**3GPP TSG CT WG3 Meeting #138 *C3-246359***

**Orlando, US, 18 - 22 November, 2024** (revision of C3-246147)

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| --- |
| *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)*.* |
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| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| ***Proposed change affects:*** | UICC apps |  | ME |  | Radio Access Network |  | Core Network | **X** |

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|  |
| ***Title:***  | EDGEAPP – Correcting structured data types in query parameters |
|  |  |
| ***Source to WG:*** | Samsung, Ericsson |
| ***Source to TSG:*** | CT3 |
|  |  |
| ***Work item code:*** | NBI19 |  | ***Date:*** | 2024-11-11 |
|  |  |  |  |  |
| ***Category:*** | **F** |  | ***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:*** | During CT3#137 meeting, it was discussed to correct the formatting of the structured data types in query parameters. The NBI APIs should be consistent in formatting of the structured data types in query parameters, i.e, should be “content”” block with “application/JSON” media type. The formatting of the following query parameters in EDGEAPP APIs need to be corrected:Eees\_EECContextRelocation API: "sess-cntxs"Eecs\_TargetEESDiscovery API: "ue-location" |
|  |  |
| ***Summary of change:*** | Correct the formatting of following structured data type query parameters:Eees\_EECContextRelocation API: "sess-cntxs"Eecs\_TargetEESDiscovery API: "ue-location" |
|  |  |
| ***Consequences if not approved:*** | Inconsistent formatting of the query parameters. |
|  |  |
| ***Clauses affected:*** | A.8, A.12 |
|  |  |
|  | **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 correction to the following Open API specification files: Eees\_EECContextRelocation API, Eecs\_TargetEESDiscovery API |
|  |  |
| ***This CR's revision history:*** |  |

\* \* \* \* Start of Changes \* \* \* \*

# A.8 Eees\_EECContextRelocation API

openapi: 3.0.0

info:

 title: EES EEC Context Relocation API

 version: 1.2.0-alpha.1

 description: |

 API for EEC Context Relocation.

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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/

security:

 - {}

 - oAuth2ClientCredentials: []

servers:

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

 variables:

 apiRoot:

 default: https://example.com

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

paths:

 /eec-contexts:

 post:

 summary: Push EEC Context information.

 operationId: PushEecContexts

 tags:

 - EEC contexts (Collection)

 requestBody:

 required: true

 content:

 application/json:

 schema:

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

 responses:

 '200':

 description: >

 OK. The EEC context has been successfully pushed to the EES and related

 information is returned in the response body.

 content:

 application/json:

 schema:

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

 '204':

 description: No Content. The EEC context has been successfully pushed to the EES.

 '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'

 get:

 summary: Pull EEC Context information.

 operationId: PullEecContexts

 tags:

 - EEC contexts (Collection)

 parameters:

 - name: ees-id

 in: query

 description: Unique identifier of the requesting entity.

 required: true

 schema:

 type: string

 - name: eec-cntx-id

 in: query

 description: Unique identifier of the EEC context.

 required: true

 schema:

 type: string

 - name: sess-cntxs

 in: query

 description: List of service session context information being requested.

 required: false

 content:

 application/json:

 schema:

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

 responses:

 '200':

 description: >

 OK. The EEC context information matching the query parameters in the request

 shall be returned.

 content:

 application/json:

 schema:

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

 '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:

 SessionContexts:

 type: object

 description: Represents the list of service session contexts information.

 properties:

 sessCntxs:

 type: array

 items:

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

 minItems: 1

 description: List of service session contexts information.

 required:

 - sessCntxs

 IndividualSessionContext:

 type: object

 description: Represents a single service session context information.

 properties:

 easId:

 type: string

 description: Identifier of the Application Server providing the application services.

 endPt:

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

 acId:

 type: string

 description: Identifier of the AC for which the service session information is provided.

 acrList:

 type: array

 items:

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

 minItems: 1

 description: The list of selected ACR scenarios.

 eecId:

 type: string

 appGrpId:

 type: string

 required:

 - easId

 - endPt

 EECContextPush:

 type: object

 description: Represents the EEC context push request data.

 properties:

 eesId:

 type: string

 description: Identifier of the entity that is pushing the EEC context information.

 eecCntx:

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

 tgtEas:

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

 acrScenariosSelReq:

 type: boolean

 description: >

 Set to true if the EEC indicates to select the ACR scenarisos.

 Set to false if it is not required to select the ACR scenarios.

 The default value when omitted is false.

 eecCntxs:

 type: array

 items:

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

 minItems: 1

 required:

 - eesId

 - eecCntx

 EECContextPushRes:

 type: object

 description: Represents the EEC context push response data.

 properties:

 implReg:

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

 selAcrScenariosList:

 type: array

 items:

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

 minItems: 1

 ImplicitRegDetails:

 type: object

 description: Represents the EEC implicit registration details.

 properties:

 regId:

 type: string

 description: Identifier of the EEC registration.

 expTime:

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

 required:

 - regId

 EECContext:

 type: object

 description: Represents the EEC context information.

 properties:

 eecId:

 type: string

 description: Unique idenitfier of the EEC.

 cntxId:

 type: string

 description: Unique idenitfier assigned to the EEC context.

 ueId:

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

 e1Subs:

 type: array

 items:

 type: string

 minItems: 1

 description: List of subscription IDs for the capability expsoure for the EEC ID.

 ueLoc:

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

 acProfs:

 type: array

 items:

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

 minItems: 1

 description: List AC profiles.

 sessCntxs:

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

 eecSrvContSupp:

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

 ueMobSuppInd:

 type: boolean

 description: >

 Set to true to indicate that UE Mobility support is required.

 Set to false to indicate that UE mobility support is not required.

 The default value when omitted is false.

 required:

 - eecId

 - cntxId

 EECSrvContinuitySupport:

 type: object

 description: Represents the EEC service continuity support details.

 properties:

 srvContSupp:

 type: boolean

 description: >

 Set to true if EEC supports service continuity.

 Set to false if EEC does not supports service continuity.

 The default value when omitted is false.

 acrScenarios:

 type: array

 items:

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

 minItems: 1

 description: The list of ACR scenarios supported by EEC.

 required:

 - srvContSupp

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

# A.12 Eecs\_TargetEESDiscovery API

openapi: 3.0.0

info:

 title: ECS Target EES Discovery API

 description: |

 API for Target EES Discovery.

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 version: 1.2.0-alpha.1

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/

security:

 - {}

 - oAuth2ClientCredentials: []

servers:

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

 variables:

 apiRoot:

 default: https://example.com

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

paths:

 /ees-profiles:

 get:

 summary: Read all the targeted Enabler Server Profiles

 operationId: GetEESProfiles

 tags:

 - EES Profiles (Collection)

 description: Retrieve the T-EES information.

 parameters:

 - name: ees-id

 in: query

 description: Unique identifier of the source Enabler Server.

 required: true

 schema:

 type: string

 - name: eas-id

 in: query

 description: Unique identifier of the source Application Server.

 required: true

 schema:

 type: string

 - name: target-dnai

 in: query

 description: >

 The DNAI information associated with the potential target Enabler Server(s)

 and/or target Application Server(s).

 required: false

 schema:

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

 - name: ue-id

 in: query

 description: Identifier of the UE.

 required: false

 schema:

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

 - name: ue-location

 in: query

 description: The location information of the UE.

 required: false

 content:

 application/json:

 schema:

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

 - name: eec-srv-cont-supp

 in: query

 description: >

 Indicates whether the EEC supports service continuity or not and the related service

 continuity support information.

 required: false

 schema:

 $ref: 'TS29558\_Eees\_EECContextRelocation.yaml#/components/schemas/EECSrvContinuitySupport'

 - name: ac-svc-cont-supp

 in: query

 description: >

 Indicates that the AC supports service continuity and contains the related service

 continuity support information (i.e., supported ACR scenarios).

 required: false

 schema:

 type: array

 items:

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

 minItems: 1

 - name: bdl-id

 in: query

 description: >

 Contains EAS bundle identifier.

 required: false

 schema:

 type: string

 - name: bdl-type

 in: query

 description: >

 Contains EAS bundle type.

 required: false

 schema:

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

 - name: ens-ind

 in: query

 description: indicates whether edge node sharing is requested.

 required: false

 schema:

 type: boolean

 description: >

 Set to true if edge node sharing is requested.

 Set to false if edge node sharing is not requested.

 The default value when omitted is false.

 - name: app-grp-id

 in: query

 description: >

 Contains the application group identifier.

 required: false

 schema:

 type: string

 - name: supp-feats

 in: query

 description: Contains the list of supported feature(s).

 required: false

 schema:

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

 - name: serving-mno-info

 in: query

 description: >

 Contains the serving MNO information, i.e., the MNO that is serving the subscriber.

 required: false

 schema:

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

 - name: pred-exp-time

 in: query

 description: >

 Contains the prediction expiration time.

 required: false

 schema:

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

 responses:

 '200':

 description: >

 The EDN configuration and the Enabler Server information determined by the ECS.

 content:

 application/json:

 schema:

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

 '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: {}

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