**3GPP TSG-CT WG3 Meeting #142 *C3-253215***

**Goteborg, SE, 25 - 29 August 2025**

|  |
| --- |
| *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:***  | EN resolution in SS\_AADRF\_DataManagement API |
|  |  |
| ***Source to WG:*** | Ericsson |
| ***Source to TSG:*** | C3 |
|  |  |
| ***Work item code:*** | TEI19\_ADAES |  | ***Date:*** | 2025-08-04 |
|  |  |  |  |  |
| ***Category:*** | B |  | ***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 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 remaining ENs for the SS\_AADRF\_DataManagement API shall be resolved before the end of the Release. |
|  |  |
| ***Summary of change:*** | This CR proposes to resolve the ENs:* Clasue 5.11.8.2.5.2, it is proposed to align with SA2 implementation for the ADRF.
* Addition of new AdaeAnalyticsId enumeration to represent the list of specified ADAE analytics.
 |
|  |  |
| ***Consequences if not approved:*** | The Release 19 cannot be frozen due to remaining ENs |
|  |  |
| ***Clauses affected:*** | 5.11.8.2.5.2, 7.10.8.5.1, 7.10.8.5.2.11, 7.10.8.5.3.5 (new), A.22 |
|  |  |
|  | **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 new feature for the following APIs:TS29549\_SS\_AADRF\_DataManagement.yaml |
|  |  |
| ***This CR's revision history:*** |  |

\* \* \* First change \* \* \* \*

###### 5.11.8.2.5.2 Requesting to store data using the Data\_Storage service operation

In order to store data at A-ADRF, the consumer shall send an HTTP POST request (i.e., custom operation "Store") to the A-ADRF as specified in clause 7.10.8.3.2. The request body shall include the DataStoreReq data structure defined in clause 7.10.8.5.2.9.

Upon receiving the HTTP POST message as described above, the A-ADRF shall:

1. verify the identity of the consumer and check if the consumer is authorized to store the data;

2. if the consumer is authorized, the A-ADRF shall process the request:

a. if "subDataStore" attribute is provided within DataStoreReq data structure as described in clause 8.10.2.1 of 3GPP TS 29.436 [38];

b. if "dirStorage" attribute is provided within DataStoreReq data structure as described in clause 8.10.2.2 of 3GPP TS 29.436 [38]; and

c. respond to the consumer with an HTTP "200 OK" status code with DataStoreResp data structure defined in clause 7.10.8.5.2.15.

and

3. if the A-ADRF is unable to satisfy the request, the A-ADRF shall respond to the consumer with an appropriate error status code as specified in clause 7.10.8.5.

\* \* \* Next change \* \* \* \*

##### 7.10.8.5.1 General

This clause specifies the application data model supported by the API. Data types listed in clause 6.2 apply to this API

Table 7.10.8.5.1-1 specifies the data types defined specifically for the SS\_AADRF\_DataManagement API service.

**Table 7.10.8.5.1-1: SS\_AADRF\_DataManagement API specific Data Types**

|  |  |  |  |
| --- | --- | --- | --- |
| **Data type** | **Section defined** | **Description** | **Applicability** |
| AdaeAnalyticsId | 7.10.8.5.3.5 | Represents the ADAE analytics identifier. |  |
| AnalyticsMode | 7.10.8.5.2.16 | Represents the analytics mode. |  |
| AadrfEvent | 7.10.8.5.3.1 | Indicates the subscribed events. |  |
| ApiLogInfo | 7.10.8.5.2.7 | Represents the API log data. |  |
| ApiLogReq | 7.10.8.5.2.5 | Represents the API log request requirement. |  |
| Data | 7.10.8.5.2.11 | Represent the data for storage at A-ADRF. |  |
| DataManageNotification | 7.10.8.5.2.6 | Represents the notification to the consumer. |  |
| DataManageSub | 7.10.8.5.2.2 | Represents the events subscription. |  |
| DataProducerProfile | 7.10.8.5.2.12 | Represents the data producer profile. |  |
| DataSourceInfo | 7.10.8.5.2.13 | Represents the data source information. |  |
| DataStoreReq | 7.10.8.5.2.9 | Represents the data storage request. |  |
| DataStoreResp | 7.10.8.5.2.15 | Represents the data storage response. |  |
| DataStoreSub | 7.10.8.5.2.10 | Represents the requirements for subscription based data storage. |  |
| DataType | 7.10.8.5.3.3 | Represents the type of data. |  |
| EdgeInfo | 7.10.8.5.2.8 | Represents the EDGE related data. |  |
| EdgeReq | 7.10.8.5.2.4 | Represents the EDGE data request requirement. |  |
| EventSubscription | 7.10.8.5.2.3 | Represents the event subscription. |  |
| ExposureLevel | 7.10.8.5.3.2 | Indicates the exposure level. |  |
| Mode | 7.10.8.5.3.4 | Represents the supported modes of analytics. |  |
| S2SAnalyticsInfo | 7.10.8.5.2.18 | Represents the Server to Server Analytics related data. | EdgeApp\_3 |
| S2SAnalyticsReq | 7.10.8.5.2.17 | Represents the Server to Server Analytics request requirements. | EdgeApp\_3 |
| StorageHandlingInfo | 7.10.8.5.2.14 | Represent the storage handing information. |  |
| UERatAnalyticsInfo | 7.10.8.5.2.20 | Represents UE RAT Connectivity Analytics data. | 5GSatApp\_1 |
| UERatAnalyticsReq | 7.10.8.5.2.19 | Represents UE RAT Connectivity Analytics requirements. | 5GSatApp\_1 |

Table 7.10.8.5.1-2 specifies data types re-used by the SS\_AADRF\_DataManagement API service.

**Table 7.10.8.5.1-2: Re-used Data Types**

|  |  |  |  |
| --- | --- | --- | --- |
| **Data type** | **Reference** | **Comments** | **Applicability** |
| DataTime | 3GPP TS 29.122 [3] | Represents data and time. |  |
| Dnai | 3GPP TS 29.571 [21] | Identifies a user plane access to one or more DN(s). |  |
| Dnn | 3GPP TS 29.571 [21] | Used to Identify a DNN. |  |
| DurationSec | 3GPP TS 29.122 [3] | Represents duration in seconds. |  |
| Float | 3GPP TS 29.571 [21] | Used to represent the fractional part of the proximity range in the reference UE details. |  |
| LocationArea5G | 3GPP TS 29.122 [3] | Represents the location information. |  |
| S2SPerfAnalyticsData | Clause 7.10.14.6.2.5 | Contains the Server to Server Analytics data. | EdgeApp\_3 |
| ServerInfo | Clause 7.10.14.6.2.6 | Represents the Server Information. | EdgeApp\_3 |
| Snssai | 3GPP TS 29.571 [21] | Used to Identify the S-NSSAI. |  |
| SupportedFeatures | 3GPP TS 29.571 [21] | Used to negotiate the applicability of optional features. |  |
| TimeWindow | 3GPP TS 29.122 [3] | Indicates the time window. | EdgeApp\_3 |
| UeRatAnalyticsOutput | Clause 7.10.12.6.2.8 | Contains the UE RAT connectivity analytics output. |  |
| Uinteger | 3GPP TS 29.571 [21] | Used to represent integer attributes within MeasurementData and ReportingRequirements data structures. |  |
| Uri | 3GPP TS 29.571 [21] | Used to indicate the notification URI. |  |
| ValTargetUe | Clause 7.3.1.4.2.3 | Used to indicate either VAL User ID or VAL UE ID. |  |
| ValidityConditions | Clause 7.5.1.4.2.13 | Represents the temporal and/or spatial conditions applied for the events to be monitored. |  |
| ValUeAddrInfo | Clause 7.4.1.4.2.30 | Represents VAL UE address information. |  |

\* \* \* Next change \* \* \* \*

7.10.8.5.2.11 Type: Data

**Table 7.10.8.5.2.11-1: Definition of type Data**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Attribute name** | **Data type** | **P** | **Cardinality** | **Description** | **Applicability** |
| dataType | DataType | M | 1 | Represents the type of data. |  |
| content | Bytes | M | 1 | Represents the data that shall be stored. |  |
| timestamp | DateTime | M | 1 | Represents the timestamp |  |
| analyticsId | AdaeAnalyticsId | M | 1 | Represents the analytics identifier. |  |
| analyticsType | AnalyticsType | M | 1 | Represents the analytics type. |  |
| dataSource | DataSourceInfo | M | 1 | Represent the data source informaion. |  |

\* \* \* Next change \* \* \* \*

7.10.8.5.3.5 Enumeration: AdaeAnalyticsId

**Table 7.10.8.5.3.5-1: Enumeration AdaeAnalyticsId**

|  |  |  |
| --- | --- | --- |
| **Enumeration value** | **Description** | **Applicability** |
| VAL\_SERVER\_PERF | Indicates that requested analytics is VAL server performance analytics. |  |
| VAL\_SESSION\_PERF | Indicates that requested analytics is VAL session performance analytics. |  |
| SLICE\_PERFORMANCE\_ANALYTICS | Indicates that requested analytics is slice performance analytics. |  |
| UE\_TO\_UE\_PERFORMANCE\_ANALYTICS | Indicates that requested analytics is UE-to-UE performance analytics. |  |
| LOCATION\_ACCURACY\_PREDICTION | Indicates that the requested analytics is location accuracy prediction. |  |
| LOCATION\_ACCURACY\_SUSTAINABILITY | Indicates that the requested analytics is location accuracy sustainability. |  |
| SERVICE\_API\_ANALYTICS | Indicates that the requested analytics is service API analytics. |  |
| SLICE\_USAGE\_PATTERN\_ANALYTICS | Indicated that the requested analytics is slice usage pattern analytics. |  |
| EDGE\_LOAD\_ANALYTICS | Indicated that the requested analytics is edge load analytics. |  |
| GROUP\_ROUTE | Indicates that the requested analytics is UE group route analytics. |  |
| GROUP\_MEMBER\_DEVIATION | Indicates that the requested analytics is UE group member deviation analytics. |  |
| TARGET\_WITH\_OTHER\_UES | Indicates that the requested analytics is collision detection between the sets of target and other VAL UEs within a location. |  |
| ANY\_UES\_IN\_LOC | Indicates that the requested analytics is collision detection between any VAL UEs within given location. |  |
| APP\_MEMBER\_CAPABILITY\_ANALYTICS | Indicates that the identifier of the Application layer AIML member capability analytics event. |  |
| UE\_RAT\_CONNECTIVITY\_ANALYTICS | Indicates that the requested analytics is UE RAT connectivity analytics event. |  |
| SERVER\_TO\_SERVER\_PERFORMANCE | Indicates that the requested analytics is Server-to-Server Performance Analytics. |  |

\* \* \* Next change \* \* \* \*

# A.22 SS\_AADRF\_DataManagement API

openapi: 3.0.0

info:

 title: SS\_AADRF\_DataManagement

 description: |

 API for A-ADRF Data Management Service.

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 version: "1.1.0-alpha.1"

externalDocs:

 description: >

 3GPP TS 29.549 V19.3.0 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-aadrf-datamanagement/v1'

 variables:

 apiRoot:

 default: https://example.com

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

paths:

 /subscriptions:

 post:

 summary: Create Individual A-ADRF Data Management Subscription.

 operationId: CreateAADRFEventSubscription

 tags:

 - A-ADRF Data Management Subscriptions (Collection)

 requestBody:

 required: true

 content:

 application/json:

 schema:

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

 responses:

 '201':

 description: >

 The requested Individual A-ADRF Data Management Subscription is successfully created and

 a representation of the created resource is returned in the response body.

 content:

 application/json:

 schema:

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

 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'

 callbacks:

 myNotification:

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

 post:

 summary: Notify on the requested data.

 requestBody:

 required: true

 content:

 application/json:

 schema:

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

 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'

 /subscriptions/{subscriptionId}:

 parameters:

 - name: subscriptionId

 in: path

 description: >

 Represents the Individual A-ADRF Data Management Subscription resource.

 required: true

 schema:

 type: string

 delete:

 summary: Remove the Individual A-ADRF Data Management Subscription.

 operationId: UnsubscribeAADRFEventSubscription

 tags:

 - Individual A-ADRF Data Management Subscription (Document).

 responses:

 '204':

 description: >

 The individual A-ADRF Data Management Subscription resource matching the subscriptionId

 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'

 /store:

 post:

 summary: Enables a service consumer to request data storage.

 operationId: StoreData

 tags:

 - Data Storage Service

 requestBody:

 content:

 application/json:

 schema:

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

 required: true

 responses:

 '200':

 description: >

 Successful case. The data storage request is successfully received and processed.

 content:

 application/json:

 schema:

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

 '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'

 default:

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

components:

 securitySchemes:

 oAuth2ClientCredentials:

 type: oauth2

 flows:

 clientCredentials:

 tokenUrl: '{tokenUrl}'

 scopes: {}

 schemas:

 DataManageSub:

 description: Represents the event subscriptions.

 type: object

 properties:

 eventSubscriptions:

 type: array

 items:

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

 minItems: 1

 description: Subscribed events.

 notifUri:

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

 notifCorrId:

 type: string

 description: Notification correlation identifier.

 supportedFeatures:

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

 required:

 - eventSubscriptions

 - notifUri

 EventSubscription:

 description: Represents the event subscription.

 type: object

 properties:

 event:

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

 dataCollectReq:

 type: string

 dataProducerIds:

 type: array

 items:

 type: string

 minItems: 1

 description: The list of Data Producer IDs.

 valUes:

 type: array

 items:

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

 minItems: 1

 description: The target VAL UE(s) identifiers.

 valServerId:

 type: string

 description: The target VAL server ID.

 valServiceId:

 type: string

 description: The VAL service ID.

 profileCriteria:

 type: string

 validConds:

 $ref: 'TS29549\_SS\_Events.yaml#/components/schemas/ValidityConditions'

 snssais:

 type: array

 items:

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

 minItems: 1

 description: Identification(s) of network slice(s) to which the subscription applies.

 edgeReq:

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

 apiLogReq:

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

 s2sAnaReq:

 $ref: '#/components/schemas/S2SAnalyticsReq'

 ueRatAnaReq:

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

 required:

 - event

 EdgeReq:

 description: Represents the EDGE data request requirement.

 type: object

 properties:

 dnais:

 type: array

 items:

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

 minItems: 1

 description: Identifiers the DN Access Identifier.

 dnns:

 type: array

 items:

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

 minItems: 1

 description: Identifiers the DN Access Identifier.

 destEasId:

 type: string

 description: Identifier for the destination EAS.

 destEesId:

 type: string

 description: Identifier for the destination EES.

 anyOf:

 - required: [dnais]

 - required: [dnns]

 - required: [destEasId]

 - required: [destEesId]

 ApiLogReq:

 description: Represents the API log request requirement.

 type: object

 properties:

 apiRequestorInfo:

 type: string

 apiId:

 type: string

 description: String identifying the API invoked.

 apiName:

 type: string

 description: Name of the API which was invoked.

 apiVersion:

 type: string

 description: Version of the API which was invoked.

 inputParameters:

 type: string

 description: List of input parameters.

 result:

 type: string

 description: For HTTP protocol, it contains HTTP status code of the invocation.

 apiInvokerId:

 type: string

 description: Identity of the API invoker which invoked the service API.

 exposureLvl:

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

 apiAggreInfo:

 type: string

 required:

 - apiRequestorInfo

 S2SAnalyticsReq:

 description: >

 Represents the Server to Server analytics data request requirement.

 type: object

 properties:

 serverInfoList:

 type: array

 items:

 $ref: 'TS29549\_SS\_ADAE\_ServerToServerPerformanceAnalytics.yaml#/components/schemas/ServerInfo'

 minItems: 1

 timeVal:

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

 required:

 - serverInfoList

 UERatAnalyticsReq:

 description: Represents the UE RAT connectivity analytics requirements.

 type: object

 properties:

 area:

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

 timeVal:

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

 valUeAddrInfo:

 type: array

 items:

 $ref: 'TS29549\_SS\_NetworkResourceAdaptation.yaml#/components/schemas/ValUeAddrInfo'

 minItems: 1

 required:

 - valUeAddrInfo

 DataManageNotification:

 description: Represents the notification to the consumer.

 type: object

 properties:

 event:

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

 notifCorrId:

 type: string

 description: Notification correlation identifier.

 valServerId:

 type: string

 description: The target VAL server ID.

 valServiceId:

 type: string

 description: The VAL service ID.

 valUeIds:

 type: array

 items:

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

 minItems: 1

 description: The target VAL UE(s) identifiers.

 locAccuracy:

 type: string

 validConds:

 $ref: 'TS29549\_SS\_Events.yaml#/components/schemas/ValidityConditions'

 apiLogs:

 type: array

 items:

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

 minItems: 1

 description: The API logs information.

 rttDeviation:

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

 snssais:

 type: array

 items:

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

 minItems: 1

 description: Identification(s) of network slice(s) to which the subscription applies.

 edgeInfo:

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

 s2SAnaResp:

 $ref: '#/components/schemas/S2SAnalyticsInfo'

 ueRatAnaInfo:

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

 required:

 - event

 ApiLogInfo:

 description: Represents the API log data.

 type: object

 properties:

 apiId:

 type: string

 description: String identifying the API invoked.

 apiName:

 type: string

 description: Name of the API which was invoked.

 failNum:

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

 apiAvailableInd:

 type: boolean

 description: Indicates the API availability.

 apiVerChgNum:

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

 apiLocChg:

 type: boolean

 description: Indicates the API location changes for the target API.

 apiThrottlingEvents:

 type: string

 invokeNum:

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

 apiVersion:

 type: string

 description: Version of the API which was invoked.

 required:

 - apiId

 EdgeInfo:

 description: Represents the EDGE related data.

 type: object

 properties:

 edgeReq:

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

 output:

 type: string

 S2SAnalyticsInfo:

 description: >

 Represents the Server to Server analytics data information.

 type: object

 properties:

 dataOutput:

 $ref: 'TS29549\_SS\_ADAE\_ServerToServerPerformanceAnalytics.yaml#/components/schemas/S2SPerfAnalyticsData'

 serverInfoList:

 type: array

 items:

 $ref: 'TS29549\_SS\_ADAE\_ServerToServerPerformanceAnalytics.yaml#/components/schemas/ServerInfo'

 minItems: 1

 required:

 - dataOutput

 - serverInfoList

 UERatAnalyticsInfo:

 description: Represents the UE RAT Connectivity Analytics data information.

 type: object

 properties:

 analyticsOut:

 type: array

 items:

 $ref: 'TS29549\_SS\_ADAE\_UeRatConnectivityAnalytics.yaml#/components/schemas/UeRatAnalyticsOutput'

 minItems: 1

 required:

 - analyticsOut

 DataStoreReq:

 description: Represents the data storage request.

 type: object

 properties:

 subDataStore:

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

 dirStorage:

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

 storeHandl:

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

 suppFeat:

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

 oneOf:

 - required: [subDataStore]

 - required: [dirStorage]

 DataStoreSub:

 description: Represents the requirements for subscription based data storage.

 type: object

 properties:

 dataProdId:

 type: string

 analyticsId:

 type: string

 analyticsType:

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

 analyticsMode:

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

 profiles:

 type: array

 items:

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

 minItems: 1

 area:

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

 duration:

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

 Data:

 description: Represent the data for storage at A-ADRF.

 type: object

 properties:

 dataType:

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

 content:

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

 timestamp:

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

 analyticsId:

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

 analyticsType:

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

 dataSource:

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

 required:

 - dataType

 - content

 - timestamp

 - analyticsId

 - analyticsType

 - dataSource

 DataProducerProfile:

 description: Represents the data producer profile.

 type: object

 properties:

 profile:

 type: string

 oneOf:

 - required: [profile]

 DataSourceInfo:

 description: Represents the data source information.

 type: object

 properties:

 source:

 type: string

 oneOf:

 - required: [source]

 StorageHandlingInfo:

 description: Represent the storage handing information.

 type: object

 properties:

 lifetime:

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

 delNotifUri:

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

 anyOf:

 - required: [lifetime]

 - required: [delNotifUri]

 DataStoreResp:

 description: Represents the data storage response.

 type: object

 properties:

 storeHandl:

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

 suppFeat:

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

 required:

 - storeHandl

 AnalyticsMode:

 description: Represents the analytics mode.

 type: object

 properties:

 mode:

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

 isMlEnab:

 type: boolean

 required:

 - mode

# Simple data types and Enumerations

 AadrfEvent:

 anyOf:

 - type: string

 enum:

 - HISTORICAL\_SERVICEAPI

 - NETWORK\_SLICE

 - EDGE\_DATA

 - LOCATION\_ACCURACY

 - SERVER\_TO\_SERVER\_ANALYTICS

 - UE\_RAT\_ANALYTICS

 - 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: |

 Indicates the subscribed events.

 Possible values are:

 - HISTORICAL\_SERVICEAPI: The event for historical service API logs.

 - NETWORK\_SLICE: The event for the network slice data.

 - EDGE\_DATA: The event for the EDGE related data.

 - LOCATION\_ACCURACY: The event for the location accuracy data.

 - SERVER\_TO\_SERVER\_ANALYTICS: The event for the Server to Server analytics data.

 - UE\_RAT\_ANALYTICS: The event for the UE RAT Connectivity analytics data.

 ExposureLevel:

 anyOf:

 - type: string

 enum:

 - READ

 - WRITE

 - DELETE

 - 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: |

 Indicates the exposure level.

 Possible values are:

 - READ: The exposure level for the logs to be exposed is read.

 - WRITE: The exposure level for the logs to be exposed is write.

 - DELETE: The exposure level for the logs to be exposed is delete.

 DataType:

 anyOf:

 - type: string

 enum:

 - DATA

 - ANALYTICS

 - DELETE

 - 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 type of data.

 Mode:

 anyOf:

 - type: string

 enum:

 - ONLINE

 - OFFLINE

 - 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 supported modes of analytics.

 AdaeAnalyticsId:

 anyOf:

 - type: string

 enum:

 - VAL\_SERVER\_PERF

 - VAL\_SESSION\_PERF

 - SLICE\_PERFORMANCE\_ANALYTICS

 - UE\_TO\_UE\_PERFORMANCE\_ANALYTICS

 - LOCATION\_ACCURACY\_PREDICTION

 - LOCATION\_ACCURACY\_SUSTAINABILITY

 - SERVICE\_API\_ANALYTICS

 - SLICE\_USAGE\_PATTERN\_ANALYTICS

 - EDGE\_LOAD\_ANALYTICS

 - GROUP\_ROUTE

 - GROUP\_MEMBER\_DEVIATION

 - TARGET\_WITH\_OTHER\_UES

 - ANY\_UES\_IN\_LOC

 - APP\_MEMBER\_CAPABILITY\_ANALYTICS

 - UE\_RAT\_CONNECTIVITY\_ANALYTICS

 - SERVER\_TO\_SERVER\_PERFORMANCE

 - 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: |

 Indicates the subscribed events.

 Possible values are:

 - VAL\_SERVER\_PERF: Indicates that requested analytics is VAL server performance analytics.

 - VAL\_SESSION\_PERF: Indicates that requested analytics is VAL session performance analytics.

 - SLICE\_PERFORMANCE\_ANALYTICS: Indicates that requested analytics is slice performance analytics.

 - UE\_TO\_UE\_PERFORMANCE\_ANALYTICS: Indicates that requested analytics is UE-to-UE performance analytics.

 - LOCATION\_ACCURACY\_PREDICTION: Indicates that the requested analytics is location accuracy prediction.

 - LOCATION\_ACCURACY\_SUSTAINABILITY: Indicates that the requested analytics is location accuracy sustainability.

 - SERVICE\_API\_ANALYTICS: Indicates that the requested analytics is service API analytics.

 - SLICE\_USAGE\_PATTERN\_ANALYTICS: Indicated that the requested analytics is slice usage pattern analytics.

 - EDGE\_LOAD\_ANALYTICS: Indicated that the requested analytics is edge load analytics.

 - GROUP\_ROUTE: Indicates that the requested analytics is UE group route analytics.

 - GROUP\_MEMBER\_DEVIATION: Indicates that the requested analytics is UE group member deviation analytics.

 - TARGET\_WITH\_OTHER\_UES: Indicates that the requested analytics is collision detection between the sets of target and other VAL UEs within a location.

 - ANY\_UES\_IN\_LOC: Indicates that the requested analytics is collision detection between any VAL UEs within given location.

 - APP\_MEMBER\_CAPABILITY\_ANALYTICS: Indicates that the identifier of the Application layer AIML member capability analytics event.

 - UE\_RAT\_CONNECTIVITY\_ANALYTICS: Indicates that the requested analytics is UE RAT connectivity analytics event.

 - SERVER\_TO\_SERVER\_PERFORMANCE: Indicates that the requested analytics is Server-to-Server Performance Analytics.

\* \* \* End of changes \* \* \* \*