**3GPP TSG- WG3 Meeting #30 *4414\_r1***

**Xiamen, China, 9 - 13 October, 2023**  *(revision of C3-234414)*

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| *CR-Form-v12.2* | | | | | | | | |
| **CHANGE REQUEST** | | | | | | | | |
|  | | | | | | | | |
|  |  | **CR** | **0136** | **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:*** | Retreive EES using application group identifier | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Source to WG:*** | Samsung | | | | | | | | | |
| ***Source to TSG:*** | CT3 | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Work item code:*** | EDGEAPP\_Ph2 | | | | |  | ***Date:*** | | | 2023-09-29 |
|  |  | | | |  | |  | | |  |
| ***Category:*** |  |  | | | | | ***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 can be 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:*** | | As agreed in S6-231649, the target EES discovery service needs to support the retrieval of EESs for annoucement of common EAS, based on indication of application group identifier. Also, the Application group ID description needs to be aligned as agreed in S6-232632. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Summary of change:*** | | Following updates to Eecs\_TargetEESDiscovery service API   1. Update API data model to support fetching EES list based on application group identifier 2. Open API file update. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Consequences if not approved:*** | | Retrieval of EES list based on application group identifier indication is not supported. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Clauses affected:*** | | 9.2.2.2.3.1, 9.2.7, 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 change to Eecs\_TargetEESDiscovery API. | | | | | | | | |
|  | |  | | | | | | | | |
| ***This CR's revision history:*** | |  | | | | | | | | |

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

###### 9.2.2.2.3.1 GET

This method allows the service consumer to fetch the T-EES information as specified in 3GPP TS 23.558 [2], from the ECS with a given discovery filters. This method shall support the URI query parameters specified in table 9.2.2.2.3.1-1.

Table 9.2.2.2.3.1-1: URI query parameters supported by the GET method on this resource

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Name | Data type | P | Cardinality | Description | Applicability |
| ees-id | string | M | 1 | Unique identifier of the T-EES. |  |
| eas-id | string | M | 1 | Represents the application identifier of the S-EAS, e.g. URI, FQDN. |  |
| target-dnai | Dnai | O | 0..1 | The DNAI information associated with the potential T-EES(s) and/or T-EAS(s). |  |
| ue-id | Gpsi | O | 0..1 | Identifier of the UE. |  |
| ue-location | LocationArea5G | O | 0..1 | The location information of the UE. |  |
| eec-srv-cont-supp | EECSrvContinuitySupport | O | 0..1 | Indicates whether the EEC supports service continuity or not and the related service continuity support information. | EdgeApp\_2 |
| ac-svc-cont-supp | array(ACRScenario) | O | 1..N | Indicates that the AC supports service continuity and contains the related service continuity support information (i.e., supported ACR scenarios). | EdgeApp\_2 |
| bdl-id | string | O | 0..1 | Contains the identifier of the EAS bundle. | EdgeApp\_2 |
| bdl-type | BdlType | O | 0..1 | Contains the EAS bundle type. | EdgeApp\_2 |
| ens-ind | boolean | O | 0..1 | Indicates whether edge node sharing is requested.  When set to "true", it indicates that edge node sharing is requested.  When set to "false" (default if omitted), it indicates that node sharing is not requested. | EdgeApp\_2 |
| app-grp-id | string | O | 0..1 | The application group identifier as specified in clause 7.2.11 of 3GPP TS 23.558 [2].  When this query parameter is provided, then it indicates that the request is for the retrieval of an EES list for the announcement of common EAS. | EdgeApp\_2 |

This method shall support the request data structures specified in table 9.2.2.2.3.1-2 and the response data structures and response codes specified in table 9.2.2.2.3.1-3.

Table 9.2.2.2.3.1-2: Data structures supported by the GET Request Body on this resource

|  |  |  |  |
| --- | --- | --- | --- |
| Data type | P | Cardinality | Description |
| n/a |  |  |  |

Table 9.2.2.2.3.1-3: Data structures supported by the GET Response Body on this resource

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Data type | P | Cardinality | Response  codes | Description |
| ECSServProvResp | M | 1 | 200 OK | The EDN configuration and the T-EES information determined by the ECS based on the query parameters. |
| NOTE: The mandatory HTTP error status code for the GET method listed in Table 5.2.6-1 of 3GPP TS 29.122 [6] also apply. | | | | |

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

### 9.2.7 Feature negotiation

General feature negotiation procedures are defined in clause 7.8. Table 9.2.7-1 lists the supported features for Eecs\_TargetEESDiscovery API.

Table 9.2.7-1: Supported Features

|  |  |  |
| --- | --- | --- |
| **Feature number** | **Feature Name** | **Description** |
| 1 | EdgeApp\_2 | This feature indicates the support of the enhancements to the Edge Applications. Within this feature, the following enhancements are covered:  - Support T-EAS discovery based on EEC service continuity information and/or AC service continuity information.  - Support EAS bundle information management.  - Support of requesting edge node sharing.  - Support of T-EES discovery based on application group identifier. |

\* \* \* 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: 1.1.0-alpha.2

externalDocs:

description: >

3GPP TS 29.558 V18.3.0 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 EES Profiles

operationId: GetEESProfiles

tags:

- EES Profiles (Collection)

description: Retrieve the T-EES information.

parameters:

- name: ees-id

in: query

description: Unique identifier of the S-EES.

required: true

schema:

type: string

- name: eas-id

in: query

description: Unique identifier of the S-EAS.

required: true

schema:

type: string

- name: target-dnai

in: query

description: The DNAI information associated with the potential T-EES(s) and/or T-EAS(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

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

responses:

'200':

description: The EDN configuration and the T-EES information determined by 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 \* \* \* \*