**3GPP TSG-CT WG3 Meeting #135 *C3-243280***

**Hyderabad, IN, 27 - 31 May, 2024 (Revision of C3-24xxxx)**

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| *CR-Form-v12.3* | | | | | | | | |
| **CHANGE REQUEST** | | | | | | | | |
|  | | | | | | | | |
|  | **29.558** | **CR** | **0185** | **rev** | **-** | **Current version:** | **18.5.0** |  |
|  | | | | | | | | |
| *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)*.* | | | | | | | | |
|  | | | | | | | | |

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

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | | | | | | | | | | |
| ***Title:*** | Updates to Eees\_TrafficInfluenceEAS service | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Source to WG:*** | Ericsson | | | | | | | | | |
| ***Source to TSG:*** | CT3 | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Work item code:*** | EDGEAPP\_Ph2 | | | | |  | ***Date:*** | | | 2024-05-10 |
|  |  | | | |  | |  | | |  |
| ***Category:*** | **B** |  | | | | | ***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 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-17 (Release 17) Rel-18 (Release 18) Rel-19 (Release 19) Rel-20 (Release 20)* | |
|  |  | | | | | | | | | |
| ***Reason for change:*** | | SA6#60 agreed TS 23.558 CR 0613 adding more specific update requirement including add or delete target UEs which requires data model updates and adding related error handling. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Summary of change:*** | | Update the data model and error handling in Eees\_TrafficInfluenceEAS API. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Consequences if not approved:*** | | Not fully aligned with stage 2 requirement on supporting Eees\_TrafficInfluenceEAS API. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Clauses affected:*** | | 8.12.3.2.3.1, 8.12.3.3.3.2, 8.12.3.3.3.3, 8.12.3.3.3.4, 8.12.5.1, 8.12.5.2.2, 8.12.5.2.3, 8.12.6.3, A.17 | | | | | | | | |
|  | |  | | | | | | | | |
|  | | **Y** | **N** |  | | | |  | | |
| ***Other specs*** | | **X** |  | Other core specifications | | | | TS 23.558 CR 0613 | | |
| ***affected:*** | |  | **X** | Test specifications | | | | TS/TR ... CR ... | | |
| ***(show related CRs)*** | |  | **X** | O&M Specifications | | | | TS/TR ... CR ... | | |
|  | |  | | | | | | | | |
| ***Other comments:*** | | This CR introduces backwards compatible feature in the OpenAPI file of Eees\_TrafficInfluenceEAS API. | | | | | | | | |
|  | |  | | | | | | | | |
| ***This CR's revision history:*** | |  | | | | | | | | |

**Additional discussion(if needed):**

**Proposed changes:**

\*\*\* 1st Change \*\*\*











































































#### 8.12.5.1 General

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

Table 8.12.5.1-1 specifies the data types defined for the Eees\_TrafficInfluenceEAS API.

Table 8.12.5.1-1: Eees\_TrafficInfluenceEAS API specific Data Types

|  |  |  |  |
| --- | --- | --- | --- |
| Data type | Clause defined | Description | Applicability |
| AppTrafficInfluence | 8.12.5.2.2 | Represents the application traffic influence information. |  |
| AppTrafficInfluencePatch | 8.12.5.2.3 | Represents the parameters to request the modification of an application traffic influence instance. |  |

Table 8.12.5.1-2 specifies data types re-used by the Eees\_TrafficInfluenceEAS API from other specifications, including a reference to their respective specifications and when needed, a short description of their use within the Eees\_TrafficInfluenceEAS API.

Table 8.12.5.1-2: Eees\_TrafficInfluenceEAS API re-used Data Types

|  |  |  |  |
| --- | --- | --- | --- |
| Data type | Reference | Comments | Applicability |
| SupportedFeatures | 3GPP TS 29.571 [8] | Represents the list of supported features. |  |
| TargetUeIdentification | 8.6.5.2.8 | Indicates the target UE. |  |

\*\*\* 6th Change \*\*\*

##### 8.12.5.2.2 Type: AppTrafficInfluence

Table 8.12.5.2.2-1: Definition of type AppTrafficInfluence

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Attribute name | Data type | P | Cardinality | Description | Applicability |
| requestorId | string | M | 1 | Contains the identifier of the service consumer that is sending the request. |  |
| tgtUes | array(TargetUeIdentification) | C | 1..N | Indicates the target UE(s).  (NOTE 1) |  |
| addTgtUes | array(TargetUeIdentification) | C | 1..N | Indicates the target UE(s) to be added.  (NOTE 2) |  |
| deleTgtUes | array(TargetUeIdentification) | C | 1..N | Indicates the target UE(s) to be deleted.  (NOTE 2) |  |
| anyUe | boolean | C | 0..1 | Indicates whether the request applies to any UE.  - "true": Indicates that the request applies to any UE.  - "false": Indicates that the request does not apply to any UE.  - The default value when this attribute is omitted is "false".  (NOTE 1) (NOTE 2) |  |
| suppFeat | SupportedFeatures | C | 0..1 | Contains the list of supported features among the ones defined in clause 8.12.7.  This attribute shall be present only when feature negotiation needs to take place. |  |
| NOTE 1: Either the "anyUe" attribute set to the value "true" or the "tgtUes" attribute shall be present in the Application Traffic Influence creation request. The "edgeUeId" attribute within the TargetUeIdentification data type is not applicable for the "tgtUes" attribute.  NOTE 2: Either the "anyUe" attribute set to the value "true" or the "addTgtUes" and/or "deleTgtUes" attributes shall be present in the Application Traffic Influence update request. The "edgeUeId" attribute within the TargetUeIdentification data type is not applicable for the "addTgtUes" and "deleTgtUes" attributes. | | | | | |

\*\*\* 7th Change \*\*\*

##### 8.12.5.2.3 Type: AppTrafficInfluencePatch

Table 8.12.5.2.3-1: Definition of type AppTrafficInfluencePatch

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Attribute name | Data type | P | Cardinality | Description | Applicability |
| addTgtUes | array(TargetUeIdentification) | O | 1..N | Indicates the target UE(s) to be added.  (NOTE) |  |
| deleTgtUes | array(TargetUeIdentification) | O | 1..N | Indicates the target UE(s) to be deleted.  (NOTE) |  |
| anyUe | boolean | O | 0..1 | Indicates whether the request applies to any UE.  - "true": Indicates that the request applies to any UE.  - "false": Indicates that the request does not apply to any UE.  (NOTE) |  |
| NOTE: Either the "anyUe" attribute set to the value "true" or the "addTgtUes" and/or "deleTgtUes" attributes may be present. If the "anyUe" attribute is present and set to the "true" and the existing resource representation contains the "tgtUes" attribute, then the "tgtUes" attribute shall be deleted from the resource representation. If the "addTgtUes" and/or "deleTgtUes" attributes is present and the existing resource representation contains the "anyUe" attribute set to "true", the "anyUe" attribute shall either be deleted from the resource representation or its value changed to "false". | | | | | |



\*\*\* 9th Change \*\*\*

# A.17 Eees\_TrafficInfluenceEAS API

openapi: 3.0.0

info:

title: EES Application Traffic Influence Service

version: 1.0.0-alpha.1

description: |

EES Application Traffic Influence Service.

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externalDocs:

description: >

3GPP TS 29.558 V18.5.0; 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-tie/v1'

variables:

apiRoot:

default: https://example.com

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

paths:

/instances:

post:

summary: Create application traffic influence trigger from EAS.

operationId: CreateTraffInfluInstance

tags:

- Traffic Influence (Document)

requestBody:

required: true

content:

application/json:

schema:

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

responses:

'201':

description: Create a new individual Application Traffic Influence Instance.

headers:

Location:

description: Contains the URI of the newly created resource.

required: true

schema:

type: string

content:

application/json:

schema:

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

'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'

/instances/{instanceId}:

parameters:

- name: instanceId

in: path

description: Instance Id.

required: true

schema:

type: string

get:

summary: Read an Individual Application Traffic Influence Instance.

operationId: GetIndTraffInfluInstance

tags:

- Individual ACR Management Events Subscription (Document)

responses:

'200':

description: OK. The Individual Application Traffic Influence Instance is returned.

content:

application/json:

schema:

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

'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 Application Traffic Influence Instance.

operationId: UpdateIndTraffInfluInstance

tags:

- Individual Traffic Influence Instance (Document)

requestBody:

required: true

content:

application/json:

schema:

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

responses:

'200':

description: >

The Individual Application Traffic Influence Instance is successfully modified and the

representation of the updated resource is returned in the response body.

content:

application/json:

schema:

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

'204':

description: No Content.

'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 Application Traffic Influence Instance.

operationId: ModifyIndTraffInfluInstance

tags:

- Individual Traffic Influence Instance (Document)

requestBody:

required: true

content:

application/merge-patch+json:

schema:

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

responses:

'200':

description: >

The Individual Application Traffic Influence Instance is successfully modified and the

representation of the updated resource is returned in the response.

content:

application/json:

schema:

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

'204':

description: No Content.

'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 Traffic Influence Instance.

operationId: DeleteIndTraffInfluInstance

tags:

- Individual Traffic Influence Instance (Document)

responses:

'204':

description: >

The Individual Traffic Influence Instance 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'

'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:

AppTrafficInfluence:

description: >

Represents the application traffic influence information.

type: object

properties:

requestorId:

type: string

description: Contains the identifier of the service consumer that is sending the request.

tgtUes:

type: array

items:

$ref: 'TS29558\_Eees\_ACRManagementEvent.yaml#/components/schemas/TargetUeIdentification'

minItems: 1

addTgtUes:

type: array

items:

$ref: 'TS29558\_Eees\_ACRManagementEvent.yaml#/components/schemas/TargetUeIdentification'

minItems: 1

deleTgtUes:

type: array

items:

$ref: 'TS29558\_Eees\_ACRManagementEvent.yaml#/components/schemas/TargetUeIdentification'

minItems: 1

anyUe:

type: boolean

description: >

Indicates whether the request applies to any UE.

true indicates that the request applies to any UE.

False indicates that the request does not apply to any UE.

The default value when this attribute is omitted is false.

suppFeat:

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

AppTrafficInfluencePatch:

description: >

Represents the update of application traffic influence information.

type: object

properties:

addTgtUes:

type: array

items:

$ref: 'TS29558\_Eees\_ACRManagementEvent.yaml#/components/schemas/TargetUeIdentification'

minItems: 1

deleTgtUes:

type: array

items:

$ref: 'TS29558\_Eees\_ACRManagementEvent.yaml#/components/schemas/TargetUeIdentification'

minItems: 1

anyUe:

type: boolean

description: >

Indicates whether the request applies to any UE.

true indicates that the request applies to any UE.

False indicates that the request does not apply to any UE.

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