**TSG-CT WG3 Meeting #112-e *C3-205571***

**E-Meeting, 4th – 13th November 2020 (Revision of C3-205xyz)**

|  |
| --- |
| *CR-Form-v12.1* |
| **CHANGE REQUEST** |
|  |
|  | **29.122** | **CR** | **0324** | **rev** | **-** | **Current version:** | **16.7.0** |  |
|  |
| *For* [***HE******LP***](http://www.3gpp.org/3G_Specs/CRs.htm#_blank)*on using this form: comprehensive instructions can be found at* [*http://www.3gpp.org/Change-Requests*](http://www.3gpp.org/Change-Requests)*.* |
|  |

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| ***Proposed change affects:*** | UICC apps |  | ME |  | Radio Access Network |  | Core Network | **X** |

|  |
| --- |
|  |
| ***Title:***  | Faliure authorization result of BDT reference Id for ChargeableParty API request |
|  |  |
| ***Source to WG:*** | Huawei, Havelsan |
| ***Source to TSG:*** | CT3 |
|  |  |
| ***Work item code:*** | TEI17, NAPS-CT, 5GS\_Ph1-CT |  | ***Date:*** | 2020-11-12 |
|  |  |  |  |  |
| ***Category:*** | **F** |  | ***Release:*** | Rel-17 |
|  | *Use one of the following categories:****F*** *(correction)****A*** *(mirror corresponding to a change in an earlier release)****B*** *(addition of feature),* ***C*** *(functional modification of feature)****D*** *(editorial modification)*Detailed explanations of the above categories canbe found in 3GPP [TR 21.900](http://www.3gpp.org/ftp/Specs/html-info/21900.htm). | *Use one of the following releases:Rel-8 (Release 8)Rel-9 (Release 9)Rel-10 (Release 10)Rel-11 (Release 11)…Rel-15 (Release 15)Rel-16 (Release 16)Rel-17 (Release 17)Rel-18 (Release 18)* |
|  |  |
| ***Reason for change:*** | In 4G, during the procedure of setting or changing the Chargeable Party for an AS session, a BDT reference Id may be provided by the SCS/AS in the ChargeableParty API request to activate the previously selected BDT policy.Upon receipt of the BDT reference Id from the SCEF, the PCRF needs to retrieve the selected BDT policy from the SPR, if the PCRF can’t retrieve the policy, or the time window of the received BDT policy has expired or not yet occurred, the PCRF shall respond to the SCEF with the reason why the selected BDT policy can’t be activated. Meanwhile, the PCF makes the policy decision without considering the selected BDT policy.But via the SCEF northbound interface, the 3rd party SCS/AS does not aware of the faliure authorization result of the provided BDT policy if received from the PCRF/SCEF. Hence, the SCS/AS still considers the requested BDT policy is authorized.5G has the same issue as described in the Additional discussion part. |
|  |  |
| ***Summary of change:*** | Add the failure authorization result of BDT reference Id for ChargeableParty API request. |
|  |  |
| ***Consequences if not approved:*** | The SCS/AS or the AF does not aware of the faliure authorization result of the provided BDT policy. |
|  |  |
| ***Clauses affected:*** | 4.4.4; 5.5.2.1.1; 5.5.2.1.2; A.5 |
|  |  |
|  | **Y** | **N** |  |  |
| ***Other specs*** |  | **X** |  Other core specifications  | TS/TR ... CR ...  |
| ***affected:*** |  | **X** |  Test specifications | TS/TR ... CR ...  |
| ***(show related CRs)*** |  | **X** |  O&M Specifications | TS/TR ... CR ...  |
|  |  |
| ***Other comments:*** | This CR introduces a backwards compatible correction to the OpenAPI file of ChargeableParty API. |
|  |  |
| ***This CR's revision history:*** |  |

**Additional discussion(if needed):**

For 5G, during the procedure of setting or changing the Chargeable Party for an AS session, a BDT reference Id may be provided by the AF in the ChargeableParty API request to activate the previously selected BDT policy.

Upon receipt of the BDT reference Id from the NEF, the PCF needs to retrieve the selected BDT policy from the UDR, if the PCF can’t retrieve the policy, or the time window of the received BDT policy has expired or not yet occurred, the PCF shall respond to the NEF with the reason why the selected BDT policy can’t be activated as described in Table 5.6.3.5-1 of TS 29.514. Meanwhile, the PCF makes the policy decision without considering the selected BDT policy.

Table 5.6.3.5-1: Enumeration ServAuthInfo

|  |  |  |
| --- | --- | --- |
| Enumeration value | Description | Applicability |
| TP\_NOT\_KNOWN | Indicates the transfer policy is not known. |  |
| TP\_EXPIRED | Indicates the transfer policy has expired. |  |
| TP\_NOT\_YET\_OCCURRED | Indicates the time window of the transfer policy has not yet occurred. |  |

But via the NEF northbound interface, the 3rd party AF does not aware of the faliure authorization result of the provided BDT policy if received from the PCF/NEF. Hence, the AF still considers the requested BDT policy is authorized.

**Proposed changes:**

\*\*\* 1st Change \*\*\*

### 4.4.4 Procedures for changing the chargeable party at session set up or during the session

This procedure is used by an SCS/AS to either request to sponsor the traffic from the beginning or to request becoming the chargeable party at a later point in time via the T8 interface.

When setting up the connection between the AS and UE via the SCEF, the SCS/AS shall send an HTTP POST request to the SCEF for the "Chargeable Party Transactions" resource requesting to become the chargeable party for the session to be set up. The body of the HTTP POST message shall include SCS/AS Identifier, UE IP address, IP Flow description, Sponsor ID, ASP ID, Sponsoring Status, notification destination URI identifying the recipient of notification within the "notificationDestination" attribute and may include time period and/or traffic volume used for sponsoring. The SCS/AS may also request to activate a previously selected policy of background data transfer by including Reference ID in the body of the HTTP POST message.

After receiving the HTTP POST message, if the authorization performed by the SCEF is successful, the SCEF shall act as an AF to interact with the PCRF via the Rx interface as defined in 3GPP TS 29.214 [10] or 3GPP TS 29.201 [13] to trigger a PCRF initiated IP-CAN Session Modification. The SCEF may map the SCS/AS Identifier to AF Application Identifier and may request to be notified about the traffic plane status. If the time period and/or traffic volume are received from the SCS/AS, the SCEF should subscribe to the PCRF on the USAGE\_REPORT event.

After receiving a successful response from the PCRF, the SCEF shall create a resource "Individual Chargeable Party Transaction", which represents the chargeable party transaction, addressed by a URI that contains the SCS/AS identity and an SCEF-created transaction identifier, and shall respond to the SCS/AS with a 201 Created message, including a Location header field containing the URI for the created resource. The SCS/AS shall use the URI received in the Location header in subsequent requests to the SCEF to refer to this chargeable party transaction. If the SCEF receives a response with an error code from the PCRF, the SCEF shall not create the resource and respond to the SCS/AS with a status code set to 500 Internal Server Error.

In order to update the sponsoring status of an established AS session, the SCS/AS shall send an HTTP PATCH message to the SCEF for the "Individual Chargeable Party Transaction" resource requesting to change Sponsoring Status. When receiving the HTTP PATCH message, the SCEF shall make the change and interact with the PCRF to modify the Rx session as defined in 3GPP TS 29.214 [10] or 3GPP TS 29.201 [13]. After receiving the response with successful result code from the PCRF, the SCEF shall send an HTTP response to the SCS/AS with a 200 OKstatus code and the result in the body of the HTTP response. The accumulated usage received from the PCRF shall be included if the SCS/AS requested to disable the sponsoring. If the SCEF receives a response with an error code from the PCRF, the SCEF shall not update the resource and respond to the SCS/AS with a status code set to 500 Internal Server Error.

If the SCEF receives a traffic plane notification (e.g. the usage threshold is reached or transmission resource lost), or if the SCEF gets informed that the Rx session is terminated (e.g. due to a release of PDN connection), the SCEF shall send an HTTP POST message including the notified event (e.g. session terminated) and the accumulated usage to the SCS/AS identified by the notification destination URI received during session setting up. The SCS/AS shall respond with an HTTP response to confirm the received notification.

In order to remove the established AS session, the SCS/AS shall send an HTTP DELETE message to the SCEF for the "Individual Chargeable Party Transaction" resource. After receiving the HTTP DELETE message, the SCEF shall remove all properties of the resource and interact with the PCRF to terminate the Rx session (as defined in 3GPP TS 29.214 [10] or 3GPP TS 29.201 [13]). After receiving the response from the PCRF, the SCEF shall send an HTTP response to the SCS/AS with a corresponding status code and the accumulated usage (if received from the PCRF).

\*\*\* Next Change \*\*\*

##### 5.5.2.1.1 Introduction

This clause defines data structures to be used in resource representations.

Table 5.5.2.1.1-1 specifies data types re-used by the ChargeableParty API from other specifications, including a reference to their respective specifications and when needed, a short description of their use within the ChargeableParty API.

Table 5.5.2.1.1-1: ChargeableParty API re-used Data Types

|  |  |  |
| --- | --- | --- |
| Data type | Reference | Comments |
| EthFlowDescription | 3GPP TS 29.514 [52] | Defines a packet filter for an Ethernet flow.(NOTE) |
| MacAddr48 | 3GPP TS 29.571 [45] | MAC Address. |
| ServAuthInfo | 3GPP TS 29.514 [52] | The authorization result of a request bound to a transfer policy. |
| SupportedFeatures | 3GPP TS 29.571 [45] | Used to negotiate the applicability of the optional features defined in table 5.5.4-1. |
| NOTE: In order to support a set of MAC addresses with a specific range in the traffic filter, feature MacAddressRange\_5G as specified in clause 5.5.4 shall be supported. |

\*\*\* Next Change \*\*\*

##### 5.5.2.1.2 Type: ChargeableParty

This type represents the configuration of a chargeable party. The same structure is used in the configuration request and configuration response.

Table 5.5.2.1.2-1: Definition of type ChargeableParty

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Attribute name | Data type | Cardinality | Description | Applicability (NOTE 1) |
| self | Link | 0..1 | Link to the resource "Individual Chargeable Party Transaction". This parameter shall be supplied by the SCEF in HTTP responses. |  |
| supportedFeatures | SupportedFeatures | 0..1 | Used to negotiate the supported optional features of the API as described in subclause 5.2.7.This attribute shall be provided in the POST request and in the response of successful resource creation. |  |
| notificationDestination | Link | 1 | Contains the URI to receive the notification of bearer level event(s) from the SCEF. |  |
| requestTestNotification | boolean | 0..1 | 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. | Notification\_test\_event |
| websockNotifConfig | WebsockNotifConfig | 0..1 | Configuration parameters to set up notification delivery over Websocket protocol as defined in subclause 5.2.5.4. | Notification\_websocket |
| ipv4Addr | Ipv4Addr | 0..1 | Identifies the Ipv4 address.(NOTE 2) |  |
| ipv6Addr  | Ipv6Addr | 0..1 | Identifies the Ipv6 address.(NOTE 2) |  |
| macAddr | MacAddr48 | 0..1 | Identifies the MAC address.(NOTE 2) | EthChgParty\_5G |
| flowInfo | array(FlowInfo) | 0..N | Describes the IP flows.(NOTE 2) |  |
| ethFlowInfo | array(EthFlowDescription) | 0..N | Identifies Ethernet packet flows.(NOTE 2) | EthChgParty\_5G |
| sponsorInformation | SponsorInformation | 1 | Describes the sponsor information such as who is sponsoring the traffic. |  |
| sponsoringEnabled | boolean | 1 | Indicates sponsoring status. |  |
| referenceId | BdtReferenceId | 0..1 | The reference ID for a previously selected policy of background data transfer. |  |
| servAuthInfo | ServAuthInfo | 0..1 | Indicates the authorization result for the request bound to the transfer policy indicated by the "referenceId" attribute.Supplied by the SCEF |  |
| usageThreshold | UsageThreshold | 0..1 | Time period and/or traffic volume. |  |
| NOTE 1: Properties marked with a feature as defined in subclause 5.5.4 are applicable as described in subclause 5.2.7. If no feature are indicated, the related property applies for all the features.NOTE 2: One of ipv4, ipv6 or MAC address shall be provided. If ipv4 or ipv6 address is provided, IP flow information shall be provided. If MAC address is provided, Ethernet flow information shall be provided. |

\*\*\* Next Change \*\*\*

## A.5 ChargeableParty API

openapi: 3.0.0

info:

 title: 3gpp-chargeable-party

 version: 1.1.1

 description: |

 API for Chargeable Party management.

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externalDocs:

 description: 3GPP TS 29.122 V16.7.0 T8 reference point for Northbound APIs

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

security:

 - {}

 - oAuth2ClientCredentials: []

servers:

 - url: '{apiRoot}/3gpp-chargeable-party/v1'

 variables:

 apiRoot:

 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 chargeable party transaction resources for a given SCS/AS

 tags:

 - Chargeable Party Transaction Operation

 parameters:

 - name: scsAsId

 in: path

 description: Identifier of SCS/AS

 required: true

 schema:

 type: string

 responses:

 '200':

 description: OK (successful query of Chargeable Party resource)

 content:

 application/json:

 schema:

 type: array

 items:

 $ref: '#/components/schemas/ChargeableParty'

 minItems: 0

 description: individual BDT policy subscription.

 '400':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/400'

 '401':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/401'

 '403':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/403'

 '404':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/404'

 '406':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/406'

 '429':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/429'

 '500':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/500'

 '503':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/503'

 default:

 $ref: 'TS29122\_CommonData.yaml#/components/responses/default'

 post:

 summary: Create a new chargeable party transaction resource

 tags:

 - Chargeable Party Transaction Operation

 parameters:

 - name: scsAsId

 in: path

 description: Identifier of SCS/AS

 required: true

 schema:

 type: string

 requestBody:

 description: representation of the Chargeable Party resource to be Created in the SCEF

 required: true

 content:

 application/json:

 schema:

 $ref: '#/components/schemas/ChargeableParty'

 callbacks:

 eventNotification:

 '{$request.body#/notificationDestination}':

 post:

 requestBody: # contents of the callback message

 required: true

 content:

 application/json:

 schema:

 $ref: 'TS29122\_CommonData.yaml#/components/schemas/NotificationData'

 responses:

 '200':

 description: OK (The successful acknowledgement of the notification with a body)

 '400':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/400'

 '401':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/401'

 '403':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/403'

 '404':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/404'

 '411':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/411'

 '413':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/413'

 '415':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/415'

 '429':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/429'

 '500':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/500'

 '503':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/503'

 default:

 $ref: 'TS29122\_CommonData.yaml#/components/responses/default'

 responses:

 '201':

 description: successful creation of a chargeable party resource

 content:

 application/json:

 schema:

 $ref: '#/components/schemas/ChargeableParty'

 headers:

 Location:

 description: 'Contains the URI of the newly created resource'

 required: true

 schema:

 type: string

 '400':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/400'

 '401':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/401'

 '403':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/403'

 '404':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/404'

 '411':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/411'

 '413':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/413'

 '415':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/415'

 '429':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/429'

 '500':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/500'

 '503':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/503'

 default:

 $ref: 'TS29122\_CommonData.yaml#/components/responses/default'

 /{scsAsId}/transactions/{transactionId}:

 get:

 summary: read a chargeable party resource for a given SCS/AS and a transaction Id

 tags:

 - Individual chargeable party resource Operation

 parameters:

 - name: scsAsId

 in: path

 description: Identifier of SCS/AS

 required: true

 schema:

 type: string

 - name: transactionId

 in: path

 description: Identifier of transaction

 required: true

 schema:

 type: string

 responses:

 '200':

 description: OK (successful query of a chargeable party resource)

 content:

 application/json:

 schema:

 $ref: '#/components/schemas/ChargeableParty'

 '400':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/400'

 '401':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/401'

 '403':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/403'

 '404':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/404'

 '406':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/406'

 '429':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/429'

 '500':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/500'

 '503':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/503'

 default:

 $ref: 'TS29122\_CommonData.yaml#/components/responses/default'

 patch:

 summary: Updates a existing chargeable party resource for a given SCS/AS and transaction Id.

 tags:

 - Individual chargeable party resource Operation

 parameters:

 - name: scsAsId

 in: path

 description: Identifier of SCS/AS

 required: true

 schema:

 type: string

 - name: transactionId

 in: path

 description: Identifier of transaction

 required: true

 schema:

 type: string

 requestBody:

 description: representation of the chargeable party resource to be udpated in the SCEF

 required: true

 content:

 application/merge-patch+json:

 schema:

 $ref: '#/components/schemas/ChargeablePartyPatch'

 responses:

 '200':

 description: successful update of a chargeable party resource

 content:

 application/json:

 schema:

 $ref: '#/components/schemas/ChargeableParty'

 '400':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/400'

 '401':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/401'

 '403':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/403'

 '404':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/404'

 '411':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/411'

 '413':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/413'

 '415':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/415'

 '429':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/429'

 '500':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/500'

 '503':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/503'

 default:

 $ref: 'TS29122\_CommonData.yaml#/components/responses/default'

 delete:

 summary: deletes a chargeable party resource for a given SCS/AS and a transcation Id.

 tags:

 - Individual chargeable party resource Operation

 parameters:

 - name: scsAsId

 in: path

 description: Identifier of SCS/AS

 required: true

 schema:

 type: string

 - name: transactionId

 in: path

 description: Identifier of transaction

 required: true

 schema:

 type: string

 responses:

 '204':

 description: successful deletion of an resouce of chargeable party

 '200':

 description: OK (Successful deletion of the existing subscription)

 content:

 application/json:

 schema:

 $ref: 'TS29122\_CommonData.yaml#/components/schemas/NotificationData'

 '400':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/400'

 '401':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/401'

 '403':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/403'

 '404':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/404'

 '429':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/429'

 '500':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/500'

 '503':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/503'

 default:

 $ref: 'TS29122\_CommonData.yaml#/components/responses/default'

components:

 securitySchemes:

 oAuth2ClientCredentials:

 type: oauth2

 flows:

 clientCredentials:

 tokenUrl: '{tokenUrl}'

 scopes: {}

 schemas:

 ChargeableParty:

 type: object

 properties:

 self:

 $ref: 'TS29122\_CommonData.yaml#/components/schemas/Link'

 supportedFeatures:

 $ref: 'TS29571\_CommonData.yaml#/components/schemas/SupportedFeatures'

 notificationDestination:

 $ref: '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.

 websockNotifConfig:

 $ref: 'TS29122\_CommonData.yaml#/components/schemas/WebsockNotifConfig'

 ipv4Addr:

 $ref: 'TS29122\_CommonData.yaml#/components/schemas/Ipv4Addr'

 ipv6Addr :

 $ref: 'TS29122\_CommonData.yaml#/components/schemas/Ipv6Addr'

 macAddr:

 $ref: 'TS29571\_CommonData.yaml#/components/schemas/MacAddr48'

 flowInfo:

 type: array

 items:

 $ref: 'TS29122\_CommonData.yaml#/components/schemas/FlowInfo'

 minItems: 1

 description: Describes the application flows.

 ethFlowInfo:

 type: array

 items:

 $ref: 'TS29514\_Npcf\_PolicyAuthorization.yaml#/components/schemas/EthFlowDescription'

 minItems: 1

 description: Identifies Ethernet packet flows.

 sponsorInformation:

 $ref: 'TS29122\_CommonData.yaml#/components/schemas/SponsorInformation'

 sponsoringEnabled:

 type: boolean

 description: Indicates sponsoring status.

 referenceId:

 $ref: 'TS29122\_CommonData.yaml#/components/schemas/BdtReferenceId'

 servAuthInfo:

 $ref: 'TS29514\_Npcf\_PolicyAuthorization.yaml#/components/schemas/ServAuthInfo'

 usageThreshold:

 $ref: 'TS29122\_CommonData.yaml#/components/schemas/UsageThreshold'

 required:

 - notificationDestination

 - sponsorInformation

 - sponsoringEnabled

 ChargeablePartyPatch:

 type: object

 properties:

 flowInfo:

 type: array

 items:

 $ref: 'TS29122\_CommonData.yaml#/components/schemas/FlowInfo'

 minItems: 1

 description: Describes the application flows.

 ethFlowInfo:

 type: array

 items:

 $ref: 'TS29514\_Npcf\_PolicyAuthorization.yaml#/components/schemas/EthFlowDescription'

 minItems: 1

 description: Identifies Ethernet packet flows.

 sponsoringEnabled:

 type: boolean

 description: Indicates sponsoring status.

 referenceId:

 $ref: 'TS29122\_CommonData.yaml#/components/schemas/BdtReferenceId'

 usageThreshold:

 $ref: 'TS29122\_CommonData.yaml#/components/schemas/UsageThresholdRm'

\*\*\* End of Changes \*\*\*