



DeviceTriggering

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OpenAPI

OpenAPI Version: 3.0.0

info

Title: 3gpp-device-triggering

Version: "1.0.0"

externalDocs

Description: 3GPP TS 29.122 V15.2.0 T8 reference point for Northbound APIs

URL: 'http://www.3gpp.org/ftp/Specs/archive/29_series/29.122/'

security

- {}

- oAuth2ClientCredentials: []

servers

URL: '{apiRoot}/3gpp-device-triggering/v1'

Variables:

API Root:

Default: https://example.com

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

paths

{scsAsId}/transactions

get:

Summary: read all active device triggering transactions for a given SCS/AS.

Tags:

- Device Triggering API SCS/AS level GET Operation

Parameters:

- name: scsAsId

In: path

Description: Identifier of the SCS/AS

Required/Optional: true

Schema:

Reference: 'TS29122_CommonData.yaml#/components/schemas/ScsAsId'

Responses:

'200' OK (Successful get all of the active device triggering transactions for the SCS/AS)

Content:

Application/JSON:

Schema:

Type: array

items:

Reference: '#/components/schemas/DeviceTriggering'

'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: Create a long-term transaction for a device triggering.

Tags:

- DeviceTriggering API Transaction level POST Operation

Parameters:

- name: scsAsId

In: path

Description: Identifier of the SCS/AS

Required/Optional: true

Schema:

Reference: 'TS29122_CommonData.yaml#/components/schemas/ScsAsId'

Request Body:

Description: Parameters to request a device triggering delivery.

Required/Optional: true

Content:

Application/JSON:

Schema:

Reference: '#/components/schemas/DeviceTriggering'

Callbacks:

notificationDestination:

'{request.body#/notificationDestination}':

Method: Post

Request Body: # contents of the callback message

Required/Optional: true

Content:

Application/JSON:

Schema:

Reference: '#/components/schemas/DeviceTriggeringDeliveryReportNotification'

Responses:**'200'** OK (successful notification)**Content:****Application/JSON:****Schema:****Reference:** 'TS29122_CommonData.yaml#/components/schemas/Acknowledgement'**'204'** 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'** Created (Successful creation of subscription)**Content:****Application/JSON:****Schema:****Reference:** '#/components/schemas/DeviceTriggering'**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'

/{scsAsId}/transactions/{transactionId}

get:

Summary: Read a device triggering transaction resource.

Tags:

- DeviceTriggering API Transaction level GET Operation

Parameters:

- name: scsAsId

In: path

Description: Identifier of the SCS/AS

Required/Optional: true

Schema:

Reference: 'TS29122_CommonData.yaml#/components/schemas/ScsAsId'

- name: transactionId

In: path

Description: Identifier of the transaction resource

Required/Optional: true

Schema:

Type: string

Responses:

'200' OK (Successful get the active subscription)

Content:

Application/JSON:

Schema:

Reference: '#/components/schemas/DeviceTriggering'

'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: Replace an existing device triggering transaction resource and the corresponding device trigger request.

Tags:

- DeviceTriggering API transaction level PUT Operation

Parameters:

- name: scsAsId

In: path

Description: Identifier of the SCS/AS

Required/Optional: true

Schema:

Reference: 'TS29122_CommonData.yaml#/components/schemas/ScsAsId'

- name: transactionId

In: path

Description: Identifier of the transaction resource

Required/Optional: true

Schema:

Type: string

Request Body:

Description: Parameters to update/replace the existing device triggering

Required/Optional: true

Content:

Application/JSON:

Schema:

Reference: '#/components/schemas/DeviceTriggering'

Responses:

'200' OK (Successful update of the device triggering)

Content:

Application/JSON:**Schema:****Reference:** '#/components/schemas/DeviceTriggering'

'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 device triggering transaction.**Tags:**

- DeviceTriggering API Transaction level DELETE Operation

Parameters:

- name: scsAsId

In: path**Description:** Identifier of the SCS/AS**Required/Optional:** true**Schema:****Reference:** 'TS29122_CommonData.yaml#/components/schemas/ScsAsId'

- name: transactionId

In: path**Description:** Identifier of the transaction resource**Required/Optional:** true**Schema:****Type:** string**Responses:**

'204' No Content (Successful deletion of the existing subscription)

'200' OK (Successful deletion of the existing subscription)

Content:

Application/JSON:

Schema:

Reference: '#/components/schemas/DeviceTriggering'

'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

DeviceTriggering

Type: object

Properties:

self:

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

externalId:

Reference: 'TS29122_CommonData.yaml#/components/schemas/ExternalId'

msisdn:

Reference: 'TS29122_CommonData.yaml#/components/schemas/Msisdn'

supportedFeatures:

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

validityPeriod:

Reference: 'TS29122_CommonData.yaml#/components/schemas/DurationSec'

priority:

Reference: '#/components/schemas/Priority'

applicationPortId:

Reference: 'TS29122_CommonData.yaml#/components/schemas/Port'

triggerPayload:

Reference: 'TS29122_CommonData.yaml#/components/schemas/Bytes'

notificationDestination:

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

requestTestNotification:

Type: boolean

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

websocketNotifConfig:

Reference: 'TS29122_CommonData.yaml#/components/schemas/WebsocketNotifConfig'

deliveryResult:

Reference: '#/components/schemas/DeliveryResult'

Required:

- validityPeriod
- priority
- applicationPortId
- triggerPayload
- notificationDestination

oneOf:

- required: [externalId]
- required: [msisdn]

DeviceTriggeringDeliveryReportNotification

Type: object

Properties:

transaction:

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

result:

Reference: '#/components/schemas/DeliveryResult'

Required:

- transaction
- result

DeliveryResult

anyOf: type: string

This string provides forward-compatibility with future extensions to the enumeration but is not used to encode content defined in the present version of this API.

Possible values are:

- SUCCESS: This value indicates that the device action request was successfully completed.
- UNKNOWN: This value indicates any unspecified errors.
- FAILURE: This value indicates that this trigger encountered a delivery error and is deemed permanently undeliverable.
- TRIGGERED: This value indicates that device triggering request is accepted by the SCEF.
- EXPIRED: This value indicates that the validity period expired before the trigger could be delivered.
- UNCONFIRMED: This value indicates that the delivery of the device action request is not confirmed.
- REPLACED: This value indicates that the device triggering replacement request is accepted by the SCEF.
- TERMINATE: This value indicates that the delivery of the device action request is terminated by the SCS/AS.

readOnly: true

Priority

anyOf: type: string

This string provides forward-compatibility with future extensions to the enumeration but is not used to encode content defined in the present version of this API.

Possible values are:

- NO_PRIORITY: This value indicates that the device trigger has no priority.
- PRIORITY: This value indicates that the device trigger has priority.