



TrafficInfluence

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OpenAPI

OpenAPI Version: 3.0.0

Info

Title: 3gpp-traffic-influence
Version: "1.0.0"

Servers

URL: '{apiRoot}/3gpp-traffic-influence/v1'

Variables:

API Root:

Default: https://example.com

Description: apiRoot as defined in subclause 5.2.4 of 3GPP TS 29.122.

Security

- {}
- oAuth2ClientCredentials: []

Paths

`{afld}/subscriptions`

Parameters:

- **Name:** afId
- In:** path
- Description:** Identifier of the AF
- Required/Optional:** true
- Schema:**
 - Type:** string

get:

Summary: read all of the active subscriptions for the AF

Tags:

- TrafficInfluence API SCS/AS level GET Operation

Responses:

- '200':
 - Description:** OK.
 - Content:**
 - Application/JSON:**
 - Schema:**
 - Type:** array
 - Items:**
 - Reference:** '#/components/schemas/TrafficInfluSub'
- '400':
 - Reference:** 'TS29122_CommonData.yaml#/components/responses/400'
- '401':
 - Reference:** 'TS29122_CommonData.yaml#/components/responses/401'
- '403':
 - Reference:** 'TS29122_CommonData.yaml#/components/responses/403'
- '404':
 - Reference:** 'TS29122_CommonData.yaml#/components/responses/404'
- '406':
 - Reference:** 'TS29122_CommonData.yaml#/components/responses/406'
- '429':
 - Reference:** 'TS29122_CommonData.yaml#/components/responses/429'
- '500':
 - Reference:** 'TS29122_CommonData.yaml#/components/responses/500'
- '503':
 - Reference:** 'TS29122_CommonData.yaml#/components/responses/503'
- Default:**
 - Reference:** 'TS29122_CommonData.yaml#/components/responses/default'

Method: Post

Summary: Creates a new subscription resource

Tags:

- TrafficInfluence API Subscription level POST Operation

Request Body:

Description: Request to create a new subscription resource

Required/Optional: true

Content:

Application/JSON:

Schema:

Reference: '#/components/schemas/TrafficInfluSub'

Callbacks:

notificationDestination:

'{request.body#/notificationDestination}':

Method: Post

Request Body: # contents of the callback message

Required/Optional: true

Content:

Application/JSON:

Schema:

Reference: '#/components/schemas/EventNotification'

Responses:

'204':

Description: No Content (successful notification)

'400':

Reference: 'TS29122_CommonData.yaml#/components/responses/400'

'401':

Reference: 'TS29122_CommonData.yaml#/components/responses/401'

'403':

Reference: 'TS29122_CommonData.yaml#/components/responses/403'

'404':

Reference: 'TS29122_CommonData.yaml#/components/responses/404'

'411':

Reference: 'TS29122_CommonData.yaml#/components/responses/411'

'413':

Reference: 'TS29122_CommonData.yaml#/components/responses/413'

'415':

Reference: 'TS29122_CommonData.yaml#/components/responses/415'

'429':

Reference: 'TS29122_CommonData.yaml#/components/responses/429'

'500':

Reference: 'TS29122_CommonData.yaml#/components/responses/500'

'503':

Reference: 'TS29122_CommonData.yaml#/components/responses/503'

Default:

Reference: 'TS29122_CommonData.yaml#/components/responses/default'

Responses:

'201':

Description: Created (Successful creation of subscription)

Content:

Application/JSON:

Schema:

Reference: '#/components/schemas/TrafficInfluSub'

```

Headers:
  Location:
    Description: 'Contains the URI of the newly created resource'
    Required/Optional: true
    Schema:
      Type: string
'400':
  Reference: 'TS29122_CommonData.yaml#/components/responses/400'
'401':
  Reference: 'TS29122_CommonData.yaml#/components/responses/401'
'403':
  Reference: 'TS29122_CommonData.yaml#/components/responses/403'
'404':
  Reference: 'TS29122_CommonData.yaml#/components/responses/404'
'411':
  Reference: 'TS29122_CommonData.yaml#/components/responses/411'
'413':
  Reference: 'TS29122_CommonData.yaml#/components/responses/413'
'415':
  Reference: 'TS29122_CommonData.yaml#/components/responses/415'
'429':
  Reference: 'TS29122_CommonData.yaml#/components/responses/429'
'500':
  Reference: 'TS29122_CommonData.yaml#/components/responses/500'
'503':
  Reference: 'TS29122_CommonData.yaml#/components/responses/503'
Default:
  Reference: 'TS29122_CommonData.yaml#/components/responses/default'

```

/{afId}/subscriptions/{subscriptionId}

```

Parameters:
- Name: afId
  In: path
  Description: Identifier of the AF
  Required/Optional: true
  Schema:
    Type: string
- Name: subscriptionId
  In: path
  Description: Identifier of the subscription resource
  Required/Optional: true
  Schema:
    Type: string
get:
  Summary: read an active subscriptions for the SCS/AS and the subscription Id
Tags:
  - TrafficInfluence API Subscription level GET Operation

```

Responses:

- '200':
 - Description:** OK (Successful get the active subscription)
 - Content:**
 - Application/JSON:**
 - Schema:**
 - Reference:** '#/components/schemas/TrafficInfluSub'
- '400':
 - Reference:** 'TS29122_CommonData.yaml#/components/responses/400'
- '401':
 - Reference:** 'TS29122_CommonData.yaml#/components/responses/401'
- '403':
 - Reference:** 'TS29122_CommonData.yaml#/components/responses/403'
- '404':
 - Reference:** 'TS29122_CommonData.yaml#/components/responses/404'
- '406':
 - Reference:** 'TS29122_CommonData.yaml#/components/responses/406'
- '429':
 - Reference:** 'TS29122_CommonData.yaml#/components/responses/429'
- '500':
 - Reference:** 'TS29122_CommonData.yaml#/components/responses/500'
- '503':
 - Reference:** 'TS29122_CommonData.yaml#/components/responses/503'

Default:

- Reference:** 'TS29122_CommonData.yaml#/components/responses/default'

put:

Summary: Updates/replaces an existing subscription resource

Tags:

- TrafficInfluence API subscription level PUT Operation

Request Body:

Description: Parameters to update/replace the existing subscription

Required/Optional: true

Content:

- Application/JSON:**
 - Schema:**
 - Reference:** '#/components/schemas/TrafficInfluSub'

Responses:

- '200':
 - Description:** OK (Successful update of the subscription)
 - Content:**
 - Application/JSON:**
 - Schema:**
 - Reference:** '#/components/schemas/TrafficInfluSub'
- '400':
 - Reference:** 'TS29122_CommonData.yaml#/components/responses/400'
- '401':
 - Reference:** 'TS29122_CommonData.yaml#/components/responses/401'
- '403':
 - Reference:** 'TS29122_CommonData.yaml#/components/responses/403'
- '404':
 - Reference:** 'TS29122_CommonData.yaml#/components/responses/403'

Reference: 'TS29122_CommonData.yaml#/components/responses/404'
'411':
Reference: 'TS29122_CommonData.yaml#/components/responses/411'
'413':
Reference: 'TS29122_CommonData.yaml#/components/responses/413'
'415':
Reference: 'TS29122_CommonData.yaml#/components/responses/415'
'429':
Reference: 'TS29122_CommonData.yaml#/components/responses/429'
'500':
Reference: 'TS29122_CommonData.yaml#/components/responses/500'
'503':
Reference: 'TS29122_CommonData.yaml#/components/responses/503'
Default:
Reference: 'TS29122_CommonData.yaml#/components/responses/default'

patch:

Summary: Updates/replaces an existing subscription resource

Tags:

- TrafficInfluence API subscription level PATCH Operation

Request Body:

Required/Optional: true

Content:

application/merge-patch+json:

Schema:

Reference: '#/components/schemas/TrafficInfluSubPatch'

Responses:

'200':

Description: OK. The subscription was modified successfully.

Content:

Application/JSON:

Schema:

Reference: '#/components/schemas/TrafficInfluSub'

'400':

Reference: 'TS29122_CommonData.yaml#/components/responses/400'

'401':

Reference: 'TS29122_CommonData.yaml#/components/responses/401'

'403':

Reference: 'TS29122_CommonData.yaml#/components/responses/403'

'404':

Reference: 'TS29122_CommonData.yaml#/components/responses/404'

'411':

Reference: 'TS29122_CommonData.yaml#/components/responses/411'

'413':

Reference: 'TS29122_CommonData.yaml#/components/responses/413'

'415':

Reference: 'TS29122_CommonData.yaml#/components/responses/415'

'429':

Reference: 'TS29122_CommonData.yaml#/components/responses/429'

'500':

Reference: 'TS29122_CommonData.yaml#/components/responses/500'

```

    '503':
      Reference: 'TS29122_CommonData.yaml#/components/responses/503'
    Default:
      Reference: 'TS29122_CommonData.yaml#/components/responses/default'
  delete:
    Summary: Deletes an already existing subscription

    Tags:
      - TrafficInfluence API Subscription level DELETE Operation

    Responses:
      '204':
        Description: No Content (Successful deletion of the existing subscription)
      '400':
        Reference: 'TS29122_CommonData.yaml#/components/responses/400'
      '401':
        Reference: 'TS29122_CommonData.yaml#/components/responses/401'
      '403':
        Reference: 'TS29122_CommonData.yaml#/components/responses/403'
      '404':
        Reference: 'TS29122_CommonData.yaml#/components/responses/404'
      '429':
        Reference: 'TS29122_CommonData.yaml#/components/responses/429'
      '500':
        Reference: 'TS29122_CommonData.yaml#/components/responses/500'
      '503':
        Reference: 'TS29122_CommonData.yaml#/components/responses/503'
    Default:
      Reference: 'TS29122_CommonData.yaml#/components/responses/default'

```

Components

```

securitySchemes:
  oAuth2ClientCredentials:
    Type: oauth2
    Flows:
      clientCredentials:
        tokenUrl: '{tokenUrl}'
        scopes: {}

schemas:
  TrafficInfluSub:
    Type: object
    Properties:
      afServiceId:
        Type: string
        Description: Identifies a service on behalf of which the AF is issuing the request.
      afAppId:
        Type: string

```

Description: Identifies an application.

afTransId:
Type: string
Description: Identifies an NEF Northbound interface transaction, generated by the AF.

appReloInd:
Type: boolean
Description: Identifies whether an application can be relocated once a location of the application has been selected.

dnn:
Reference: 'TS29571_CommonData.yaml#/components/schemas/Dnn'

snssai:
Reference: 'TS29571_CommonData.yaml#/components/schemas/Snssai'

externalGroupId:
Reference: 'TS29122_CommonData.yaml#/components/schemas/ExternalGroupId'

anyUeInd:
Type: boolean
Description: Identifies whether the AF request applies to any UE. This attribute shall set to "true" if applicable for any UE, otherwise, set to "false".

subscribedEvents:
Type: array
Items:
Reference: '#/components/schemas/SubscribedEvent'
minItems: 1
Description: Identifies the requirement to be notified of the event(s).

gpsi:
Reference: 'TS29571_CommonData.yaml#/components/schemas/Gpsi'

ipv4Addr:
Reference: 'TS29122_CommonData.yaml#/components/schemas/Ipv4Addr'

ipv6Addr:
Reference: 'TS29122_CommonData.yaml#/components/schemas/Ipv6Addr'

macAddr:
Reference: 'TS29571_CommonData.yaml#/components/schemas/macAddr48'

dnaiChgType:
Reference: 'TS29571_CommonData.yaml#/components/schemas/DnaiChangeType'

notificationDestination:
Reference: 'TS29122_CommonData.yaml#/components/schemas/Link'

requestTestNotification:
Type: boolean
Description: Set to true by the SCS/AS to request the NEF to send a test notification as defined in subclause 5.2.5.3. Set to false or omitted otherwise.

websockNotifConfig:
Reference: 'TS29122_CommonData.yaml#/components/schemas/WebsockNotifConfig'

self:
Reference: 'TS29122_CommonData.yaml#/components/schemas/Link'

trafficFilters:
Type: array
Items:
Reference: 'TS29122_CommonData.yaml#/components/schemas/FlowInfo'
minItems: 1
Description: Identifies IP packet filters.

ethTrafficFilters:


```

    Type: array
    Items:
      Reference:
        'TS29514_Npcf_PolicyAuthorization.yaml#/components/schemas/EthFlowDescription'
      minItems: 1
      Description: Identifies Ethernet packet filters.
    trafficRoutes:
      Type: array
      Items:
        Reference: 'TS29571_CommonData.yaml#/components/schemas/RouteToLocation'
        minItems: 1
        Description: Identifies the N6 traffic routing requirement.
    tempValidities:
      Type: array
      Items:
        Reference:
          'TS29514_Npcf_PolicyAuthorization.yaml#/components/schemas/TemporalValidity'
        validGeoZoneIds:
          Type: array
          Items:
            Type: string
            minItems: 1
            Description: Identifies a geographic zone that the AF request applies only to
            the traffic of UE(s) located in this specific zone.
          suppFeat:
            Reference: 'TS29571_CommonData.yaml#/components/schemas/SupportedFeatures'
        allOf:
          - oneOf:
            - required: [afAppId]
            - required: [trafficFilters]
            - required: [ethTrafficFilters]
          - oneOf:
            - required: [ipv4Addr]
            - required: [ipv6Addr]
            - required: [macAddr]
            - required: [gpsi]
            - required: [externalGroupId]
            - required: [anyUeInd]
        anyOf:
          - not:
            Required: [subscribedEvents]
          - required: [notificationDestination]
    TrafficInfluSubPatch:
      Type: object
      Properties:
        appReloInd:
          Type: boolean
          Description: Identifies whether an application can be relocated once a location
          of the application has been selected.
          nullable: true
        trafficFilters:
          Type: array
          Items:
            Reference: 'TS29122_CommonData.yaml#/components/schemas/FlowInfo'
            minItems: 1

```

Description: Identifies IP packet filters.

ethTrafficFilters:

- Type:** array
- Items:**
 - Reference:**
'TS29514_Npcf_PolicyAuthorization.yaml#/components/schemas/EthFlowDescription'
 - minItems:** 1
 - Description:** Identifies Ethernet packet filters.

trafficRoutes:

- Type:** array
- Items:**
 - Reference:** 'TS29571_CommonData.yaml#/components/schemas/RouteToLocation'
 - minItems:** 1
 - Description:** Identifies the N6 traffic routing requirement.

tempValidities:

- Type:** array
- Items:**
 - Reference:**
'TS29514_Npcf_PolicyAuthorization.yaml#/components/schemas/TemporalValidity'
 - minItems:** 1
 - nullable:** true

validGeoZoneIds:

- Type:** array
- Items:**
 - Type:** string
 - minItems:** 1
 - Description:** Identifies a geographic zone that the AF request applies only to the traffic of UE(s) located in this specific zone.
 - nullable:** true

EventNotification:

- Type:** object
- Properties:**
 - afTransId:**
 - Type:** string
 - Description:** Identifies an NEF Northbound interface transaction, generated by the AF.

dnaiChgType:

- Reference:** 'TS29571_CommonData.yaml#/components/schemas/DnaiChangeType'

sourceTrafficRoute:

- Reference:** 'TS29571_CommonData.yaml#/components/schemas/RouteToLocation'

subscribedEvent:

- Reference:** '#/components/schemas/SubscribedEvent'

targetTrafficRoute:

- Reference:** 'TS29571_CommonData.yaml#/components/schemas/RouteToLoaction'

gpsi:

- Reference:** 'TS29571_CommonData.yaml#/components/schemas/Gpsi'

srcUeIpv4Addr:

- Reference:** 'TS29122_CommonData.yaml#/components/schemas/Ipv4Addr'

srcUeIpv6Prefix:

- Reference:** 'TS29571_CommonData.yaml#/components/schemas/Ipv6Prefix'

tgtUeIpv4Addr:

- Reference:** 'TS29122_CommonData.yaml#/components/schemas/Ipv4Addr'

tgtUeIpv6Prefix:

Reference: 'TS29571_CommonData.yaml#/components/schemas/Ipv6Prefix'

ueMac:

Reference: 'TS29571_CommonData.yaml#/components/schemas/MacAddr48'

Required:

- dnaiChgType
- subscribedEvent

SubscribedEvent:**anyOf:**

- type: string

enum:

- UP_PATH_CHANGE
- type: string

Description:

Possible values are

- CHANGE_OF_DNAI: The AF requests to be notified when the UP path changes for the PDU session.

