**3GPP TSG CT WG3 Meeting #137 *C3-245xxx***

**Hefei, CN, 14th – 18th October, 2024 was C3-245190**

|  |
| --- |
| *CR-Form-v12.3* |
| **CHANGE REQUEST** |
|  |
|  |  | **CR** | **0224** | **rev** | **1** | **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:***  | Updates and corrections to the allowed MNO information for an EAS |
|  |  |
| ***Source to WG:*** | Huawei, Ericsson |
| ***Source to TSG:*** | CT3 |
|  |  |
| ***Work item code:*** | EDGEAPP\_Ph3 |  | ***Date:*** | 2024-10-07 |
|  |  |  |  |  |
| ***Category:*** | **B** |  | ***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:*** | As per the Rel-19 stage 2 updates, the EAS may have multiple allowed PLMNs in the frame of the edge node sharing functionality.For example, as agreed in CT3#136, the EES profile defined in Table 9.1.5.2.3-1 was updated to include the "allowedMNOsInfo" that contains the list of allowed PLMN(s) (one or multiple) for the EASs registered at the EES. |
|  |  |
| ***Summary of change:*** | This CR proposes to:* Align the definition of the EAS Profile according to the above detailed stage 2 updates.
 |
|  |  |
| ***Consequences if not approved:*** | * The above-detailed stage 2 requirements are not completely defined in stage 3.
 |
|  |  |
| ***Clauses affected:*** | 8.1.5.2.3, 8.1.7, 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 introduces backwards compatible corrections to the OpenAPI description of the Eees\_EASRegistration API defined in this specification. |
|  |  |
| ***This CR's revision history:*** |  |

\* \* \* \* Start of changes \* \* \* \*

##### 8.1.5.2.3 Type: EASProfile

Table 8.1.5.2.3-1: Definition of type EASProfile

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Attribute name | Data type | P | Cardinality | Description | Applicability |
| easId | string | M | 1 | The application identifier of the EAS (e.g. URI, FQDN). |  |
| endPt | EndPoint | M | 1 | Endpoint information (URI, FQDN, IP address) used to communicate with the EAS. This information maybe discovered by EEC and exposed to ACs so that ACs can establish contact with the EAS. |  |
| allowedPlmnId | PlmnIdNid | O | 0..1 | Contains the allowed PLMN ID from which the subscriber can consume the services of the EAS.(NOTE 4, NOTE 5) | EdgeApp\_2 |
| allowedPlmnIds | array(PlmnIdNid) | O | 1..N | Contains the allowed PLMN ID(s) from which the subscriber can consume the services of the EAS.(NOTE 5) | EdgeApp\_3 |
| easBdlInfos | array(EASBundleInfo) | O | 1..N | Represents the list of EAS bundle(s) to which the EAS (identified by the "easId" attribute) belongs, and for each one of them, the corresponding EAS bundle information.(NOTE 3) | EdgeApp\_2 |
| acIds | array(string) | O | 1..N | Identities of the Application Clients that can be served by the EAS |  |
| provId | string | O | 0..1 | Identifier of the ASP that provides the EAS. |  |
| type | EASCategory | O | 0..1 | The EAS type with the 3GPP standardized value set.(NOTE 1). |  |
| flexEasType | string | O | 0..1 | The EAS type with the flexible value set.(NOTE 1) |  |
| scheds | array(ScheduledCommunicationTime) | O | 1..N | The availability schedule of the EAS. |  |
| svcArea | ServiceArea | O | 0..1 | The list of geographical and topological areas that the EAS serves. ACs in the UE that are outside the area shall not be served. |  |
| svcKpi | EASServiceKPI | O | 0..1 | Service characteristics provided by the EAS.  |  |
| permLvl | array(PermissionLevel) | O | 1..N | Level of service permissions supported by the EAS.  |  |
| easFeats | array(string) | O | 1..N | Service specific features supported by the EAS (e.g. single vs multi-player gaming service). |  |
| svcContSupp | array(ACRScenario) | O | 1..N | The ACR scenarios supported by the EAS for service continuity. If this attribute is not present, then the EAS does not support service continuity. |  |
| svcContSuppExt1 | array(EASBundleInfo) | O | 1..N | Represents the information related to the EAS ability to handle bundled EAS ACRs.This attribute may be present only when the "svcContSupp" attribute is also present.When this attribute is present, it indicates that the EAS (identified by the "easId" attribute) is able to handle bundled EAS ACRs and contains the information of the EAS bundle(s) for which the EAS is able to handle bundled EAS ACRs. | EdgeApp\_2 |
| transContSupp | TransContSuppDetails | O | 0..1 | Represents the detailed information about the EAS (e.g. SEALDD Server) capability for seamless transport layer service continuity.If this attribute is not present, then the EAS does not support the seamless transport layer service continuity capability. | SEALDDSupport |
| appLocs | array(RouteToLocation) | O | 1..N | List of DNAI(s) and the corresponding N6 traffic routing information/routing profile ID, associated with the EAS.It is a subset of the DNAI(s) associated with the EDN where the EAS resides. |  |
| avlRep | DurationSec | O | 0..1 | The period indicating to the EES, how often the EES needs to check the EAS's availability after a successful registration. |  |
| status | string | O | 0..1 | EAS status (e.g. Enabled, Disabled etc.) |  |
| genCtxDur | DurationSec | O | 0..1 | Contains the general context holding time duration, which indicates the time duration during which the EAS holds the application context in case of an ACR for service continuity planning. | EdgeApp\_2 |
| easSyncSupp | boolean | O | 0..1 | Indicates whether the EAS supports content synchronization between EASs.- When set to "true", it indicates that content synchronization between EASs is supported by the EAS.- When set to "false", it indicates that content synchronization between EASs is not supported by the EAS.- The default value when this attribute is omitted is "false". | EdgeApp\_2 |
| NOTE 1: The "flexEasType" attribute and the "type" attribute are mutually exclusive. Either one of them may be provided. The same attribute should be used when this data type is conveyed over the EDGE-1 and EDGE-3 interfaces (i.e. for the Eees\_EASRegistration and the Eees\_EASDiscovery APIs).NOTE 2: Void.NOTE 3: Within any instance of the EASBundleInfo data structure used to encode an array element of this attribute, the "easIdsList" attribute may be present only when the "bdlId" attribute is also present and the "bdlType" attribute is set to "PROXY".NOTE 4: When the "EdgeApp\_3" feature is not supported, the "allowedPlmnId" attribute shall include only the MNO information of the leading ECSP in case of edge node sharing scenario and the "allowedPlmnIds" attribute shall not be present.NOTE 5: When the "EdgeApp\_3" feature is supported and the "allowedPlmnIds" attribute is present, then the "allowedPlmnId" attribute shall shall not be present. |

\* \* \* \* Next changes \* \* \* \*

### 8.1.7 Feature negotiation

General feature negotiation procedures are defined in clause 7.8. Table 8.1.7-1 lists the supported features for Eees\_EASRegistration API.

Table 8.1.7-1: Supported Features

|  |  |  |
| --- | --- | --- |
| Feature number | Feature Name | Description |
| 1 | SEALDDSupport | This feature indicates the support of the SEALDD functionality related enhancements.The following functionalities are supported:- Support the EAS capability for seamless transport layer service continuity within the EAS profile. |
| 2 | EdgeApp\_2 | This feature indicates the support of the first set of enhancements to the Edge Applications functionalities.The following functionalities are supported:- Support of the indication of the general context holding time.- Support of the EAS bundle functionality.- Support of the indication of the EAS ability to handle bundled EAS ACRs within the EAS profile.- Support of allowed MNO information in the EAS Profile.- Support the provisioning of the indication on EAS support for content synchronization. |
| 3 | EdgeApp\_3 | This feature indicates the support of the second set of enhancements to the Edge Applications functionalities.The following sub-functionalities are supported:- Support multiple allowed PLMNs for an EAS. |

\* \* \* \* Next changes \* \* \* \*

# A.2 Eees\_EASRegistration API

openapi: 3.0.0

info:

 title: EES EAS Registration\_API

 description: |

 API for EAS Registration.

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 version: 1.1.0

externalDocs:

 description: >

 3GPP TS 29.558 V18.6.0 Enabling Edge Applications;

 Application Programming Interface (API) specification; Stage 3

 url: https://www.3gpp.org/ftp/Specs/archive/29\_series/29.558/

servers:

 - url: '{apiRoot}/eees-easregistration/v1'

 variables:

 apiRoot:

 default: https://example.com

 description: apiRoot as defined in clause 7.5 of 3GPP TS 29.558.

security:

 - {}

 - oAuth2ClientCredentials: []

paths:

 /registrations:

 post:

 summary: Creates a new Individual EAS Registration resource

 operationId: CreateEASRegistration

 tags:

 - EAS Registrations (Collection)

 description: Registers a new EAS at an EES.

 requestBody:

 required: true

 content:

 application/json:

 schema:

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

 responses:

 '201':

 description: EAS information is registered successfully at EES.

 content:

 application/json:

 schema:

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

 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'

 /registrations/{registrationId}:

 get:

 summary: Read an Individual EAS Registration resource

 operationId: ReadIndEASRegistration

 tags:

 - Individual EAS Registration (Document)

 description: Retrieve an Individual EAS registration resource.

 parameters:

 - name: registrationId

 in: path

 description: Registration Id.

 required: true

 schema:

 type: string

 responses:

 '200':

 description: OK (The EAS registration information at the EES).

 content:

 application/json:

 schema:

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

 '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'

 '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'

 put:

 summary: Update an Individual EAS Registration resource

 operationId: UpdateIndEASRegistration

 tags:

 - Individual EAS Registration (Document)

 description: Fully replace an existing EAS Registration resource.

 parameters:

 - name: registrationId

 in: path

 description: EAS registration Id.

 required: true

 schema:

 type: string

 requestBody:

 required: true

 content:

 application/json:

 schema:

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

 responses:

 '200':

 description: OK (The EAS registration information is updated successfully).

 content:

 application/json:

 schema:

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

 '204':

 description: >

 No Content. The individual EAS registration information is updated successfully.

 '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'

 patch:

 summary: Modify an Individual EAS Registration resource

 operationId: ModifyIndEASRegistration

 tags:

 - Individual EAS Registration (Document)

 description: Partially update an existing EAS Registration resource.

 parameters:

 - name: registrationId

 in: path

 description: EAS registration Id.

 required: true

 schema:

 type: string

 requestBody:

 description: Partial update of an existing EAS registration resource.

 required: true

 content:

 application/merge-patch+json:

 schema:

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

 responses:

 '200':

 description: >

 The Individual EAS registration is successfully modified and the updated

 registration information is returned in the response.

 content:

 application/json:

 schema:

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

 '204':

 description: >

 No Content. The individual EAS registration information is updated successfully.

 '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'

 delete:

 summary: Delete an Individual EAS Registration resource

 operationId: DeleteIndEASRegistration

 tags:

 - Individual EAS Registration (Document)

 description: Delete an existing EAS registration at EES.

 parameters:

 - name: registrationId

 in: path

 description: EAS registration Id.

 required: true

 schema:

 type: string

 responses:

 '204':

 description: The individual EAS registration 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:

 EASRegistration:

 type: object

 description: Represents an EAS registration information.

 properties:

 easProf:

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

 expTime:

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

 suppFeat:

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

 required:

 - easProf

 EASProfile:

 type: object

 description: Represents the EAS profile information.

 properties:

 easId:

 type: string

 description: Identifier of the EAS.

 endPt:

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

 allowedPlmnId:

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

 allowedPlmnIds:

 easBdlInfos:

 type: array

 items:

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

 minItems: 1

 easBdlInfos:

 type: array

 items:

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

 minItems: 1

 acIds:

 type: array

 items:

 type: string

 minItems: 1

 description: Identities of application clients that are served by the EAS.

 provId:

 type: string

 description: Identifier of the ASP that provides the EAS.

 type:

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

 flexEasType:

 type: string

 description: The EAS type with flexible value set.

 scheds:

 type: array

 items:

 $ref: 'TS29122\_CpProvisioning.yaml#/components/schemas/ScheduledCommunicationTime'

 minItems: 1

 description: The availability schedule of the EAS.

 svcArea:

 $ref: 'TS29558\_Eecs\_EESRegistration.yaml#/components/schemas/ServiceArea'

 svcKpi:

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

 permLvl:

 type: array

 items:

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

 minItems: 1

 description: level of service permissions supported by the EAS.

 easFeats:

 type: array

 items:

 type: string

 minItems: 1

 description: Service specific features supported by EAS.

 appLocs:

 type: array

 items:

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

 minItems: 1

 description: List of DNAI(s) and the N6 traffic information associated with the EAS.

 svcContSupp:

 type: array

 items:

 $ref: 'TS29558\_Eecs\_EESRegistration.yaml#/components/schemas/ACRScenario'

 minItems: 1

 description: The ACR scenarios supported by the EAS for service continuity.

 svcContSuppExt1:

 type: array

 items:

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

 minItems: 1

 description: >

 Represents the information related to the EAS ability to handle bundled EAS ACRs.

 This attribute may be present only when the "svcContSupp" attribute is also present.

 When this attribute is present, it indicates that the EAS (identified by the "easId"

 attribute) is able to handle bundled EAS ACRs and contains the information of the EAS

 bundle(s) for which the EAS is able to handle bundled EAS ACRs.

 transContSupp:

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

 avlRep:

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

 status:

 type: string

 description: EAS status information.

 genCtxDur:

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

 easSyncSupp:

 type: boolean

 default: false

 description: >

 Set to true to indicate that content synchronization between EASs is supported.

 Set to false to indicate that content synchronization between EASs is not supported.

 The default value when this attribute is omitted is false.

 required:

 - easId

 - endPt

 not:

 required: [ type, flexEasType ]

 EASRegistrationPatch:

 type: object

 description: Represents partial update request of individual EAS registration information.

 properties:

 easProf:

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

 expTime:

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

 EASServiceKPI:

 type: object

 description: Represents the EAS service KPI information.

 properties:

 maxReqRate:

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

 maxRespTime:

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

 avail:

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

 avlComp:

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

 avlGraComp:

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

 avlMem:

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

 avlStrg:

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

 connBand:

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

 EASBundleInfo:

 type: object

 description: Represents the EAS bundle information.

 properties:

 bdlType:

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

 bdlId:

 type: string

 description: Indicates a bundle ID.

 easIdsList:

 type: array

 items:

 type: string

 minItems: 1

 easBdlReqs:

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

 mainEasId:

 type: string

 required:

 - bdlType

 anyOf:

 - required: [bdlId]

 - required: [easIdsList]

 EASBdlReqs:

 type: object

 description: Represents the EAS bundle requirements.

 properties:

 coordinatedEasDisc:

 type: boolean

 default: false

 description: >

 Set to true to indicate that coordianted EAS discovery is required.

 Set to false to indicate that coordianted EAS discovery is not required.

 The default value when this attribute is omitted is false.

 coordinatedAcr:

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

 affinity:

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

 CoordinatedAcrReqs:

 type: object

 description: Represents the coordinated ACR related requirements for an EAS bundle.

 properties:

 coordinatedAcrInd:

 type: boolean

 default: false

 description: >

 Set to true to indicate that coordianted ACR is required.

 Set to false to indicate that coordianted ACR is not required.

 The default value when this attribute is omitted is false.

 failureAction:

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

 required:

 - coordinatedAcrInd

 EndPoint:

 type: object

 description: The end point information to reach EAS.

 properties:

 fqdn:

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

 ipv4Addrs:

 type: array

 items:

 $ref: 'TS29122\_CommonData.yaml#/components/schemas/Ipv4Addr'

 minItems: 1

 description: IPv4 addresses of the edge server.

 ipv6Addrs:

 type: array

 items:

 $ref: 'TS29122\_CommonData.yaml#/components/schemas/Ipv6Addr'

 minItems: 1

 description: IPv6 addresses of the edge server.

 uri:

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

 oneOf:

 - required: [uri]

 - required: [fqdn]

 - required: [ipv4Addrs]

 - required: [ipv6Addrs]

 PermissionLevel:

 anyOf:

 - type: string

 enum:

 - TRIAL

 - GOLD

 - SILVER

 - OTHER

 - type: string

 description: >

 This string provides forward-compatibility with future

 extensions to the enumeration but is not used to encode

 content defined in the present version of this API.

 description: |

 Indicates the level of service permissions supported by the EAS.

 Possible values are:

 - TRIAL: Level of service permission supported is TRIAL.

 - GOLD: Level of service permission supported is GOLD.

 - SILVER: Level of service permission supported is SILVER.

 - OTHER: Any other level of service permissions supported.

 EASCategory:

 anyOf:

 - type: string

 enum:

 - UAS

 - V2X

 - APP\_ENABLER

 - OTHER

 - type: string

 description: >

 This string provides forward-compatibility with future

 extensions to the enumeration but is not used to encode

 content defined in the present version of this API.

 description: |

 Indicates the category or type of the EAS.

 Possible values are:

 - UAS: Indicates that the EAS category is for UAS services.

 - V2X: Indicates that the EAS category is for V2X services.

 - APP\_ENABLER: Indicates that the EAS category is for Application Enabler (e.g., SEAL)

 services.

 - OTHER: Indicates any other EAS category.

 TransContSuppDetails:

 type: object

 description: >

 Represents the detailed information about the EAS (e.g. SEALDD Server) capability for

 seamless transport layer service continuity.

 properties:

 transProtocs:

 type: array

 items:

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

 minItems: 1

 description: >

 Indicates the transport layer protocols supported for EAS context transfer using

 the seamless transport layer service continuity capability.

 required:

 - transProtocs

 TransportProtocol:

 anyOf:

 - type: string

 enum:

 - QUIC

 - TCP

 - TCP\_TLS

 - 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 transport layer protocol.

 Possible values are:

 - QUIC: Indicates the QUIC protocol.

 - TCP: Indicates the Transmission Control (TCP) Protocol.

 - TCP\_TLS: Indicates the Transmission Control Protocol (TCP) with Transport Layer Security

 (TLS) protocol.

 BdlType:

 anyOf:

 - type: string

 enum:

 - DIRECT

 - PROXY

 - 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 EAS Bundle type.

 Possible values are:

 - DIRECT: Indicates that the EAS Bundle type is direct bundle.

 - PROXY: Indicates that the EAS Bundle type is proxy bundle.

 Affinity:

 anyOf:

 - type: string

 enum:

 - STRONG

 - PREFERRED

 - WEAK

 - 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 affinity requirements of an EAS bundle.

 Possible values are:

 - STRONG: Indicates that the affinity is strong, i.e., all the EASs of the bundle shall be

 in the same EDN.

 - PREFERRED: Indicates that the affinity is preferred, i.e., it is preferred to have all the

 EASs of the bundle in the same EDN, but it is not essential.

 - WEAK: Indicates that the affinity is weak, i.e., it is not essential to have all the EASs

 of the bundle in the same EDN.

 FailureAction:

 anyOf:

 - type: string

 enum:

 - CANCEL

 - PROCEED

 - 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 EAS bundle related failure action during ACR.

 Possible values are:

 - CANCEL: Indicates that ACR shall be cancelled for the other EAS(s) of the bundle for which

 ACR is not failed.

 - PROCEED: Indicates that ACR shall proceed for the other EAS(s) of the bundle for which

 ACR is not failed.

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