**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 can be 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 \*\*\*