



Nchf SpendingLimitContro

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OpenAPI

OpenAPI Version: 3.0.0

Info

Description: Spending Limit Control Service API

Version: "1.0.0"

Title: Nchf_SpendingLimitControl

Servers

URL: 'http://{apiRoot}/nchf-spendinglimitcontrol/v1'

Variables:

API Root:

Default: https://example.com

Description: apiRoot as defined in subclause subclause 4.4 of 3GPP TS 29.501

Security

- {}

```
- oAuth2ClientCredentials:
  - nchf-spendinglimitcontrol
```

Paths

/subscriptions

```
Method: Post
Request Body:
  Required/Optional: true
  Content:
    Application/JSON:
      Schema:
        Reference: '#/components/schemas/SpendingLimitContext'

Responses:
  '201':
    Description: Success
    Content:
      Application/JSON:
        Schema:
          Reference: '#/components/schemas/SpendingLimitStatus'
    Headers:
      Location:
        description: 'Contains the URI of the created individual spending
limit resource, according to the structure:
{apiRoot}/nchf-spendinglimitcontrol/v1/subscriptions/{subscriptionId}'
      Required/Optional: true
      Schema:
        Type: string
  '400':
    Reference: './TS29571_CommonData.yaml#/components/responses/400'
  '401':
    Reference: './TS29571_CommonData.yaml#/components/responses/401'
  '403':
    Reference: './TS29571_CommonData.yaml#/components/responses/403'
  '404':
    Reference: './TS29571_CommonData.yaml#/components/responses/404'
  '411':
    Reference: './TS29571_CommonData.yaml#/components/responses/411'
  '413':
    Reference: './TS29571_CommonData.yaml#/components/responses/413'
  '415':
    Reference: './TS29571_CommonData.yaml#/components/responses/415'
  '429':
    Reference: './TS29571_CommonData.yaml#/components/responses/429'
  '500':
    Reference: './TS29571_CommonData.yaml#/components/responses/500'
  '503':
```

```
Reference: './TS29571_CommonData.yaml#/components/responses/503'
Default:
Reference: './TS29571_CommonData.yaml#/components/responses/default'
Callbacks:
statusNotification:
'{$request.body#/notifUri}/notify':
Method: Post
Request Body:
Required/Optional: true
Content:
Application/JSON:
Schema:
Reference: '#/components/schemas/SpendingLimitStatus'

Responses:
'204':
Description: No Content, Notification was succesfull
'400':
Reference: './TS29571_CommonData.yaml#/components/responses/400'
'401':
Reference: './TS29571_CommonData.yaml#/components/responses/401'
'403':
Reference: './TS29571_CommonData.yaml#/components/responses/403'
'404':
Reference: './TS29571_CommonData.yaml#/components/responses/404'
'411':
Reference: './TS29571_CommonData.yaml#/components/responses/411'
'413':
Reference: './TS29571_CommonData.yaml#/components/responses/413'
'415':
Reference: './TS29571_CommonData.yaml#/components/responses/415'
'429':
Reference: './TS29571_CommonData.yaml#/components/responses/429'
'500':
Reference: './TS29571_CommonData.yaml#/components/responses/500'
'503':
Reference: './TS29571_CommonData.yaml#/components/responses/503'
Default:
Reference: './TS29571_CommonData.yaml#/components/responses/default'
subscriptionTermination:
'{$request.body#/notifUri}/terminate':
Method: Post
Request Body:
Required/Optional: true
Content:
Application/JSON:
Schema:
Reference: '#/components/schemas/SubscriptionTerminationInfo'

Responses:
'204':
Description: No Content, Notification was succesfull
```

```

'400':
  Reference: './TS29571_CommonData.yaml#/components/responses/400'
'401':
  Reference: './TS29571_CommonData.yaml#/components/responses/401'
'403':
  Reference: './TS29571_CommonData.yaml#/components/responses/403'
'404':
  Reference: './TS29571_CommonData.yaml#/components/responses/404'
'411':
  Reference: './TS29571_CommonData.yaml#/components/responses/411'
'413':
  Reference: './TS29571_CommonData.yaml#/components/responses/413'
'415':
  Reference: './TS29571_CommonData.yaml#/components/responses/415'
'429':
  Reference: './TS29571_CommonData.yaml#/components/responses/429'
'500':
  Reference: './TS29571_CommonData.yaml#/components/responses/500'
'503':
  Reference: './TS29571_CommonData.yaml#/components/responses/503'
Default:
  Reference: './TS29571_CommonData.yaml#/components/responses/default'

```

/subscriptions/{subscriptionId}

Parameters:

```

- in: path
  name: subscriptionId
  Description: Identifies an individual spending limit retrieval subscription.
  Required/Optional: true
  Schema:
    Type: string

```

put:

```

Request Body:
  Required/Optional: true
  Content:
    Application/JSON:
      Schema:
        Reference: '#/components/schemas/SpendingLimitContext'

```

Responses:

```

'200':
  Description: OK. Resource was succesfully modified and representation is returned

  Content:
    Application/JSON:
      Schema:
        Reference: '#/components/schemas/SpendingLimitStatus'
'400':
  Reference: './TS29571_CommonData.yaml#/components/responses/400'

```

```

'401':
  Reference: './TS29571_CommonData.yaml#/components/responses/401'
'403':
  Reference: './TS29571_CommonData.yaml#/components/responses/403'
'404':
  Reference: './TS29571_CommonData.yaml#/components/responses/404'
'411':
  Reference: './TS29571_CommonData.yaml#/components/responses/411'
'413':
  Reference: './TS29571_CommonData.yaml#/components/responses/413'
'415':
  Reference: './TS29571_CommonData.yaml#/components/responses/415'
'429':
  Reference: './TS29571_CommonData.yaml#/components/responses/429'
'500':
  Reference: './TS29571_CommonData.yaml#/components/responses/500'
'503':
  Reference: './TS29571_CommonData.yaml#/components/responses/503'
Default:
  Reference: './TS29571_CommonData.yaml#/components/responses/default'
delete:

```

Responses:

```

'204':
  Description: No Content. Resource was succesfully deleted
'400':
  Reference: './TS29571_CommonData.yaml#/components/responses/400'
'401':
  Reference: './TS29571_CommonData.yaml#/components/responses/401'
'403':
  Reference: './TS29571_CommonData.yaml#/components/responses/403'
'404':
  Reference: './TS29571_CommonData.yaml#/components/responses/404'
'429':
  Reference: './TS29571_CommonData.yaml#/components/responses/429'
'500':
  Reference: './TS29571_CommonData.yaml#/components/responses/500'
'503':
  Reference: './TS29571_CommonData.yaml#/components/responses/503'
Default:
  Reference: './TS29571_CommonData.yaml#/components/responses/default'

```

Components

```

securitySchemes:
  oAuth2ClientCredentials:
    Type: oauth2
    Flows:
      clientCredentials:

```

```

tokenUrl: '{nrfApiRoot}/oauth2/token'
scopes:
  nchf-spendinglimitcontrol: Access to the Nchf_SpendingLimitControl API

```

schemas:

SpendingLimitContext:

Type: object

Properties:

supi:

Description: The Subscription Permanent Identifier (Supi) shall be present within the initial spending limit retrieval procedure (creation of a new individual subscription).

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

gpsi:

Description: The Generic Public Subscription Identifier (Gpsi) may be present within the initial spending limit retrieval procedure (creation of a new individual subscription).

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

policyCounterIds:

Type: array

Items:

Reference: '#/components/schemas/PolicyCounterId'

minItems: 1

Description: This is a list of policy counter identifier(s), which identifies policy counters maintained per subscriber within the CHF.

notifUri:

Description: This attribute identifies the recipient of spending limit notifications sent to the NF service consumer by the CHF. The notifUri shall be present within the initial spending limit retrieval procedure (creation of a new individual subscription). It may be present within the intermediate spending limit retrieval procedure (modification of an existing subscription).

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

supportedFeatures:

Description: The list of supported features as described in subclause 5.8 shall be supplied by the NF service consumer in the POST request that request the creation of a spending limit report resource.

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

SpendingLimitStatus:

Type: object

Properties:

supi:

Description: The Subscription Permanent Identifier (Supi) shall be present within the callback notify service operation (notification of the status of subscribed policy counters).

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

statusInfos:

Type: object

additionalProperties:

Reference: '#/components/schemas/PolicyCounterInfo'

minProperties: 1

Description: Status of the requested policy counters. The key of the map is the attribute "policyCounterId".

supportedFeatures:

Description: If the supportedFeatures is included in the request by the NF service consumer, it shall be supplied in the reply of the corresponding request by the CHF.

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

Required:

- statusInfos

PolicyCounterInfo:

Type: object

Properties:

policyCounterId:

Reference: '#/components/schemas/PolicyCounterId'

currentStatus:

Type: string

Description: Identifies the policy counter status applicable for a specific policy counter identified by the policyCounterId. The values (e.g. valid, invalid or any other status) are not specified. The interpretation and actions related to the defined values are out of scope of 3GPP.

penPolCounterStatuses:

Type: array

Items:

Reference: '#/components/schemas/PendingPolicyCounterStatus'

minItems: 1

Description: Provides the pending policy counter status.

Required:

- policyCounterId
- currentStatus

PendingPolicyCounterStatus:

Type: object

Properties:

policyCounterStatus:

Type: string

Description: Identifies the policy counter status applicable for a specific policy counter identified by the policyCounterId. The values (e.g. valid, invalid or any other status) are not specified. The interpretation and actions related to the defined values are out of scope of 3GPP.

activationTime:

Description: Indicates the activation times per required policy counter.

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

Required:

- policyCounterStatus
- activationTime

PolicyCounterId:

Type: string

Description: Identifies a policy counter.

SubscriptionTerminationInfo:

Type: object

Properties:

supi:

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

termCause:

Reference: '#/components/schemas/TerminationCause'

Required:

- supi

TerminationCause:

Type: string

enum:

- REMOVED_SUBSCRIBER

External Docs

Description: 3GPP TS 29.594 V15.2.0; 5G System; Spending Limit Control Service.

URL: 'http://www.3gpp.org/ftp/Specs/archive/29_series/29.594/'