-performance/{appPerfId}:

delete:

description: Deletes an individual VAL performance event subscription.

operationId: DeleteIndValPerfEventSubsc

tags:

- Individual VAL performance event subscription

parameters:

- name: appPerfId

in: path

description: Identifier of an individual VAL performance event subscription.

required: true

schema:

type: string

responses:

'204':

description: >

The individual VAL performance subscription matching the appPerfId 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'

/ue2ue-session-performance/fetch:

post:

description: >

Obtain the UE-to-UE session performance analytics.

operationId: FetchUe2UeSessionPerformance

tags:

- Fetch UE-to-UE session performance analytics

requestBody:

required: true

content:

application/json:

schema:

$ref: '#/components/schemas/Ue2UePerfReq'

responses:

'200':

description: >

Successful case. The UE-to-UE session performance information is returned in

the response body.

content:

application/json:

schema:

$ref: '#/components/schemas/Ue2UePerfResp'

'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'

/edge-load:

post:

description: >

Creates a new individual edge load data collection event subscription.

operationId: EdgeLoadDataCollectionSubscription

tags:

- Edge load data collection event subscriptions (Collection)

requestBody:

required: true

content:

application/json:

schema:

$ref: 'TS29549\_SS\_ADAE\_EdgeLoadAnalytics.yaml#/components/schemas/EdgeSub'

callbacks:

notificationUri:

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

post:

requestBody:

required: true

content:

application/json:

schema:

$ref: 'TS29549\_SS\_ADAE\_EdgeLoadAnalytics.yaml#/components/schemas/EdgeNotif'

responses:

'204':

description: No Content (successful notification)

'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'

responses:

'201':

description: Edge load data collection event subscription resource created successfully.

content:

application/json:

schema:

$ref: 'TS29549\_SS\_ADAE\_EdgeLoadAnalytics.yaml#/components/schemas/EdgeSub'

headers:

Location:

description: Contains the URI of the newly created 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'

/edge-load/{edgeLdId}:

delete:

description: Deletes an individual edge load data collection event subscription.

operationId: DeleteIndEdgeLdDataCollectEventSubsc

tags:

- Individual edge load data collection event subscription

parameters:

- name: edgeLdId

in: path

description: Identifier of an individual edge load data collection event subscription.

required: true

schema:

type: string

responses:

'204':

description: >

The individual edge load data collection subscription matching the edgeLdId 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'

/service-experience/pull:

post:

description: >

ADAE server pulls service experience report from the ADAE client.

operationId: PullSrvExpReport

tags:

- Pull service experienec report

requestBody:

required: true

content:

application/json:

schema:

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

responses:

'200':

description: >

Successful case. The ADAE client provides service experience reporting to

the ADAE server.

content:

application/json:

schema:

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

'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'

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'415':

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'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:

Ue2UePerfReq:

description: ADAES requests ADAEC for the UE-to-UE session performance analytics.

type: object

properties:

serverId:

type: string

description: String identifying the ADAE server

analyticsId:

type: string

description: String identifying the UE-to-UE session analytics

valUeIds:

type: array

items:

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

minItems: 1

description: >

One or more VAL UE IDs whose UE-to-UE session performance is requested.

pc5Qos:

$ref: 'TS29571\_CommonData.yaml#/components/schemas/Pc5QoSPara'

reportConfig:

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

repThresholds:

description: >

Identifies reporting threshold corresponding to the analytics.

type: array

items:

$ref: '#/components/schemas/Ue2UeRepThreshold'

minItems: 1

dataAbstractReq:

description: >

Indicates whether the data abstraction is required (true) or not (false).

type: boolean

default: false

dataCollectReq:

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

area:

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

timeWindow:

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

suppFeat:

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

required:

- serverId

- valUeIds

- pc5Qos

Ue2UePerfResp:

description: >

ADAEC responds to ADAES with the UE-to-UE session performance analytics information.

type: object

properties:

dataOutputs:

type: array

items:

type: string

minItems: 1

description: >

UE-to-UE session performance analytics for prediction or statistics.

valUeIds:

type: array

items:

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

minItems: 1

description: >

One or more VAL UE IDs whose UE-to-UE session performance has been requested.

analyticsId:

type: string

description: String identifying the UE-to-UE session analytics

suppFeat:

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

required:

- dataOutputs

- valUeIds

Ue2UeRepThreshold:

description: Identifies reporting threshold corresponding to the analytics.

type: object

properties:

thrName:

$ref: 'TS29549\_SS\_ADAE\_Ue2UePerformanceAnalytics.yaml#/components/schemas/U2UAnalytics'

thrValue:

description: Indicates the value for the analytics threshold.

type: string

thrMatchDirect:

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

required:

- thrName

- thrValue

- thrMatchDirect

DataCollectReq:

description: Contains data collection requirements.

type: object

properties:

dataFormat:

description: Indicates the format of the requested data.

type: string

repPeriod:

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

abstractLevel:

description: Indicates the desired level of abstraction of the requested data.

type: string

accuracyLevel:

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

required:

- dataFormat

PullSrvExpInfo:

description: Contains VAL server and service identities.

type: object

properties:

valServerId:

type: string

valServiceId:

type: string

required:

- valServerId

SrvExpInfoRep:

description: Allows ADAEC to provide the service experience report to the ADAES.

type: object

properties:

valUeId:

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

valServerId:

type: string

description: String identifying the VAL server the service experience report applies.

valServiceId:

type: string

description: String identifying the VAL service

timeStamp:

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

valSrvExpRep:

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

required:

- valUeId

- valServerId

# Simple data types and Enumerations

\*\*\* End of Change \*\*\*