**3GPP TSG-CT WG3 Meeting #135C3-243315**

**Hyderabad, IN, 27 - 31 May, 2024 (revision of C3-243abc)**

|  |
| --- |
| *CR-Form-v12.2* |
| **CHANGE REQUEST** |
|  |
|  | **29.543** | **CR** | **0007** | **rev** | **-** | **Current version:** | **18.0.0** |  |
|  |
| *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:***  | Corrections on Npcf\_PDTQPolicyControl API |
|  |  |
| ***Source to WG:*** | Huawei |
| ***Source to TSG:*** | CT3 |
|  |  |
| ***Work item code:*** | AIMLsys |  | ***Date:*** | 2024-05-10 |
|  |  |  |  |  |
| ***Category:*** | **F** |  | ***Release:*** | Rel-18 |
|  | *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-16 (Release 16)Rel-17 (Release 17)Rel-18 (Release 18)Rel-19 (Release 19)* |
|  |  |
| ***Reason for change:*** | * The PTDQ in the specification needs to be corrected to PDTQ.
* According to clause 5.2.5.9.2 in TS 23.502, the PDTQ policies are required in the response of the create message.
 |
|  |  |
| ***Summary of change:*** | * Update PTDQ to PDTQ.
* Update the presence condition and description of "pdtqPolicies" attribute.
 |
|  |  |
| ***Consequences if not approved:*** | Errors in the specification. |
|  |  |
| ***Clauses affected:*** | 6.1.6.1, 6.1.6.2.2, 6.1.6.3.2, A.2 |
|  |  |
|  | **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:*** | The CR introduces backward compatible corrections to the OpenAPI file for Npcf\_PDTQPolicyControl API. |
|  |  |
| ***This CR's revision history:*** |  |

**Additional discussion(if needed):**

**Proposed changes:**

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

#### 6.1.6.1 General

This clause specifies the application data model supported by the API.

Table 6.1.6.1-1 specifies the data types defined for the Npcf\_PDTQPolicyControl service based interface protocol.

Table 6.1.6.1-1: Npcf\_PDTQPolicyControl specific Data Types

|  |  |  |  |
| --- | --- | --- | --- |
| Data type | Clause defined | Description | Applicability |
| AltQosParamSet | 6.1.6.2.4 | Contains the alternative QoS requirements expressed as the list of individual QoS parameter sets. |  |
| Notification | 6.1.6.2.7 | Contains the PDTQ notification information. |  |
| PdtqPolicy | 6.1.6.2.5 | Describes a PDTQ policy. |  |
| PdtqPolicyData | 6.1.6.2.2 | Describes an Individual PDTQ policy resource. |  |
| PdtqPolicyPatchData | 6.1.6.2.6 | Represents modifications of an Individual PDTQ policy resource. |  |
| PdtqReferenceId | 6.1.6.3.2 | Represents a PDTQ Reference ID. |  |
| QosParameterSet | 6.1.6.2.3 | Contains the QoS requirements expressed as one or more individual QoS parameters. |  |

Table 6.1.6.1-2 specifies data types re-used by the Npcf\_PDTQPolicyControl service based interface protocol from other specifications, including a reference to their respective specifications and when needed, a short description of their use within the Npcf\_PDTQPolicyControl service based interface.

Table 6.1.6.1-2: Npcf\_PDTQPolicyControl re-used Data Types

|  |  |  |  |
| --- | --- | --- | --- |
| Data type | Reference | Comments | Applicability |
| 5QiPriorityLevel | 3GPP TS 29.571 [21] | Represents the 5QI Priority Level (see clauses 5.7.3.3 and 5.7.4 of 3GPP TS 23.501 [2]) within the range 1 to 127. |  |
| ApplicationId | 3GPP TS 29.571 [21] | Contains the application identifier. |  |
| BitRate | 3GPP TS 29.571 [21] | Represents the bitrate in kbits per second. |  |
| Dnn | 3GPP TS 29.571 [21] | Identifies a Data Network Name. |  |
| ExtMaxDataBurstVol | 3GPP TS 29.571 [21] | Represents the Maximum Data Burst Volume (see clauses 5.7.3.7 and 5.7.4 of 3GPP TS 23.501 [2]), expressed in Bytes.Minimum = 4096. Maximum = 2000000. |  |
| MaxDataBurstVol | 3GPP TS 29.571 [21] | Represents the Maximum Data Burst Volume (see clauses 5.7.3.7 and 5.7.4 of 3GPP TS 23.501 [2]), expressed in Bytes.Minimum = 1. Maximum = 4095. |  |
| NetworkAreaInfo | 3GPP TS 29.554 [22] | Describes a network area information in which the NF service consumer requests the number of UEs. |  |
| PacketDelBudget | 3GPP TS 29.571 [21] | Represents the Packet Delay Budget (see clauses 5.7.3.4 and 5.7.4 of 3GPP TS 23.501 [2]), expressed in milliseconds. |  |
| PacketErrRate | 3GPP TS 29.571 [21] | Represents the Packet Error Rate (see clause 5.7.3.5 and 5.7.4 of 3GPP TS 23.501 [2]), expressed as a "scalar x 10-k" where the scalar and the exponent k are each encoded as one decimal digit. |  |
| ProblemDetails | 3GPP TS 29.571 [21] | Used in error responses to provide more detailed information about an error. |  |
| RedirectResponse | 3GPP TS 29.571 [21] | Contains redirection related information. |  |
| Snssai | 3GPP TS 29.571 [21] | Identifies a Single Network Slice Selection Assistance Information. |  |
| SupportedFeatures | 3GPP TS 29.571 [21] | Used to negotiate the applicability of the optional features defined in table 6.1.8-1. |  |
| TimeWindow | 3GPP TS 29.122 [23] | Specifies a time interval. |  |
| Uri | 3GPP TS 29.571 [21] | String providing an URI. |  |

\*\*\* 2nd Change \*\*\*

##### 6.1.6.2.2 Type: PdtqPolicyData

Table 6.1.6.2.2-1: Definition of type PdtqPolicyData

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Attribute name | Data type | P | Cardinality | Description | Applicability |
| altQosParamSets | array(AltQosParamSet) | O | 1..N | This IE contains the alternative QoS requirements expressed as the list of individual QoS parameter sets in a prioritized order.The lower the index of the array for a given entry, the higher the priority.(NOTE 4) |  |
| altQosRefs | array(string) | O | 1..N | This IE contains the alternative QoS requirements expressed as the list of QoS References in a prioritized order.The lower the index of the array for a given entry, the higher the priority.(NOTE 3) |  |
| appId | ApplicationId | O | 0..1 | This IE contains an application identifier. |  |
| aspId | string | M | 1 | This IE contains an identity of an application service provider. |  |
| desTimeInts | array(TimeWindow) | M | 1..N | This IE contains a list of desired time windows for PDTQ. |  |
| dnn | Dnn | O | 0..1 | This IE identifies a DNN. A full DNN with both the Network Identifier and Operator Identifier, or a DNN with the Network Identifier only.(NOTE 1) |  |
| notifUri | Uri | O | 0..1 | This IE contains an URI of the recipient of the PDTQ notification. |  |
| nwAreaInfo | NetworkAreaInfo | O | 0..1 | This IE represents a network area information in which the NF service consumer requests a number of UEs. |  |
| numOfUes | integer | M | 1 | This IE indicates a number of UEs. |  |
| pdtqPolicies | array(PdtqPolicy) | C | 1..N | This IE contains PDTQ policies.Shall be present in the response of the create message. |  |
| pdtqRefId | PdtqReferenceId | O | 0..1 | This IE identifies PDTQ policies of planned data transfer with QoS requirements for provided ASP. |  |
| qosParamSet | QosParameterSet | C | 0..1 | This IE contains the requested QoS requirements expressed as one or more individual QoS parameters.(NOTE 2) |  |
| qosReference | string | C | 0..1 | This IE contains the requested QoS requirements expressed as the QoS Reference which represents a pre-defined QoS information.(NOTE 2) |  |
| selPdtqPolicyId | integer | O | 0..1 | This IE contains the identity of the selected PDTQ policy.(NOTE 5) |  |
| snssai | Snssai | O | 0..1 | This IE identifies a slice. |  |
| suppFeat | SupportedFeatures | O | 0..1 | This IE represents a list of Supported features used as described in clause 6.1.8. |  |
| warnNotifReq | boolean | O | 0..1 | This IE indicates whether the PDTQ warning notification is enabled or disabled.true: enabled;false: disabled (default). |  |
| NOTE 1: The PCF uses the DNN as received from the NF service consumer without applying any transformation. To successfully perform DNN matching, in a specific deployment a DNN shall always be encoded either with the full DNN (e.g., because there are multiple Operator Identifiers for a Network Identifier) or the DNN Network Identifier only. The NF service consumer may include the DNN Operator Identifier based on local configuration.NOTE 2: Either the "qosReference" attribute or the "qosParamSet" attribute shall be included.NOTE 3: The "altQosRefs" attribute may be included only if the ""qosReference" attribute is included.NOTE 4: The "altQosParamSets" attribute may be included only if the "qosParamSet" attribute is included.NOTE 5: The value "0" indicates that no PDTQ policy is selected. |

\*\*\* 3rd Change \*\*\*

##### 6.1.6.3.2 Simple data types

The simple data types defined in table 6.1.6.3.2-1 shall be supported.

Table 6.1.6.3.2-1: Simple data types

|  |  |  |  |
| --- | --- | --- | --- |
| Type Name | Type Definition | Description | Applicability |
| PdtqReferenceId | string | Represents a PDTQ Reference ID. |  |

\*\*\* 4th Change \*\*\*

# A.2 Npcf\_PDTQPolicyControl API

openapi: 3.0.0

info:

 title: Npcf\_PDTQPolicyControl API

 version: 1.0.0-alpha.6

 description: |

 PCF PDTQ Policy Control service.

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externalDocs:

 description: 3GPP TS 29.543 V18.0.0; 5G System; Data Transfer Policy Control Services; Stage 3.

 url: 'https://www.3gpp.org/ftp/Specs/archive/29\_series/29.543/'

servers:

 - url: '{apiRoot}/npcf-pdtq-policy-control/v1'

 variables:

 apiRoot:

 default: https://example.com

 description: apiRoot as defined in clause 4.4 of 3GPP TS 29.501.

security:

 - {}

 - oAuth2ClientCredentials:

 - npcf-pdtq-policy-control

paths:

 /pdtq-policies:

 post:

 summary: Creates a new Individual PDTQ policy resource.

 operationId: CreatePDTQPolicy

 tags:

 - PDTQ policies (Collection)

 requestBody:

 description: >

 Contains information for the creation of a new Individual PDTQ policy resource.

 required: true

 content:

 application/json:

 schema:

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

 responses:

 '201':

 description: >

 Created, an Individual PDTQ policy resource is created and a representation of that

 resource is returned.

 content:

 application/json:

 schema:

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

 headers:

 Location:

 description: >

 Contains the URI of the created Individual PDTQ policy resource,

 according to the structure

 {apiRoot}/npcf-pdtq-policy-control/v1/pdtq-policies/{pdtqPolicyId}

 required: true

 schema:

 type: string

 '400':

 $ref: 'TS29571\_CommonData.yaml#/components/responses/400'

 '401':

 $ref: 'TS29571\_CommonData.yaml#/components/responses/401'

 '403':

 $ref: 'TS29571\_CommonData.yaml#/components/responses/403'

 '404':

 $ref: 'TS29571\_CommonData.yaml#/components/responses/404'

 '411':

 $ref: 'TS29571\_CommonData.yaml#/components/responses/411'

 '413':

 $ref: 'TS29571\_CommonData.yaml#/components/responses/413'

 '415':

 $ref: 'TS29571\_CommonData.yaml#/components/responses/415'

 '429':

 $ref: 'TS29571\_CommonData.yaml#/components/responses/429'

 '500':

 $ref: 'TS29571\_CommonData.yaml#/components/responses/500'

 '502':

 $ref: 'TS29571\_CommonData.yaml#/components/responses/502'

 '503':

 $ref: 'TS29571\_CommonData.yaml#/components/responses/503'

 default:

 $ref: 'TS29571\_CommonData.yaml#/components/responses/default'

 callbacks:

 PDTQNotification:

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

 post:

 requestBody:

 required: true

 content:

 application/json:

 schema:

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

 responses:

 '204':

 description: >

 No Content, the reception of a PDTQ warning notification is acknowledged.

 '307':

 $ref: 'TS29571\_CommonData.yaml#/components/responses/307'

 '308':

 $ref: 'TS29571\_CommonData.yaml#/components/responses/308'

 '400':

 $ref: 'TS29571\_CommonData.yaml#/components/responses/400'

 '401':

 $ref: 'TS29571\_CommonData.yaml#/components/responses/401'

 '403':

 $ref: 'TS29571\_CommonData.yaml#/components/responses/403'

 '404':

 $ref: 'TS29571\_CommonData.yaml#/components/responses/404'

 '411':

 $ref: 'TS29571\_CommonData.yaml#/components/responses/411'

 '413':

 $ref: 'TS29571\_CommonData.yaml#/components/responses/413'

 '415':

 $ref: 'TS29571\_CommonData.yaml#/components/responses/415'

 '429':

 $ref: 'TS29571\_CommonData.yaml#/components/responses/429'

 '500':

 $ref: 'TS29571\_CommonData.yaml#/components/responses/500'

 '502':

 $ref: 'TS29571\_CommonData.yaml#/components/responses/502'

 '503':

 $ref: 'TS29571\_CommonData.yaml#/components/responses/503'

 default:

 $ref: 'TS29571\_CommonData.yaml#/components/responses/default'

 /pdtq-policies/{pdtqPolicyId}:

 get:

 summary: Reads an Individual PDTQ policy resource.

 operationId: GetIndPDTQPolicy

 tags:

 - Individual PDTQ policy (Document)

 parameters:

 - name: pdtqPolicyId

 description: String identifying the individual PDTQ policy resource in the PCF.

 in: path

 required: true

 schema:

 type: string

 responses:

 '200':

 description: OK, a representation of an Individual PDTQ policy resource is returned.

 content:

 application/json:

 schema:

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

 '307':

 $ref: 'TS29571\_CommonData.yaml#/components/responses/307'

 '308':

 $ref: 'TS29571\_CommonData.yaml#/components/responses/308'

 '400':

 $ref: 'TS29571\_CommonData.yaml#/components/responses/400'

 '401':

 $ref: 'TS29571\_CommonData.yaml#/components/responses/401'

 '403':

 $ref: 'TS29571\_CommonData.yaml#/components/responses/403'

 '404':

 $ref: 'TS29571\_CommonData.yaml#/components/responses/404'

 '406':

 $ref: 'TS29571\_CommonData.yaml#/components/responses/406'

 '429':

 $ref: 'TS29571\_CommonData.yaml#/components/responses/429'

 '500':

 $ref: 'TS29571\_CommonData.yaml#/components/responses/500'

 '502':

 $ref: 'TS29571\_CommonData.yaml#/components/responses/502'

 '503':

 $ref: 'TS29571\_CommonData.yaml#/components/responses/503'

 default:

 $ref: 'TS29571\_CommonData.yaml#/components/responses/default'

 patch:

 summary: Modifies an existing Individual PDTQ policy resource.

 operationId: ModifyIndPDTQPolicy

 tags:

 - Individual PDTQ policy (Document)

 parameters:

 - name: pdtqPolicyId

 description: String identifying the individual PDTQ policy resource in the PCF.

 in: path

 required: true

 schema:

 type: string

 requestBody:

 description: >

 Contains modifications that shall be applied on the existing Individual PDTQ

 policy resource.

 required: true

 content:

 application/merge-patch+json:

 schema:

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

 responses:

 '200':

 description: >

 OK, the Individual PDTQ policy resource is modified and a representation of

 that resource is returned.

 content:

 application/json:

 schema:

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

 '204':

 description: No Content, the Individual PDTQ policy resource is modified.

 '307':

 $ref: 'TS29571\_CommonData.yaml#/components/responses/307'

 '308':

 $ref: 'TS29571\_CommonData.yaml#/components/responses/308'

 '400':

 $ref: 'TS29571\_CommonData.yaml#/components/responses/400'

 '401':

 $ref: 'TS29571\_CommonData.yaml#/components/responses/401'

 '403':

 $ref: 'TS29571\_CommonData.yaml#/components/responses/403'

 '404':

 $ref: 'TS29571\_CommonData.yaml#/components/responses/404'

 '411':

 $ref: 'TS29571\_CommonData.yaml#/components/responses/411'

 '413':

 $ref: 'TS29571\_CommonData.yaml#/components/responses/413'

 '415':

 $ref: 'TS29571\_CommonData.yaml#/components/responses/415'

 '429':

 $ref: 'TS29571\_CommonData.yaml#/components/responses/429'

 '500':

 $ref: 'TS29571\_CommonData.yaml#/components/responses/500'

 '502':

 $ref: 'TS29571\_CommonData.yaml#/components/responses/502'

 '503':

 $ref: 'TS29571\_CommonData.yaml#/components/responses/503'

 default:

 $ref: 'TS29571\_CommonData.yaml#/components/responses/default'

components:

 securitySchemes:

 oAuth2ClientCredentials:

 type: oauth2

 flows:

 clientCredentials:

 tokenUrl: '{nrfApiRoot}/oauth2/token'

 scopes:

 npcf-pdtq-policy-control: Access to the Npcf\_PDTQPolicyControl API

 schemas:

# Structured data types

 PdtqPolicyData:

 description: Describes an Individual PDTQ policy resource.

 type: object

 required:

 - aspId

 - desTimeInts

 - numOfUes

 oneOf:

 - required: [qosReference]

 - required: [qosParamSet]

 properties:

 altQosParamSets:

 description: >

 Contains the alternative QoS requirements expressed as the list of individual

 QoS parameter sets in a prioritized order. The lower the index of the array for

 a given entry, the higher the priority.

 type: array

 items:

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

 minItems: 1

 altQosRefs:

 description: >

 Contains the alternative QoS requirements expressed as the list of QoS References

 in a prioritized order. The lower the index of the array for a given entry, the

 higher the priority.

 type: array

 items:

 type: string

 minItems: 1

 appId:

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

 aspId:

 description: Contains an identity of an application service provider.

 type: string

 desTimeInts:

 description: Contains a list of desired time windows for PDTQ.

 type: array

 items:

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

 minItems: 1

 dnn:

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

 notifUri:

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

 nwAreaInfo:

 $ref: 'TS29554\_Npcf\_BDTPolicyControl.yaml#/components/schemas/NetworkAreaInfo'

 numOfUes:

 description: Indicates a number of UEs.

 type: integer

 pdtqPolicies:

 description: Contains PDTQ policies.

 type: array

 items:

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

 minItems: 1

 pdtqRefId:

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

 qosParamSet:

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

 qosReference:

 description: >

 Contains the requested QoS requirements expressed as the QoS Reference which

 represents a pre-defined QoS information.

 type: string

 selPdtqPolicyId:

 description: Contains the identity of the selected PDTQ policy.

 type: integer

 snssai:

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

 suppFeat:

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

 warnNotifReq:

 description: >

 Indicates whether the PDTQ warning notification is enabled (true) or

 disabled (false). Default value is false.

 type: boolean

 default: false

 QosParameterSet:

 description: >

 Contains the QoS requirements expressed as one or more individual QoS parameters.

 type: object

 properties:

 extMaxBurstSize:

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

 gfbrDl:

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

 gfbrUl:

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

 maxBitRateDl:

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

 maxBitRateUl:

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

 maxBurstSize:

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

 pdb:

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

 per:

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

 priorLevel:

 $ref: 'TS29571\_CommonData.yaml#/components/schemas/5QiPriorityLevel'

 AltQosParamSet:

 description: >

 Contains the alternative QoS requirements expressed as the list of individual QoS

 parameter sets.

 type: object

 properties:

 gfbrDl:

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

 gfbrUl:

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

 pdb:

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

 per:

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

 PdtqPolicy:

 description: Describes a PDTQ policy.

 type: object

 required:

 - pdtqPolicyId

 - recTimeInt

 properties:

 pdtqPolicyId:

 description: Contains an identity of a PDTQ policy.

 type: integer

 recTimeInt:

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

 PdtqPolicyPatchData:

 description: Represents modifications of an Individual PDTQ policy resource.

 type: object

 properties:

 notifUri:

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

 selPdtqPolicyId:

 description: Contains the identity of the selected PDTQ policy.

 type: integer

 warnNotifReq:

 description: >

 Indicates whether the PDTQ warning notification is enabled (true) or

 disabled (false).

 type: boolean

 Notification:

 description: Contains the PDTQ notification information.

 type: object

 required:

 - pdtqRefId

 - candPolicies

 properties:

 pdtqRefId:

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

 candPolicies:

 description: >

 Contains a list of the candidate PDTQ policies from which the AF may select a new

 PDTQ policy.

 type: array

 items:

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

 minItems: 1

# Simple data types

 PdtqReferenceId:

 description: Represents a PDTQ Reference ID.

 type: string

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