**3GPP TSG CT WG3 Meeting #137 *C3-245451***

**Hefei, CN, 14 - 18 October, 2024** (Revision of C3-245234)

|  |
| --- |
| *CR-Form-v12.3* |
| **CHANGE REQUEST** |
|  |
|  | **558** | **CR** |  | **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:***  | Application group profile – end to end response time |
|  |  |
| ***Source to WG:*** | Samsung |
| ***Source to TSG:*** | CT3 |
|  |  |
| ***Work item code:*** | EDGEAPP\_Ph3 |  | ***Date:*** |  |
|  |  |  |  |  |
| ***Category:*** | **B** |  | ***Release:*** | 9 |
|  | *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 stage-2, the application group profile consists of end to end response time. There are no related editor notes in stage-2 for end to end response time attribute. The AppGrpProfile datatype needs to updated with end to end response time. |
|  |  |
| ***Summary of change:*** | Add end to end response time for AppGrpProfile data type. Related updates in Open API file. |
|  |  |
| ***Consequences if not approved:*** | End to end response time not supported for application group profile, aligning to stage-2. |
|  |  |
| ***Clauses affected:*** | 9.4.6.1, 9.4.6.2.9, A.18 |
|  |  |
|  | **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 proposes backward compatible feature to Eecs\_ECSServiceProvisioning Open API file. |
|  |  |
| ***This CR's revision history:*** |  |

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

#### 9.4.6.1 General

This clause specifies the application data model supported by the API.

Table 9.4.6.1-1 specifies the data types defined for the Eecs\_ECSServiceProvisioning API.

Table 9.4.6.1-1: Eecs\_ECSServiceProvisioning API specific Data Types

|  |  |  |  |
| --- | --- | --- | --- |
| Data type | Clause defined | Description | Applicability |
| AppGrpProfile | 9.4.6.2.9 | Represents the application group profile. | EdgeApp\_3 |
| AppInfo | 9.4.6.2.8 | Represents the application information. | EdgeApp\_3 |
| FederationInfo | 9.4.6.2.7 | Represents federation agreements related information. |  |
| ServProvNotif | 9.4.6.2.6 | Represents a Service Provisioning Notification. |  |
| ServProvReq | 9.4.6.2.2 | Represents a Service Provisioning information retrieval request. |  |
| ServProvResp | 9.4.6.2.3 | Represents a Service Provisioning information retrieval response. |  |
| ServProvSubsc | 9.4.6.2.4 | Represents a Service Provisioning Subscription. |  |
| ServProvSubscPatch | 9.4.6.2.5 | Represents the requested modifications to a Service Provisioning Subscription. |  |

Table 9.4.6.1-2 specifies data types re-used by the Eecs\_ECSServiceProvisioning API from other specifications, including a reference to their respective specifications, and when needed, a short description of their use within the Eecs\_ECSServiceProvisioning API.

Table 9.4.6.1-2: Eecs\_ECSServiceProvisioning API re-used Data Types

|  |  |  |  |
| --- | --- | --- | --- |
| Data type | Reference | Comments | Applicability |
| ACProfile | 3GPP TS 24.558 [14] | Represents an AC profile. |  |
| ConnectivityInfo | 3GPP TS 24.558 [14] | Represents connectivity information. |  |
| DateTime | 3GPP TS 29.122 [6] | Represents a date and a time. |  |
| DurationSec | 3GPP TS 29.122 [6] | Represents a time duration in seconds. |  |
| EDNConfigInfo | 3GPP TS 24.558 [14] | Represents EDN related configuration information. |  |
| GeographicArea | 3GPP TS 29.572 [11] | Represents the geographical information. | EdgeApp\_3 |
| LocationInfo | 3GPP TS 29.122 [6] | Represents location information. |  |
| SupportedFeatures | 3GPP TS 29.571 [18] | Represents the list of supported feature(s) and used to negotiate the applicability of the optional features. |  |
| Uinteger | 3GPP TS 29.571 [8] | Represents the end to end response time. | EdgeApp\_3 |
| Uri | 3GPP TS 29.122 [6] | Represents a time duration. |  |

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

##### 9.4.6.2.9 Type: AppGrpProfile

Table 9.4.6.2.9-1: Definition of type AppGrpProfile

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Attribute name | Data type | P | Cardinality | Description | Applicability |
| appGrpId | string | M | 1 | Contains the targeted application group identifier. |  |
| e2eRespTime | Uinteger | O | 0..1 | Contains the required response time for end to end communications between ACs one two UEs via EAS(s), expressed in units of milliseconds. |  |
| easId | string | M | 1 | Contains the identifier of the EAS. |  |
| expGeoAreas | array(GeographicArea) | O | 0..1 | Contains the expected location(s) (e.g., route) of the group of UE(s) during the AC's operation schedule. |  |

Editor's note: The contents of the AppGrpProfile data type is FFS depends on SA6 to resolve the related editor's notes.

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

# A.18 Eecs\_ECSServiceProvisioning API

openapi: 3.0.0

info:

 title: ECS Service Provisioning Service

 version: 1.1.0-alpha.1

 description: |

 ECS Service Provisioning Service.

 © 2024, 3GPP Organizational Partners (ARIB, ATIS, CCSA, ETSI, TSDSI, TTA, TTC).

 All rights reserved.

externalDocs:

 description: >

 3GPP TS 29.558 V19.0.0; 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}/eecs-esp/v1'

 variables:

 apiRoot:

 default: https://example.com

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

security:

 - {}

 - oAuth2ClientCredentials: []

paths:

 /request:

 post:

 summary: Enables to request service provisioning information.

 operationId: ServProvRetReq

 tags:

 - Service Provisioning Information Retrieval Request

 requestBody:

 required: true

 content:

 application/json:

 schema:

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

 responses:

 '200':

 description: >

 OK. The requested service provisioning information shall be returned in the response

 body.

 content:

 application/json:

 schema:

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

 '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:

 post:

 summary: Request the creation of a Service Provisioning Subscription.

 operationId: CreateServProvSubsc

 tags:

 - Service Provisioning Subscriptions (Collection)

 requestBody:

 required: true

 content:

 application/json:

 schema:

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

 responses:

 '201':

 description: >

 Created. The Service Provisioning Subscription is successfully created and a

 representation of the created Individual Service Provisioning Subscription resource

 shall be returned.

 content:

 application/json:

 schema:

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

 headers:

 Location:

 description: >

 Contains the URI of the created Individual Service Provisioning Subscription

 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:

 ServProvNotif:

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

 post:

 requestBody:

 required: true

 content:

 application/json:

 schema:

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

 responses:

 '204':

 description: >

 No Content. The Service Provisioning Notification is successfully received and

 acknowledged.

 '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/{subscId}:

 parameters:

 - name: subscId

 in: path

 description: >

 Represents the identifier of the Individual Service Provisioning Subscription resource.

 required: true

 schema:

 type: string

 get:

 summary: Retrieve an existing Individual Service Provisioning Subscription resource.

 operationId: GetIndServProvSubsc

 tags:

 - Individual Service Provisioning Subscription (Document)

 responses:

 '200':

 description: >

 OK. The requested Individual Service Provisioning Subscription resource shall be

 returned.

 content:

 application/json:

 schema:

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

 '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: Request the update of an existing Individual Service Provisioning Subscription resource.

 operationId: UpdateIndServProvSubsc

 tags:

 - Individual Service Provisioning Subscription (Document)

 requestBody:

 required: true

 content:

 application/json:

 schema:

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

 responses:

 '200':

 description: >

 OK. The Individual Service Provisioning Subscription resource is successfully updated

 and a representation of the updated resource shall be returned in the response body.

 content:

 application/json:

 schema:

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

 '204':

 description: >

 No Content. The Individual Service Provisioning Subscription resource is successfully

 updated and no content is returned in the response body.

 '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'

 patch:

 summary: Request the modification of an existing Individual Service Provisioning Subscription resource.

 operationId: ModifyIndServProvSubsc

 tags:

 - Individual Service Provisioning Subscription (Document)

 requestBody:

 required: true

 content:

 application/merge-patch+json:

 schema:

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

 responses:

 '200':

 description: >

 OK. The Individual Service Provisioning Subscription resource is successfully modified

 and a representation of the updated resource shall be returned in the response body.

 content:

 application/json:

 schema:

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

 '204':

 description: >

 No Content. The Individual Service Provisioning Subscription resource is successfully

 modified and no content is returned in the response body.

 '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'

 delete:

 summary: Request the deletion of an existing Individual Service Provisioning Subscription resource.

 operationId: DeleteIndServProvSubsc

 tags:

 - Individual Service Provisioning Subscription (Document)

 responses:

 '204':

 description: >

 No Content. The Individual Service Provisioning Subscription resource is successfully

 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'

 '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'

components:

 securitySchemes:

 oAuth2ClientCredentials:

 type: oauth2

 flows:

 clientCredentials:

 tokenUrl: '{tokenUrl}'

 scopes: {}

 schemas:

#

# STRUCTURED DATA TYPES

#

 ServProvReq:

 description: >

 Represents a Service Provisioning information retrieval request.

 type: object

 properties:

 federationInfo:

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

 acProfs:

 type: array

 items:

 $ref: 'TS24558\_Eees\_EECRegistration.yaml#/components/schemas/ACProfile'

 minItems: 1

 appInfos:

 type: array

 items:

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

 minItems: 1

 connInfo:

 type: array

 items:

 $ref: 'TS24558\_Eecs\_ServiceProvisioning.yaml#/components/schemas/ConnectivityInfo'

 minItems: 1

 locInfo:

 $ref: 'TS29122\_MonitoringEvent.yaml#/components/schemas/LocationInfo'

 suppFeat:

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

 ServProvResp:

 description: >

 Represents a Service Provisioning information retrieval response.

 type: object

 properties:

 ednConfigInfo:

 type: array

 items:

 $ref: 'TS24558\_Eecs\_ServiceProvisioning.yaml#/components/schemas/EDNConfigInfo'

 minItems: 1

 suppFeat:

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

 required:

 - ednConfigInfo

 ServProvSubsc:

 description: >

 Represents a Service Provisioning Subscription.

 type: object

 properties:

 notifUri:

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

 federationInfo:

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

 acProfs:

 type: array

 items:

 $ref: 'TS24558\_Eees\_EECRegistration.yaml#/components/schemas/ACProfile'

 minItems: 1

 connInfo:

 type: array

 items:

 $ref: 'TS24558\_Eecs\_ServiceProvisioning.yaml#/components/schemas/ConnectivityInfo'

 minItems: 1

 locInfo:

 $ref: 'TS29122\_MonitoringEvent.yaml#/components/schemas/LocationInfo'

 expTime:

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

 suppFeat:

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

 required:

 - notifUri

 ServProvSubscPatch:

 description: >

 Represents the requested modifications to a Service Provisioning Subscription.

 type: object

 properties:

 notifUri:

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

 federationInfo:

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

 acProfs:

 type: array

 items:

 $ref: 'TS24558\_Eees\_EECRegistration.yaml#/components/schemas/ACProfile'

 minItems: 1

 connInfo:

 type: array

 items:

 $ref: 'TS24558\_Eecs\_ServiceProvisioning.yaml#/components/schemas/ConnectivityInfo'

 minItems: 1

 locInfo:

 $ref: 'TS29122\_MonitoringEvent.yaml#/components/schemas/LocationInfo'

 expTime:

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

 ServProvNotif:

 description: >

 Represents a Service Provisioning Notification.

 type: object

 properties:

 subscId:

 type: string

 ednConfigInfo:

 type: array

 items:

 $ref: 'TS24558\_Eecs\_ServiceProvisioning.yaml#/components/schemas/EDNConfigInfo'

 minItems: 1

 lifetime:

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

 required:

 - subscId

 - ednConfigInfo

 FederationInfo:

 description: >

 Represents federation agreements related information.

 type: object

 properties:

 federationId:

 type: string

 required:

 - federationId

 AppInfo:

 description: >

 Represents the application informations.

 type: object

 properties:

 acProf:

 $ref: 'TS24558\_Eees\_EECRegistration.yaml#/components/schemas/ACProfile'

 appGrpProf:

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

 required:

 - acProf

 AppGrpProfile:

 description: >

 Represents application group profile.

 type: object

 properties:

 appGrpId:

 type: string

 e2eRespTime:

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

 easId:

 type: string

 expGeoAreas:

 type: array

 items:

 $ref: 'TS29572\_Nlmf\_Location.yaml#/components/schemas/GeographicArea'

 minItems: 1

 description: A list of geographic area information.

 required:

 - appGrpId

 - easId

# SIMPLE DATA TYPES

#

#

# ENUMERATIONS

#

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