



# 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/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'

**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.

