



# 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.

