



CpProvisioning

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OpenAPI

OpenAPI Version: 3.0.0

Info

Title: 3gpp-cp-parameter-provisioning
Version: "1.0.0"

Servers

URL: '{apiRoot}/3gpp-cp-parameter-provisioning/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

`{scsAsId}/subscriptions`

get:

Parameters:

- **Name:** `scsAsId`

In: `path`

Description: Identifier of the SCS/AS as defined in subclause subclause 5.2.4 of 3GPP TS 29.122.

Required/Optional: `true`

Schema:

Type: `string`

Responses:

'200':

Description: OK. The subscription information related to the request URI is returned.

Content:

Application/JSON:

Schema:

Type: `array`

Items:

Reference: `'#/components/schemas/CpInfo'`

Min Items: `0`

'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`

Parameters:

- **Name:** `scsAsId`

In: `path`

Description: Identifier of the SCS/AS as defined in subclause subclause 5.2.4 of 3GPP TS 29.122.

Required/Optional: true

Schema:

Type: string

Request Body:

Description: create new subscriptions for a given SCS/AS and the provisioning CP parameter sets.

Required/Optional: true

Content:

Application/JSON:

Schema:

Reference: '#/components/schemas/CpInfo'

Responses:

'201':

Description: Created. The subscription was created successfully. The SCEF shall return the created subscription in the response payload body.

Content:

Application/JSON:

Schema:

Reference: '#/components/schemas/CpInfo'

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':

Description: The CP parameters for all sets were not created successfully. CpReport may be included with detailed information.

Content:

Application/JSON:

Schema:

Type: array

Items:

/{scsAsId}/subscriptions/{subscriptionId}

```

    Reference: '#/components/schemas/CpReport'
    Min Items: 1
  application/problem+json:
    Schema:
      Reference: 'TS29122_CommonData.yaml#/components/schemas/ProblemDetails'
  '503':
    Reference: 'TS29122_CommonData.yaml#/components/responses/503'
  Default:
    Reference: 'TS29122_CommonData.yaml#/components/responses/default'

```

/{scsAsId}/subscriptions/{subscriptionId}

get:

Parameters:

```

- Name: scsAsId
  In: path
  Description: Identifier of the SCS/AS as defined in subclause subclause 5.2.4 of
  3GPP TS 29.122.
  Required/Optional: true
  Schema:
    Type: string
- Name: subscriptionId
  In: path
  Description: Subscription ID
  Required/Optional: true
  Schema:
    Type: string

```

Responses:

```

'200':
  Description: OK. The subscription information related to the request URI is
  returned.
  Content:
    Application/JSON:
      Schema:
        Reference: '#/components/schemas/CpInfo'
'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:
  Request Body:
    Description: Modify a CP parameter provisioning subscription resource.
    Required/Optional: true
    Content:
      Application/JSON:
        Schema:
          Reference: '#/components/schemas/CpInfo'

  Parameters:
    - Name: scsAsId
      In: path
      Description: Identifier of the SCS/AS as defined in subclause subclause 5.2.4 of
3GPP TS 29.122.
      Required/Optional: true
      Schema:
        Type: string
    - Name: subscriptionId
      In: path
      Description: Subscription ID
      Required/Optional: true
      Schema:
        Type: string

  Responses:
    '200':
      Description: OK. The subscription was modified successfully. The SCEF shall return
an updated subscription in the response payload body.
      Content:
        Application/JSON:
          Schema:
            Reference: '#/components/schemas/CpInfo'
    '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':

Description: The CP parameters for all sets were not updated successfully. CpReport may be included with detailed information.

Content:

Application/JSON:

Schema:

Type: array

Items:

Reference: '#/components/schemas/CpReport'

Min Items: 1

application/problem+json:

Schema:

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

'503':

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

Default:

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

delete:

Parameters:

- **Name:** scsAsId

In: path

Description: Identifier of the SCS/AS as defined in subclause subclause 5.2.4 of 3GPP TS 29.122.

Required/Optional: true

Schema:

Type: string

- **Name:** subscriptionId

In: path

Description: Subscription ID

Required/Optional: true

Schema:

Type: string

Responses:

'204':

Description: No Content. The subscription was deleted successfully. The payload body shall be empty.

'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'

/{scsAsId}/subscriptions/{subscriptionId}/cpSets/{setId}

get:**Parameters:**

- **Name:** scsAsId

In: path

Description: Identifier of the SCS/AS as defined in subclause subclause 5.2.4 of 3GPP TS 29.122.

Required/Optional: true

Schema:

Type: string

- **Name:** subscriptionId

In: path

Description: Subscription ID

Required/Optional: true

Schema:

Type: string

- **Name:** setId

In: path

Description: Identifier of the CP parameter set

Required/Optional: true

Schema:

Type: string

Responses:

'200':

Description: OK. The subscription information related to the request URI is returned.

Content:**Application/JSON:****Schema:**

Reference: '#/components/schemas/CpParameterSet'

'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:

Request Body:

Description: Change information for a CP parameter set.

Required/Optional: true

Content:

Application/JSON:

Schema:

Reference: '#/components/schemas/CpParameterSet'

Parameters:

- **Name:** scsAsId

In: path

Description: Identifier of the SCS/AS as defined in subclause subclause 5.2.4 of 3GPP TS 29.122.

Required/Optional: true

Schema:

Type: string

- **Name:** subscriptionId

In: path

Description: Subscription ID

Required/Optional: true

Schema:

Type: string

- **Name:** setId

In: path

Description: Identifier of the CP parameter set

Required/Optional: true

Schema:

Type: string

Responses:

'200':

Description: OK. The CP parameter set resource was modified successfully. The SCEF shall return an updated CP parameter set resource in the response payload body.

Content:

Application/JSON:

Schema:

Reference: '#/components/schemas/CpParameterSet'

'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'

'409':

Description: The CP parameters for the CP set were not updated successfully.

Content:


```

    Application/JSON:
      Schema:
        Reference: '#/components/schemas/CpReport'
    application/problem+json:
      Schema:
        Reference: 'TS29122_CommonData.yaml#/components/schemas/ProblemDetails'
  '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':
    Description: The CP parameters for the CP set were not updated successfully.
    Content:
      Application/JSON:
        Schema:
          Reference: '#/components/schemas/CpReport'
      application/problem+json:
        Schema:
          Reference: 'TS29122_CommonData.yaml#/components/schemas/ProblemDetails'
  '503':
    Reference: 'TS29122_CommonData.yaml#/components/responses/503'
  Default:
    Reference: 'TS29122_CommonData.yaml#/components/responses/default'
delete:

Parameters:
- Name: scsAsId
  In: path
  Description: Identifier of the SCS/AS as defined in subclause subclause 5.2.4 of
3GPP TS 29.122.
  Required/Optional: true
  Schema:
    Type: string
- Name: subscriptionId
  In: path
  Description: Subscription ID
  Required/Optional: true
  Schema:
    Type: string
- Name: setId
  In: path
  Description: Identifier of the CP parameter set
  Required/Optional: true
  Schema:
    Type: string

Responses:
  '204':

```

Description: No Content. The subscription was deleted successfully. The payload body shall be empty.

```
'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:
  CpInfo:
    Type: object
    Properties:
      self:
        Reference: 'TS29122_CommonData.yaml#/components/schemas/Link'
      supportedFeatures:
        Reference: 'TS29571_CommonData.yaml#/components/schemas/SupportedFeatures'
      externalId:
        Reference: 'TS29122_CommonData.yaml#/components/schemas/ExternalId'
      msisdn:
        Reference: 'TS29122_CommonData.yaml#/components/schemas/Msisdn'
      externalGroupId:
        Reference: 'TS29122_CommonData.yaml#/components/schemas/ExternalGroupId'
    cpParameterSets:
      Type: object
      additionalProperties:
        Reference: '#/components/schemas/CpParameterSet'
      minProperties: 1
      Description: Identifies a set of CP parameter information that may be part of
      this CpInfo structure.
```

```

cpReports:
  Type: object
  additionalProperties:
    Reference: '#/components/schemas/CpReport'
  minProperties: 1
  Description: Supplied by the SCEF and contains the CP set identifiers for which
  CP parameter(s) are not added or modified successfully. The failure reason is also included.
  Each element provides the related information for one or more CP set identifier(s) and is
  identified in the map via the failure identifier as key.
  readOnly: true
  Required:
    - cpParameterSets
  oneOf:
    - required: [externalId]
    - required: [msisdn]
    - required: [externalGroupId]
CpParameterSet:
  Type: object
  Properties:
    setId:
      Type: string
      Description: SCS/AS-chosen correlator provided by the SCS/AS in the request to
      create a resource fo CP parameter set(s).
      self:
        Reference: 'TS29122_CommonData.yaml#/components/schemas/Link'
    validityTime:
      Reference: 'TS29122_CommonData.yaml#/components/schemas/DateTime'
    periodicCommunicationIndicator:
      Reference: '#/components/schemas/CommunicationIndicator'
    communicationDurationTime:
      Reference: 'TS29122_CommonData.yaml#/components/schemas/DurationSec'
    periodicTime:
      Reference: 'TS29122_CommonData.yaml#/components/schemas/DurationSec'
    scheduledCommunicationTime:
      Reference: '#/components/schemas/ScheduledCommunicationTime'
    stationaryIndication:
      Reference: '#/components/schemas/StationaryIndication'
    expectedUmts:
      Type: array
      Items:
        Reference: 'TS29122_CommonData.yaml#/components/schemas/LocationArea5G'
      minItems: 1
      Description: Identifies the UE's expected geographical movement. The attribute
      is only applicable in 5G.
      Required:
        - setId
    ScheduledCommunicationTime:
      Type: object
      Properties:
        daysOfWeek:
          Type: array
          Items:
            Reference: 'TS29122_CommonData.yaml#/components/schemas/DayOfWeek'

```

minItems: 1
maxItems: 6
Description: Identifies the day(s) of the week. If absent, it indicates every day of the week.

timeOfDayStart:
Reference: 'TS29122_CommonData.yaml#/components/schemas/TimeOfDay'

timeOfDayEnd:
Reference: 'TS29122_CommonData.yaml#/components/schemas/TimeOfDay'

CpReport:
Type: object
Properties:

setIds:
Type: array
Items:
Type: string
minItems: 1
Description: Identifies the CP set identifier(s) which CP parameter(s) are not added or modified successfully

failureCode:
Reference: '#/components/schemas/CpFailureCode'

Required:
 - failureCode

CommunicationIndicator:
anyOf:
 - type: string
enum:
 - PERIODICALLY
 - ON_DEMAND
 - type: string
Description:
 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.

Description:
 Possible values are
 - PERIODICALLY: Identifies the UE communicates periodically
 - ON_DEMAND: Identifies the UE communicates on demand

StationaryIndication:
anyOf:
 - type: string
enum:
 - STATIONARY
 - MOBILE
 - type: string
Description:
 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.

Description:
 Possible values are
 - STATIONARY: Identifies the UE is stationary
 - MOBILE: Identifies the UE is mobile

CpFailureCode:
anyOf:
 - type: string
enum:

- MALFUNCTION
 - SET_ID_DUPLICATED
 - OTHER_REASON
- type: string

Description:

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.

Description:

Possible values are

- MALFUNCTION: This value indicates that something functions wrongly in CP parameter provisioning or the CP parameter provisioning does not function at all.
- SET_ID_DUPLICATED: The received CP set identifier(s) are already provisioned.
- OTHER_REASON: Other reason unspecified.

