**3GPP TSG-CT WG1 Meeting #141eC1-232466**

**Online 17– 21 April 2023**

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| --- |
| *CR-Form-v12.2* |
| **CHANGE REQUEST** |
|  |
|  | **24.558** | **CR** | **0039** | **rev** | **-** | **Current version:** | **18.0.0** |  |
|  |
| *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:***  | Eecs\_ServiceProvisioning API: "operationId" fields |
|  |  |
| ***Source to WG:*** | Ericsson |
| ***Source to TSG:*** | C1 |
|  |  |
| ***Work item code:*** | NBI18 |  | ***Date:*** | 2023-03-27 |
|  |  |  |  |  |
| ***Category:*** | **F** |  | ***Release:*** | Rel-18 |
|  | *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-16 (Release 16)Rel-17 (Release 17)Rel-18 (Release 18)Rel-19 (Release 19)* |
|  |  |
| ***Reason for change:*** | In accordance with TS 29.122, clause 5.2.9.13 an "operationId" field should be assigned to each specified service operation.Two white spaces used to indicate that line breaks need to be kept in the output formatting (see clause 5.3.19 of TS 29.501), need to be added in the end of first two lines of a description field of the info object.Furthermore, clause 5.2.9.2 of TS 29.122 specifies that trailing whitespaces (i.e. spaces and tabs located at the end of line, without any other character following it) should not be used in OpenAPI specification files. |
|  |  |
| ***Summary of change:*** | The "operationId" field added to each service operation.Description field of the info object updated in accordance with TS 29.501, clause 5.3.19.Trailing whitespaces removed.**Backward compatibility analysis:**This CR introduces backward correction to the Eecs\_ServiceProvisioning API since it adds missing "operationId" fields. |
|  |  |
| ***Consequences if not approved:*** | The OpenAPI file of Eees\_EASDiscovery API not aligned with requirements specified in with TS 29.122, clause 5.2.9.13 and TS 29.501, clause 5.3.19. |
|  |  |
| ***Clauses affected:*** | B.1 |
|  |  |
|  | **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 backward compatible correction to the OpenAPI file of Eecs\_ServiceProvisioning API. |
|  |  |
| ***This CR's revision history:*** |  |

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

# B.1 Eecs\_ServiceProvisioning

openapi: 3.0.0

info:

 title: Eecs\_ServiceProvisioning

 version: "1.1.0-alpha.1"

 description: |

 API for ECS Service Provisioning.

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externalDocs:

 description: 3GPP TS 24.558 V18.0.0 Enabling Edge Applications; Protocol specification.

 url: https://www.3gpp.org/ftp/Specs/archive/24\_series/24.558/

security:

 - {}

 - oAuth2ClientCredentials: []

servers:

 - url: '{apiRoot}/eecs-serviceprovisioning/v1'

 variables:

 apiRoot:

 default: https://example.com

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

paths:

 /subscriptions:

 post:

 description: >

 Creates a new subscription in ECS in order to be notified of provisioning data

 changes of interest.

 operationId: CreateServProvSub

 tags:

 - Service Provisioning Subscriptions (Collection)

 requestBody:

 required: true

 content:

 application/json:

 schema:

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

 callbacks:

 notificationDestination:

 '{request.body#/notificationDestination}':

 post:

 requestBody: # contents of the callback message

 required: true

 content:

 application/json:

 schema:

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

 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: >

 Individual ECS Service Provisioning Subscription resource created successfully.

 content:

 application/json:

 schema:

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

 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'

 /subscriptions/{subscriptionId}:

 put:

 description: >

 Updates an existing individual service provisioning subscription identified

 by the subscriptionId.

 operationId: UpdateIndServProvSub

 tags:

 - Individual Service Provisioning Subscription (Document)

 parameters:

 - name: subscriptionId

 in: path

 description: Identifies an individual service provisioning subscription.

 required: true

 schema:

 type: string

 requestBody:

 description: Parameters to replace the existing subscription.

 required: true

 content:

 application/json:

 schema:

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

 responses:

 '200':

 description: >

 OK (The individual service provisioning subscription matching the subscriptionId

 was modified successfully).

 content:

 application/json:

 schema:

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

 '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:

 description: >

 Deletes an existing individual service provisioning subscription identified by

 the subscriptionId.

 operationId: DeleteIndServProvSub

 tags:

 - Individual Service Provisioning Subscription (Document)

 parameters:

 - name: subscriptionId

 in: path

 description: Identifies an individual service provisioning subscription.

 required: true

 schema:

 type: string

 responses:

 '204':

 description: >

 The individual service provisioning subscription 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'

 patch:

 description: >

 Partially updates an existing individual service provisioning subscription identified

 by the subscriptionId.

 operationId: ModifyIndServProvSub

 tags:

 - Individual Service Provisioning Subscription (Document)

 parameters:

 - name: subscriptionId

 in: path

 description: Identifies an individual service provisioning subscription.

 required: true

 schema:

 type: string

 requestBody:

 description: Parameters to replace the existing subscription.

 required: true

 content:

 application/json:

 schema:

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

 responses:

 '200':

 description: >

 OK (The individual service provisioning subscription matching the subscriptionId

 was modified successfully).

 content:

 application/json:

 schema:

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

 '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'

 /request:

 post:

 summary: Request service provisioning information.

 operationId: RequestServProv

 tags:

 - Request Service Provisioning

 requestBody:

 required: true

 content:

 application/json:

 schema:

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

 responses:

 '200':

 description: >

 OK (The requested service provisioning information was returned successfully).

 content:

 application/json:

 schema:

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

 '204':

 description: >

 No Content (The requested service provisioning information does not exist).

 '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'

components:

 securitySchemes:

 oAuth2ClientCredentials:

 type: oauth2

 flows:

 clientCredentials:

 tokenUrl: '{tokenUrl}'

 scopes: {}

 schemas:

 ECSServProvReq:

 description: ECS service provisioning request information.

 type: object

 properties:

 eecId:

 type: string

 description: Represents a unique identifier of the EEC.

 ueId:

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

 acProfs:

 type: array

 items:

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

 description: Information about services the EEC wants to connect to.

 eecSvcContSupp:

 type: array

 items:

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

 description: >

 Indicates if the EEC supports service continuity or not, also indicates which

 ACR scenarios are supported by the EEC.

 connInfo:

 type: array

 items:

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

 description: List of connectivity information for the UE.

 locInf:

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

 suppFeat:

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

 required:

 - eecId

 ECSServProvResp:

 description: ECS service provisioning response information.

 type: object

 properties:

 ednCnfgInfo:

 type: array

 items:

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

 minItems: 1

 description: List of EDN configuration information.

 required:

 - ednCnfgInfo

 ECSServProvSubscription:

 description: Represents an individual service provisioning subscription resource.

 type: object

 properties:

 eecId:

 type: string

 description: Represents a unique identifier of the EEC.

 ueId:

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

 acProfs:

 type: array

 items:

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

 description: Information about services the EEC wants to connect to.

 expTime:

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

 eecSvcContSupp:

 type: array

 items:

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

 description: >

 Indicates if the EEC supports service continuity or not, also indicates which

 ACR scenarios are supported by the EEC.

 connInfo:

 type: array

 items:

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

 description: List of connectivity information for the UE.

 notificationDestination:

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

 requestTestNotification:

 type: boolean

 description: >

 Set to true by Subscriber to request the ECS to send a test notification. Set to

 false or omitted otherwise.

 websockNotifConfig:

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

 suppFeat:

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

 required:

 - eecId

 ServProvNotification:

 description: Represents notification information of a service provisioning Event.

 type: object

 properties:

 subId:

 type: string

 description: >

 Identifier of the individual service provisioning subscription for which the service

 provisioning notification is delivered.

 ednCnfgInfo:

 type: array

 items:

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

 minItems: 1

 description: List of EDN configuration information.

 required:

 - subId

 - ednCnfgInfo

 ConnectivityInfo:

 description: Represents the connectivity information for the UE.

 type: object

 properties:

 plmnId:

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

 ssId:

 type: string

 description: Identifies the SSID of the access point to which the UE is attached.

 EDNConfigInfo:

 description: Represents the EDN configuration information.

 type: object

 properties:

 ednConInfo:

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

 eess:

 type: array

 items:

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

 minItems: 1

 description: Contains the list of EESs of the EDN.

 lifeTime:

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

 required:

 - ednConInfo

 - eess

 EDNConInfo:

 description: Represents an EDN connection information.

 type: object

 properties:

 dnn:

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

 snssai:

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

 ednTopoSrvArea:

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

 EESInfo:

 description: Represents EES information.

 type: object

 properties:

 eesId:

 type: string

 description: Identity of the EES.

 endPt:

 $ref: 'TS29558\_Eees\_EASRegistration.yaml#/components/schemas/EndPoint'

 easIds:

 type: array

 items:

 type: string

 description: >

 Application identities of the Edge Application Servers registered

 with the EES.

 ecspInfo:

 type: string

 description: Represents an ECSP Information.

 svcArea:

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

 dnais:

 type: array

 items:

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

 description: Represents list of Data network access identifiers.

 eesSvcContSupp:

 type: array

 items:

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

 description: >

 Indicates if the EES supports service continuity or not, also indicates which ACR

 scenarios are supported by the EES.

 eecRegConf:

 type: boolean

 description: >

 Indicates whether the EEC is required to register on the EES to use edge services

 or not.

 required:

 - eesId

 - eecRegConf

 ECSServProvSubscriptionPatch:

 description: >

 Represents modifications to an individual service provisioning subscription resource.

 type: object

 properties:

 acProfs:

 type: array

 items:

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

 description: Information about services the EEC wants to connect to.

 expTime:

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

 eecSvcContSupp:

 type: array

 items:

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

 description: >

 Indicates if the EEC supports service continuity or not, also indicates which ACR

 scenarios are supported by the EEC.

 connInfo:

 type: array

 items:

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

 description: List of connectivity information for the UE.

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