



# ResourceManagementOfBdt

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## OpenAPI

OpenAPI Version: 3.0.0

## Info

**Title:** 3gpp-bdt  
**Version:** "1.0.0"

## Servers

**URL:** '{apiRoot}/3gpp-bdt/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**

**Parameters:**

- **Name:** scsAsId  
**Description:** String identifying the SCS/AS.  
**In:** path  
**Required/Optional:** true  
**Schema:**
  - Type:** string

**get:****Responses:**

- '200':
  - Description:** all BDT policy subscriptions.
  - Content:**
    - Application/JSON:**
      - Schema:**
        - Type:** array
        - Items:**
          - Reference:** '#/components/schemas/Bdt'
          - Min Items:** 0
          - Description:** individual BDT policy 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'
- '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**Request Body:**

- Description:** Contains the data to create a BDT subscription.
- Required/Optional:** true
- Content:**

```

Application/JSON:
  Schema:
    Reference: '#/components/schemas/Bdt'

Responses:
  '201':
    Description: Background data transfer policies offered to the SCS/AS.
    Content:
      Application/JSON:
        Schema:
          Reference: '#/components/schemas/Bdt'
      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'
  '409':
    Reference: 'TS29122_CommonData.yaml#/components/responses/409'
  '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}/subscriptions/{subscriptionId}

```

Parameters:
- Name: scsAsId
  Description: String identifying the SCS/AS.
  In: path
  Required/Optional: true

```

```

    Schema:
      Type: string
  - Name: subscriptionId
    Description: String identifying the individual BDT policy resource in the SCEF.
    In: path
    Required/Optional: true
    Schema:
      Type: string
get:
  Responses:
    '200':
      Description: Background data transfer policies offered to and selected by the
SCEF.
      Content:
        Application/JSON:
          Schema:
            Reference: '#/components/schemas/Bdt'
    '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'
patch:
  Request Body:
    Description: Contains information to be performed on the Bdt data structure to
select a transfer policy.
    Required/Optional: true
    Content:
      application/merge-patch+json:
        Schema:
          Reference: '#/components/schemas/BdtPatch'
  Responses:
    '200':
      Description: The Individual BDT Policy resource is modified with a selected policy
and a representation of that resource is returned.
      Content:
        Application/JSON:

```

**Schema:****Reference:** '#/components/schemas/Bdt'

'204':

**Description:** The Individual BDT Policy resource is modified with a selected policy.

'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:****Responses:**

'204':

**Description:** The Individual BDT Policy resource is deleted.

'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:
  Bdt:
    Type: object
    Properties:
      self:
        Reference: 'TS29122_CommonData.yaml#/components/schemas/Link'
      supportedFeatures:
        Reference: 'TS29571_CommonData.yaml#/components/schemas/SupportedFeatures'
      volumePerUE:
        Reference: 'TS29122_CommonData.yaml#/components/schemas/UsageThreshold'
      numberOfUEs:
        Type: integer
        Minimum: 1
        Description: Identifies the number of UEs.
      desiredTimeWindow:
        Reference: 'TS29122_CommonData.yaml#/components/schemas/TimeWindow'
      locationArea:
        Reference: 'TS29122_CommonData.yaml#/components/schemas/LocationArea'
      locationArea5G:
        Reference: 'TS29122_CommonData.yaml#/components/schemas/LocationArea5G'
      referenceId:
        Reference: 'TS29122_CommonData.yaml#/components/schemas/BdtReferenceId'
      transferPolicies:
        Type: array
        Items:
          Reference: '#/components/schemas/TransferPolicy'
        minItems: 1
        Description: Identifies an offered transfer policy.
        readOnly: true
      selectedPolicy:
        Type: integer
        Description: Identity of the selected background data transfer policy. Shall not
        be present in initial message exchange, can be provided by NF service consumer in a
        subsequent message exchange.
      Required:
        - volumePerUE
        - numberOfUEs
        - desiredTimeWindow
      BdtPatch:
        Type: object

```

**Properties:**  
**selectedPolicy:**  
**Type:** integer  
**Description:** Identity of the selected background data transfer policy.  
**Required:**  
- selectedPolicy

**TransferPolicy:**  
**Type:** object  
**Properties:**  
**bdtPolicyId:**  
**Type:** integer  
**Description:** Identifier for the transfer policy  
**maxUplinkBandwidth:**  
**Reference:** 'TS29122\_CommonData.yaml#/components/schemas/Bandwidth'  
**maxDownlinkBandwidth:**  
**Reference:** 'TS29122\_CommonData.yaml#/components/schemas/Bandwidth'  
**ratingGroup:**  
**Type:** integer  
**Minimum:** 0  
**Description:** Indicates the rating group during the time window.  
**timeWindow:**  
**Reference:** 'TS29122\_CommonData.yaml#/components/schemas/TimeWindow'

**Required:**  
- bdtPolicyId  
- ratingGroup  
- timeWindow

