**3GPP TSG- WG3 Meeting #5**

**Hyderabad, India, 27th–31st May 2024**

|  |
| --- |
| *CR-Form-v12.2* |
| **CHANGE REQUEST** |
|  |
|  |  | **CR** | **1281** | **rev** |  | **Current version:** | **18.5.0** |  |
|  |
| *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:***  | Update on UE RangingSL Positioning privacy profile |
|  |  |
| ***Source to WG:*** | Xiaomi, Huawei? |
| ***Source to TSG:*** | C3 |
|  |  |
| ***Work item code:*** | Ranging\_SL |  | ***Date:*** |  |
|  |  |  |  |  |
| ***Category:*** | F |  | ***Release:*** |  |
|  | *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:*** | It is defined UE Ranging/SL Positioning privacy profile in TS 33.533 Annex B.And UE Ranging/SL Positioning privacy profile is used during the corresponding UE privacy check.The TS 29.503 CR#1257 was agreed in April meeting to introduce the privacy check in network for Ranging\_SL within Nudm\_SDM service but the related stage 3 implementation needs to be aligned for Nnef parameter provisioning service. |
|  |  |
| ***Summary of change:*** | Add the description related to Ranging and Sidelink Positioning privacy profile for Nnef parameter provisioning service. |
|  |  |
| ***Consequences if not approved:*** | Not aligned with stage 2 and the privacy check in network for Ranging\_SL not supported witin Nnef parameter provisioning service.  |
|  |  |
| ***Clauses affected:*** | 3.2, 4.1, 4.4.xx(new), 5.1, 5.xx(new), 5.xx.0(new), 5.xx.1(new), 5.xx.1.1(new), 5.xx.1.2(new), 5.xx.1.2.1(new), 5.xx.1.2.2(new), 5.xx.1.2.3(new), 5.xx.1.2.3.1(new), 5.xx.1.2.3.2(new), 5.xx.1.2.3.3(new), 5.xx.1.3(new), 5.xx.1.3.1(new), 5.xx.1.3.2(new), 5.xx.1.3.3(new), 5.xx.1.3.3.1(new), 5.xx.1.3.3.2(new), 5.xx.1.3.3.3(new), 5.xx.1.3.3.3A(new), 5.xx.1.3.3.4(new), 5.xx.1A(new), 5.xx.1B(new), 5.xx.2(new), 5.xx.2.1(new), 5.xx.2.2(new), 5.xx.2.3(new), 5.xx.2.3.1(new), 5.xx.2.3.2(new), 5.xx.2.3.3(new), 5.xx.2.4(new), 5.xx.2.4.1(new), 5.xx.2.4.2(new), 5.xx.3(new), 5.xx.4(new), 5.xx.4.1(new), 5.xx.4.2(new), 5.xx.4.3(new), A.xx(new) |
|  |  |
|  | **Y** | **N** |  |  |
| ***Other specs*** | **X** |  |  Other core specifications  | TS 29.503 CR#1257 |
| ***affected:*** |  | **x** |  Test specifications | TS/TR ... CR ...  |
| ***(show related CRs)*** |  | **x** |  O&M Specifications | TS/TR ... CR ...  |
|  |  |
| ***Other comments:*** | This CR introduces a backward compatible feature in RslpiParameterProvision API. |
|  |  |
| ***This CR's revision history:*** |  |

\* \* \* First Change \* \* \* \*

## 3.2 Abbreviations

For the purposes of the present document, the abbreviations given in 3GPP TR 21.905 [1] and the following apply. An abbreviation defined in the present document takes precedence over the definition of the same abbreviation, if any, in 3GPP TR 21.905 [1].

A-KID AKMA Key IDentifier

A-TID AKMA Temporary UE IDentifier

A2X Aircraft-to-Everything

AAnF AKMA Anchor Function

ACS Auto-Configuration Server

AI/ML Artificial Intelligence/Machine Learning

AF Application Function

AKMA Authentication and Key Management for Applications

AM Access and Mobility management

ASTI Access Stratum TIme distribution

BAT Burst Arrival Time

BDT Background Data Transfer

CAPIF Common API Framework

CP Communication Pattern

DN Data Network

DNAI DN Access Identifier

DNN Data Network Name

EAS Edge Application Server

ECS Edge Configuration Server

EHE Edge Hosting Environment

FQDN Fully Qualified Domain Name

GMLC Global Mobile Location Centre

GPSI Generic Public Subscription Identifier

IPTV Internet Protocol Television

KAF AKMA Application Key

LPI Location Privacy Indication

MBS Multicast/Broadcast Service

MB-SMF Multicast/Broadcast Session Management Function

MCC Mobile Country Code

MNC Mobile Network Code

MO-LR Mobile Originated Location Request

NAT Network Address Translation

NAPT Network Address Port Translation

NEF Network Exposure Function

NSAC Network Slice Admission Control

NSACF Network Slice Admission Control Function

PCF Policy Control Function

PEGC PIN Element with Gateway Capability

PCRF Policy and Charging Rule Function

PDTQ Planned Data Transfer with QoS requirements

PFD Packet Flow Description

PFDF Packet Flow Description Function

PIN Personal IoT Network

REST Representational State Transfer

RSLPPI Ranging and SideLink Positioning Privacy Indication

SCEF Service Capability Exposure Function

SFC Service Function Chain

S-NSSAI Single Network Slice Selection Assistance Information

SSM Source Specific IP Multicast address

TAI Traffic Area Identity

TMGI Temporary Mobile Group Identity

TNAP Trusted Network Access Point

TSC Time Sensitive Communication

TSCAI Time Sensitive Communication Assistance Information

TSCTSF Time Sensitive Communication and Time Synchronization Function

UDR Unified Data Repository

UP User Plane

UPF User Plane Function

URSP UE Route Selection Policy

WB Wide Band

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

## 4.1 Overview

The NEF Northbound interface is between the NEF and the AF. It specifies RESTful/RPC APIs that allow the AF to access the services and capabilities provided by 3GPP network entities and securely exposed by the NEF.

This document also specifies the procedures triggered at the NEF by API requests from the AF and by event notifications received from 3GPP network entities.

The stage 2 level requirements and signalling flows for the NEF Northbound interface are defined in 3GPP TS 23.502 [2], 3GPP TS 23.247 [53] for MBS specific aspects and 3GPP TS 26.531 [59] for data reporting provisioning and Media Streaming Event Exposure specific aspects.

The NEF Northbound interface supports the following procedures:

1) Procedures for Monitoring.

2) Procedures for Device Triggering.

3) Procedures for resource management of Background Data Transfer.

4) Procedures for CP Parameters, Network Configuration Parameters Provisioning, 5G LAN Parameters Provisioning, ACS Configuration Parameter Provisioning, Location Privacy Indication (LPI) Parameters Provisioning, ECS address provisioning, Slice Parameters Provisioning, DNN and S-NSSAI specific Group Parameters provisioning, and Ranging and SideLink Positioning Privacy Indication (RSLPPI) Parameters Provisioning.

5) Procedures for PFD Management.

6) Procedures for Traffic Influence.

7) Procedures for changing the chargeable party at session set up or during the session.

8) Procedures for AF required QoS.

9) Procedures for MSISDN-less Mobile Originated SMS.

10) Procedures for non-IP data delivery.

11) Procedures for analytics information exposure.

12) Procedure for applying BDT policy.

13) Procedures for Enhanced Coverage Restriction Control.

14) Procedures for IPTV Configuration.

15) Procedures for Service Parameter Provisioning.

16) Procedures for RACS Parameter Provisioning.

17) Procedures for Mobile Originated Location Request.

18) Procedures for AKMA.

19) Procedures for AF triggered Access and Mobility Influence.

20) Procedures for AF triggered Access and Mobility Policy Authorization.

21) Procedures for Time Synchronization Exposure.

22) Procedures for EAS Deployment information provisioning.

23) Procedures for TMGI allocation, deallocation, expiry timer refresh and timer expiry notification.

24) Procedures for MBS session management and parameters provisioning.

25) Procedures for Data Reporting.

26) Procedures for Data Reporting Provisioning.

27) Procedures for AF specific UE ID retrieval.

28) Procedures for Media Streaming Event Exposure.

29) Procedures for MBS User Service management.

30) Procedures for MBS User Data Ingest Session management.

31) Procedures for MBS Group Message Delivery management.

32) Procedures for DNAI mapping.

33) Procedures for negotiation of Planned Data Transfer with QoS requirements.

34) Procedures for Member UE Slection Assistance.

37) Procedures for UE Address retrieval.

38) Procedures for ECS Address configuration in roaming.

Which correspond to the following services respectively, supported by the NEF as defined in 3GPP TS 23.502 [2] or 3GPP TS 26.531 [59]:

1) Nnef\_EventExposure service and Nnef\_APISupportCapability service.

2) Nnef\_Trigger service.

3) Nnef\_BDTPNegotiation service.

4) Nnef\_ParameterProvision service.

5) Nnef\_PFDManagement service.

6) Nnef\_TrafficInfluence service.

7) Nnef\_ChargeableParty service.

8) Nnef\_AFsessionWithQoS service and Nnef\_AF\_Request\_for\_QoS service.

9) Nnef\_MSISDN-less\_MO\_SMS service.

10) Nnef\_NIDDConfiguration and Nnef\_NIDD services.

11) Nnef\_AnalyticsExposure service.

12) Nnef\_ApplyPolicy service.

13) Nnef\_ECRestriction service.

14) Nnef\_IPTVConfiguration service.

15) Nnef\_ServiceParameter service.

16) Nnef\_UCMFProvisioning service.

17) Nnef\_Location service.

18) Nnef\_AKMA service.

19) Nnef\_AMInfluence service.

20) Nnef\_AMPolicyAuthorization service.

21) Nnef\_TimeSynchronization and Nnef\_ASTI services.

22) Nnef\_EASDeployment service.

23) Nnef\_MBSTMGI service.

24) Nnef\_MBSSession service.

25) Nnef\_DataReporting service.

26) Nnef\_DataReportingProvisioning service.

27) Nnef\_UEId service.

28) Nnef\_MSEventExposure service.

29) Nnef\_MBSUserService service.

30) Nnef\_MBSUserDataIngestSession service.

31) Nnef\_MBSGroupMsgDelivery service.

32) Nnef\_DNAIMapping service.

33) Nnef\_PDTQPolicyNegotiation service.

34) Nnef\_MemberUESelectionAssistance service.

37) Nnef\_UEAddress service.

38) Nnef\_ECSAddress service.

NOTE 1: For Nnef\_PFDManagement service, only the Nnef\_PFDManagement\_Create/Update/Delete service operations are applicable for the NEF Northbound interface.

NOTE 2: For Nnef\_NIDD service, NF consumer other than the AF does not use the NEF Northbound interface.

NOTE 3: For Nnef\_NIDDConfiguration service, the Nnef\_NIDDConfiguration\_Trigger service operation is only applicable for the NEF Northbound interface.

NOTE 4: The Nnef\_APISupportCapability service is only applicable in the MonitoringEvent API when the monitoring type sets to "API\_SUPPORT\_CAPABILITY".

NOTE 5: The Nnef\_MSEventExposure service maps to the Nnef\_EventExposure service and is applicable for the case where the event consumer AF in the Application Service Provider is deployed outside the trusted domain, as described in 3GPP TS 26.531 [59], and the subscribed event is set to "MS\_QOE\_METRICS", "MS\_CONSUMPTION", "MS\_NET\_ASSIST\_INVOCATION", "MS\_DYN\_POLICY\_INVOCATION", or "MS\_ACCESS\_ACTIVITY".

NOTE 6: The stage 2 Nnef\_AF\_request\_for\_QoS API is defined by reusing the Nnef\_AFsessionWithQoS API with the "GMEC\_5G" feature.

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

4.4.41 Procedures for RSLPPI Parameters Provisioning

#### 4.4.41.1 General

The procedures described in the clauses below are used by an AF to interact with the 5GC for RSLPPI Parameters Provisioning, in order to carry out the following procedures:

- RSLPPI parameters provisioning procedures (see clause 4.15.6.2 of 3GPP TS 23.502 [2]).

#### 4.4.41.2 Procedures for RSLPPI Parameters Provisioning

This procedure is used by an AF to request the creation/update/deletion of a RSLPPI parameters provisioning.

In order to request the creation of a RSLPPI Parameters Provisioning:

- an AF shall trigger the Nnef\_RSLPPIParametersProvisioning API by sending an HTTP POST request to the NEF targeting the "RSLPPI Parameters Provisionings" collection resource, with the request body including the RslppiPpData data structure;

- the NEF shall then check whether the AF is authorized to perform this operation or not;

- if the AF is authorized:

- the NEF shall then trigger the Nudm\_ParameterProvision service API of the UDM to request the provisioning of the received RSLPPI parameters provisioning data as specified in 3GPP TS 29.503 [17];

and

- upon reception of a successful response from the UDM as defined in 3GPP TS 29.503 [17] and successful processing of the request, the NEF shall respond to the AF with an HTTP "201 Created" status code including an HTTP "Location" header field containing the URI of the created resource, and the response body including a representation of the created "Individual RSLPPI Parameters Provisioning" resource within the RslppiPpData data structure.

In order to request the update of an existing "Individual RSLPPI Parameters Provisioning" resource:

- the AF shall trigger the Nnef\_RSLPPIParametersProvisioning API by sending to the NEF either:

- an HTTP PUT request targeting the corresponding "Individual RSLPPI Parameters Provisioning" resource with the request body including the RslppiPpData data structure; or

- an HTTP PATCH request targeting the corresponding "Individual RSLPPI Parameters Provisioning" resource with the request body including the RslppiPpDataPatch data structure;

- after authorizing the request, the NEF shall interact with the UDM via the the Nudm\_ParameterProvision service API to request the provisioning of the received updated RSLPPI parameters provisioning data; and

- upon reception of a successful response from the UDM as defined in 3GPP TS 29.503 [17] and successful processing of the request, the NEF shall respond to the AF with either:

- an HTTP "200 OK" status code with the response body containing a representation of the updated "Individual RSLPPI Parameters Provisioning" resource within the RslppiPpData data structure; or

- an HTTP "204 No Content" status code.

In order to request the deletion of an existing "Individual RSLPPI Parameters Provisioning" resource:

- the AF shall trigger the Nnef\_RSLPPIParametersProvisioning API by sending an HTTP DELETE request targeting the corresponding "Individual RSLPPI Parameters Provisioning" resource to the NEF; and

- upon success, the NEF shall respond to the AF with an HTTP "204 No Content" status code.

On failure or if the NEF receives an error code from the UDM, the NEF shall take proper error handling actions, as specified in clause 5.37.7, and respond to the AF with an appropriate error status code.

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

## 5.1 Introduction

The NEF Northbound APIs are a set of APIs defining the related procedures and resources for the interaction between the NEF and the AF.

Tables 5.1-1 summarizes the APIs defined in this specification.

Table 5.1-1: API Descriptions

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Service Name | Clause defined | Description | OpenAPI Specification File | API Name | Annex |
| TrafficInfluence | 5.4 | Traffic Influence API | TS29522\_TrafficInfluence.yaml | 3gpp-traffic-influence | A.2 |
| NiddConfigurationTrigger | 5.5 | NIDD (Non-IP Data Delivery) Configuration Trigger API | TS29522\_NiddConfigurationTrigger.yaml | 3gpp-nidd-configuration-trigger | A.3 |
| AnalyticsExposure | 5.6 | Analytics Exposure API | TS29522\_AnalyticsExposure.yaml | 3gpp-analyticsexposure | A.4 |
| 5GLANParameterProvision | 5.7 | 5G LAN Parameter Provision API | TS29522\_5GLANParameterProvision.yaml | 3gpp-5glan-pp | A.5 |
| ApplyingBdtPolicy | 5.8 | Applying BDT Policy API | TS29522\_ApplyingBdtPolicy.yaml | 3gpp-applying-bdt-policy | A.6 |
| IPTVConfiguration | 5.9 | IPTV Configuration API | TS29522\_IPTVConfiguration.yaml | 3gpp-iptvconfiguration | A.7 |
| LpiParameterProvision | 5.10 | LPI (Location Privacy Indicator) Parameter Provision API | TS29522\_LpiParameterProvision.yaml | 3gpp-lpi-pp | A.8 |
| ServiceParameter | 5.11 | Service Parameter API | TS29522\_ServiceParameter.yaml | 3gpp-service-parameter | A.9 |
| ACSParameterProvision | 5.12 | ACS Parameter Provision API | TS29522\_ACSParameterProvision.yaml | 3gpp-acs-pp | A.10 |
| MoLcsNotify | 5.13 | MO LCS Notify API | TS29522\_MoLcsNotify.yaml | 3gpp-mo-lcs-notify | A.11 |
| AKMA | 5.14 | AKMA API | TS29522\_AKMA.yaml | 3gpp-akma | A.12 |
| TimeSyncExposure | 5.15 | Time Sync Exposure API | TS29522\_TimeSyncExposure.yaml | 3gpp-time-sync-exposure | A.13 |
| EcsAddressProvision | 5.16 | ECS Address Provision API | TS29522\_EcsAddressProvision.yaml | 3gpp-ecs-address-provision | A.14 |
| AMPolicyAuthorization | 5.17 | AM Policy Authorization API | TS29522\_AMPolicyAuthorization.yaml | 3gpp-am-policyauthorization | A.15 |
| AMInfluence | 5.18 | AM Influence API | TS29522\_AMInfluence.yaml | 3gpp-am-influence | A.16 |
| MBSTMGI | 5.19 | MBS TMGI API | TS29522\_MBSTMGI.yaml | 3gpp-mbs-tmgi | A.17 |
| MBSSession | 5.20 | MBS Session API | TS29522\_MBSSession.yaml | 3gpp-mbs-session | A.18 |
| EASDeployment | 5.21 | EAS Deployment API | TS29522\_EASDeployment.yaml | 3gpp-eas-deployment | A.19 |
| ASTI | 5.22 | ASTI API | TS29522\_ASTI.yaml | 3gpp-asti | A.20 |
| DataReporting | 5.23 | DataReporting API | TS29522\_DataReporting.yaml | 3gpp-data-reporting | A.21 |
| DataReportingProvisioning | 5.24 | DataReportingProvisioning API | TS29522\_DataReportingProvisioning.yaml | 3gpp-data-reporting-provisioning | A.22 |
| UEId | 5.25 | UE ID API | TS29522\_UEId.yaml | 3gpp-ueid | A.23 |
| MBSUserService | 5.26 | MBSUserService API | TS29522\_MBSUserService.yaml | 3gpp-mb-us | A.24 |
| MBSUserDataIngestSession | 5.27 | MBSUserDataIngestSession API | TS29522\_MBSUserDataIngestSession.yaml | 3gpp-mb-ud-ingest | A.25 |
| MSEventExposure | 5.28 | MSEventExposure API | TS29522\_MSEventExposure.yaml | 3gpp-event-exposure | A.26 |
| MBSGroupMsgDelivery | 5.29 | MBSGroupMsgDelivery API | TS29522\_MBSGroupMsgDelivery.yaml | 3gpp-mbs-group-msg | A.27 |
| DNAIMapping | 5.30 | DNAIMapping API | TS29522\_DNAIMapping.yaml | 3gpp-dnai-mapping | A.28 |
| PDTQPolicyNegotiation | 5.31 | PDTQPolicyNegotiation API | TS29522\_PDTQPolicyNegotiation.yaml | 3gpp-pdtq-policy-negotiation | A.29 |
| MemberUESelectionAssistance | 5.32 | MemberUESelectionAssistance API | TS29522\_MemberUESelectionAssistance.yaml | 3gpp-musa | A.30 |
| GroupParametersProvisioning | 5.33 | Group Parameters Provisioning API | TS29.522\_GroupParametersProvisioning.yaml | 3gpp-grp-pp | A.31 |
| SliceParamProvision | 5.34 | Network Slice Parameters Provisioning API | TS29.522\_SliceParamProvision.yaml | 3gpp-slice-pp | A.32 |
| RSLPPIParametersProvisioning | 5.37 | RSLPPI Parameters Provisioning API | TS29522\_RSLPPIParametersProvisioning.yaml | 3gpp-rslppi-pp | A.35 |

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

## 5.37 RSLPPIParametersProvisioning API

### 5.37.1 Introduction

The Nnef\_ParameterProvision service shall use the RSLPPIParametersProvisioning API for:

- RSLPPI Parameters provisioning.

The API URI of the RSLPPIParametersProvisioning API shall be:

**{apiRoot}/<apiName>/<apiVersion>**

The request URIs used in HTTP requests shall have the Resource URI structure defined in clause 5.2.4 of 3GPP TS 29.122 [4], i.e.:

**{apiRoot}/<apiName>/<apiVersion>/<apiSpecificSuffixes>**

with the following components:

- "apiRoot" is set as defined in clause 5.2.4 of 3GPP TS 29.122 [4].

- "apiName" shall be set to "3gpp-rslppi-pp".

- "apiVersion" shall be set to "v1" for the current version defined in the present document.

- The <apiSpecificSuffixes> shall be set as described in clause 5.2.4 of 3GPP TS 29.122 [4].

All resource URIs in the clauses below are defined relative to the above API URI.

### 5.37.2 Resources

#### 5.37.2.1 Overview

This clause describes the structure for the Resource URIs as shown in figure 5.37.2.1-1 and the resources and HTTP methods used for the RSLPPIParametersProvisioning API.



Figure 5.37.2.1-1: Resource URI structure of the RSLPPIParametersProvisioning API

Table 5.37.2.1-1 provides an overview of the resources and applicable HTTP methods.

Table 5.37.2.1-1: Resources and methods overview

|  |  |  |  |
| --- | --- | --- | --- |
| Resource name | Resource URI (relative path under API URI) | HTTP method or custom operation | Description(service operation) |
| RSLPPI Parameters Provisionings | /pp | GET | Retrieve all the active RSLPPI Parameters Provisionings managed by the NEF. |
| POST | Request the creation of a new RSLPPI Parameters Provisioning at the NEF. |
| Individual RSLPPI Parameters Provisioning | /pp/{ppId} | GET | Retrieve an existing "Individual RSLPPI Parameters Provisioning" managed by the NEF. |
| PUT | Update an existing "Individual RSLPPI Parameters Provisioning" managed by the NEF. |
| PATCH | Modify an existing "Individual RSLPPI Parameters Provisioning" managed by the NEF. |
| DELETE | Delete an existing "Individual RSLPPI Parameters Provisioning" managed by the NEF. |

#### 5.37.2.2 Resource: RSLPPI Parameters Provisionings

##### 5.37.2.2.1 Introduction

This resource represents the collection of RSLPPI Parameters Provisionings managed by the NEF.

This resource is modelled with the Collection resource archetype (see clause C.2 of 3GPP TS 29.501 [32]).

##### 5.37.2.2.2 Resource Definition

Resource URI: **{apiRoot}/3gpp-rslppi-pp/<apiVersion>/pp**

This resource shall support the resource URI variables defined in table 5.37.2.2.2-1.

Table 5.37.2.2.2-1: Resource URI variables for this resource

|  |  |  |
| --- | --- | --- |
| Name | Data type | Definition |
| apiRoot | string | See clause 5.37.1. |

##### 5.37.2.2.3 Resource Methods

###### 5.37.2.2.3.1 GET

This method enables an AF to request to retrieve all the active "RSLPPI Parameters Provisionings" resources managed by the NEF.

This method shall support the URI query parameters specified in table 5.37.2.2.3.1-1.

Table 5.37.2.2.3.1-1: URI query parameters supported by the GET method on this resource

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Name | Data type | P | Cardinality | Description | Applicability |
| n/a |  |  |  |  |  |

This method shall support the request data structures specified in table 5.37.2.2.3.1-2 and the response data structures and response codes specified in table 5.37.2.2.3.1-3.

Table 5.37.2.2.3.1-2: Data structures supported by the GET Request Body on this resource

|  |  |  |  |
| --- | --- | --- | --- |
| Data type | P | Cardinality | Description |
| n/a |  |  |  |

Table 5.37.2.2.3.1-3: Data structures supported by the GET Response Body on this resource

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Data type | P | Cardinality | Responsecodes | Description |
| array(RslppiPpData) | M | 0..N | 200 OK | Successful case. All the "Individual RSLPPI Parameters Provisioning" resources managed by the NEF are returned.If there are no existing "Individual RSLPPI Parameters Provisioning" resources managed at the NEF, an empty array is returned. |
| n/a |  |  | 307 Temporary Redirect | Temporary redirection.The response shall include a Location header field containing an alternative target URI of the resource located in an alternative NEF.Redirection handling is described in clause 5.2.10 of 3GPP TS 29.122 [4]. |
| n/a |  |  | 308 Permanent Redirect | Permanent redirection.The response shall include a Location header field containing an alternative target URI of the resource located in an alternative NEF.Redirection handling is described in clause 5.2.10 of 3GPP TS 29.122 [4]. |
| NOTE: The mandatory HTTP error status codes for the HTTP GET method listed in table 5.2.6-1 of 3GPP TS 29.122 [4] shall also apply. |

Table 5.37.2.2.3.1-4: Headers supported by the 307 Response Code on this resource

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Name | Data type | P | Cardinality | Description |
| Location | string | M | 1 | Contains an alternative target URI of the resource located in an alternative NEF. |

Table 5.37.2.2.3.1-5: Headers supported by the 308 Response Code on this resource

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Name | Data type | P | Cardinality | Description |
| Location | string | M | 1 | Contains an alternative target URI of the resource located in an alternative NEF. |

###### 5.37.2.2.3.2 POST

This method enables an AF to request the creation of a new RSLPPI Parameters Provisioning at the NEF.

This method shall support the URI query parameters specified in table 5.37.2.2.3.2-1.

Table 5.37.2.2.3.2-1: URI query parameters supported by the POST method on this resource

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Name | Data type | P | Cardinality | Description | Applicability |
| n/a |  |  |  |  |  |

This method shall support the request data structures specified in table 5.37.2.2.3.2-2 and the response data structures and response codes specified in table 5.37.2.2.3.2-3.

Table 5.37.2.2.3.2-2: Data structures supported by the POST Request Body on this resource

|  |  |  |  |
| --- | --- | --- | --- |
| Data type | P | Cardinality | Description |
| RslppiPpData | M | 1 | Contains the representation of the RSLPPI Parameters Provisioning to be created at the NEF. |

Table 5.37.2.2.3.2-3: Data structures supported by the POST Response Body on this resource

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Data type | P | Cardinality | Responsecodes | Description |
| RslppiPpData | M | 1 | 201 Created | Successful case. A representation of the created "Individual RSLPPI Parameters Provisioning" resource is returned in the response body.The URI of the created resource shall be returned in an HTTP "Location" header. |
| NOTE: The mandatory HTTP error status codes for the HTTP POST method listed in table 5.2.6-1 of 3GPP TS 29.122 [4] also apply. |

Table 5.37.2.2.3.2-4: Headers supported by the 201 response code on this resource

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Name | Data type | P | Cardinality | Description |
| Location | string | M | 1 | Contains the URI of the newly created resource, according to the structure:{apiRoot}/3gpp-rslppi-pp/<apiVersion>/pp/{ppId} |

##### 5.37.2.2.4 Resource Custom Operations

There are no resource custom operations defined for this resource in this release of the specification.

#### 5.37.2.3 Resource: Individual RSLPPI Parameters Provisioning

##### 5.37.2.3.1 Introduction

This resource represents an "Individual RSLPPI Parameters Provisioning" resource managed by the NEF.

This resource is modelled with the Document resource archetype (see clause C.2 of 3GPP TS 29.501 [32]).

##### 5.37.2.3.2 Resource Definition

Resource URI: **{apiRoot}/3gpp-rslppi-pp/<apiVersion>/pp/{ppId}**

This resource shall support the resource URI variables defined in table 5.37.2.3.2-1.

Table 5.37.2.3.2-1: Resource URI variables for this resource

|  |  |  |
| --- | --- | --- |
| Name | Data type | Definition |
| apiRoot | string | See clause 5.37.1. |
| ppId | string | Represents the identifier of the "Individual RSLPPI Parameters Provisioning" resource. |

##### 5.37.2.3.3 Resource Methods

###### 5.37.2.3.3.1 GET

This method enables an AF to request to retrieve an existing "Individual RSLPPI Parameters Provisioning" resource at the NEF.

This method shall support the URI query parameters specified in table 5.37.2.3.3.1-1.

Table 5.37.2.3.3.1-1: URI query parameters supported by the GET method on this resource

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Name | Data type | P | Cardinality | Description | Applicability |
| n/a |  |  |  |  |  |

This method shall support the request data structures specified in table 5.37.2.3.3.1-2 and the response data structures and response codes specified in table 5.37.2.3.3.1-3.

Table 5.37.2.3.3.1-2: Data structures supported by the GET Request Body on this resource

|  |  |  |  |
| --- | --- | --- | --- |
| Data type | P | Cardinality | Description |
| n/a |  |  |  |

Table 5.37.2.3.3.1-3: Data structures supported by the GET Response Body on this resource

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Data type | P | Cardinality | Responsecodes | Description |
| RslppiPpData | M | 1 | 200 OK | Successful case. The requested "Individual RSLPPI Parameters Provisioning" resource is returned in the response body. |
| n/a |  |  | 307 Temporary Redirect | Temporary redirection.The response shall include a Location header field containing an alternative target URI of the resource located in an alternative NEF.Redirection handling is described in clause 5.2.10 of 3GPP TS 29.122 [4]. |
| n/a |  |  | 308 Permanent Redirect | Permanent redirection.The response shall include a Location header field containing an alternative target URI of the resource located in an alternative NEF.Redirection handling is described in clause 5.2.10 of 3GPP TS 29.122 [4]. |
| NOTE: The mandatory HTTP error status codes for the HTTP GET method listed in table 5.2.6-1 of 3GPP TS 29.122 [4] shall also apply. |

Table 5.37.2.3.3.1-4: Headers supported by the 307 Response Code on this resource

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Name | Data type | P | Cardinality | Description |
| Location | string | M | 1 | Contains an alternative target URI of the resource located in an alternative NEF. |

Table 5.37.2.3.3.1-5: Headers supported by the 308 Response Code on this resource

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Name | Data type | P | Cardinality | Description |
| Location | string | M | 1 | Contains an alternative target URI of the resource located in an alternative NEF. |

###### 5.37.2.3.3.2 PUT

This method enables an AF to request the update of an existing "Individual RSLPPI Parameters Provisioning" resource at the NEF.

This method shall support the URI query parameters specified in table 5.37.2.3.3.2-1.

Table 5.37.2.3.3.2-1: URI query parameters supported by the PUT method on this resource

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Name | Data type | P | Cardinality | Description | Applicability |
| n/a |  |  |  |  |  |

This method shall support the request data structures specified in table 5.37.2.3.3.2-2 and the response data structures and response codes specified in table 5.37.2.3.3.2-3.

Table 5.37.2.3.3.2-2: Data structures supported by the PUT Request Body on this resource

|  |  |  |  |
| --- | --- | --- | --- |
| Data type | P | Cardinality | Description |
| RslppiPpData | M | 1 | Represents the updated "Individual RSLPPI Parameters Provisioning" resource representation. |

Table 5.37.2.3.3.2-3: Data structures supported by the PUT Response Body on this resource

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Data type | P | Cardinality | Responsecodes | Description |
| RslppiPpData | M | 1 | 200 OK | Successful response. The "Individual RSLPPI Parameters Provisioning" resource is successfully updated and a representation of the updated resource is returned in the response body. |
| n/a |  |  | 204 No Content | Successful response. The "Individual RSLPPI Parameters Provisioning" resource is successfully updated and no content is returned in the response body. |
| n/a |  |  | 307 Temporary Redirect | Temporary redirection.The response shall include a Location header field containing an alternative target URI of the resource located in an alternative NEF.Redirection handling is described in clause 5.2.10 of 3GPP TS 29.122 [4]. |
| n/a |  |  | 308 Permanent Redirect | Permanent redirection.The response shall include a Location header field containing an alternative target URI of the resource located in an alternative NEF.Redirection handling is described in clause 5.2.10 of 3GPP TS 29.122 [4]. |
| NOTE: The mandatory HTTP error status codes for the HTTP PUT method listed in Table 5.2.6-1 of 3GPP TS 29.122 [4] shall also apply. |

Table 5.37.2.3.3.2-4: Headers supported by the 307 Response Code on this resource

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Name | Data type | P | Cardinality | Description |
| Location | string | M | 1 | Contains an alternative URI of the resource located in an alternative NEF. |

Table 5.37.2.3.3.2-5: Headers supported by the 308 Response Code on this resource

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Name | Data type | P | Cardinality | Description |
| Location | string | M | 1 | Contains an alternative URI of the resource located in an alternative NEF. |

###### 5.37.2.3.3.3 PATCH

This method enables an AF to request the modification of an existing "Individual RSLPPI Parameters Provisioning" resource at the NEF.

This method shall support the URI query parameters specified in table 5.37.2.3.3.3-1.

Table 5.37.2.3.3.3-1: URI query parameters supported by the PATCH method on this resource

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Name | Data type | P | Cardinality | Description | Applicability |
| n/a |  |  |  |  |  |

This method shall support the request data structures specified in table 5.37.2.3.3.3-2 and the response data structures and response codes specified in table 5.37.2.3.3.3-3.

Table 5.37.2.3.3.3-2: Data structures supported by the PATCH Request Body on this resource

|  |  |  |  |
| --- | --- | --- | --- |
| Data type | P | Cardinality | Description |
| RslppiPpDataPatch | M | 1 | Represents the requested modifications to the "Individual RSLPPI Parameters Provisioning" resource. |

Table 5.37.2.3.3.3-3: Data structures supported by the PATCH Response Body on this resource

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Data type | P | Cardinality | Responsecodes | Description |
| RslppiPpData | M | 1 | 200 OK | Successful response. The "Individual RSLPPI Parameters Provisioning" resource is successfully modified and a representation of the updated resource is returned in the response body. |
| n/a |  |  | 204 No Content | Successful response. The "Individual RSLPPI Parameters Provisioning" resource is successfully modified and no content is returned in the response body. |
| n/a |  |  | 307 Temporary Redirect | Temporary redirection.The response shall include a Location header field containing an alternative target URI of the resource located in an alternative NEF.Redirection handling is described in clause 5.2.10 of 3GPP TS 29.122 [4]. |
| n/a |  |  | 308 Permanent Redirect | Permanent redirection.The response shall include a Location header field containing an alternative target URI of the resource located in an alternative NEF.Redirection handling is described in clause 5.2.10 of 3GPP TS 29.122 [4]. |
| NOTE: The mandatory HTTP error status codes for the HTTP PATCH method listed in Table 5.2.6-1 of 3GPP TS 29.122 [4] shall also apply. |

Table 5.37.2.3.3.3-4: Headers supported by the 307 Response Code on this resource

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Name | Data type | P | Cardinality | Description |
| Location | string | M | 1 | Contains an alternative URI of the resource located in an alternative NEF. |

Table 5.37.2.3.3.3-5: Headers supported by the 308 Response Code on this resource

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Name | Data type | P | Cardinality | Description |
| Location | string | M | 1 | Contains an alternative URI of the resource located in an alternative NEF. |

###### 5.37.2.3.3.4 DELETE

This method enables an AF to request the deletion of an existing "Individual RSLPPI Parameters Provisioning" resource at the NEF.

This method shall support the URI query parameters specified in table 5.37.2.3.3.4-1.

Table 5.37.2.3.3.4-1: URI query parameters supported by the DELETE method on this resource

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Name | Data type | P | Cardinality | Description | Applicability |
| n/a |  |  |  |  |  |

This method shall support the request data structures specified in table 5.37.2.3.3.4-2 and the response data structures and response codes specified in table 5.37.2.3.3.4-3.

Table 5.37.2.3.3.4-2: Data structures supported by the DELETE Request Body on this resource

|  |  |  |  |
| --- | --- | --- | --- |
| Data type | P | Cardinality | Description |
| n/a |  |  |  |

Table 5.37.2.3.3.4-3: Data structures supported by the DELETE Response Body on this resource

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Data type | P | Cardinality | Responsecodes | Description |
| n/a |  |  | 204 No Content | Successful case. The "Individual RSLPPI Parameters Provisioning" resource is successfully deleted. |
| n/a |  |  | 307 Temporary Redirect | Temporary redirection.The response shall include a Location header field containing an alternative target URI of the resource located in an alternative NEF.Redirection handling is described in clause 5.2.10 of 3GPP TS 29.122 [4]. |
| n/a |  |  | 308 Permanent Redirect | Permanent redirection.The response shall include a Location header field containing an alternative target URI of the resource located in an alternative NEF.Redirection handling is described in clause 5.2.10 of 3GPP TS 29.122 [4]. |
| NOTE: The mandatory HTTP error status codes for the HTTP DELETE method listed in table 5.2.6-1 of 3GPP TS 29.122 [4] shall also apply. |

Table 5.37.2.3.3.4-4: Headers supported by the 307 Response Code on this resource

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Name | Data type | P | Cardinality | Description |
| Location | string | M | 1 | Contains an alternative target URI of the resource located in an alternative NEF. |

Table 5.37.2.3.3.4-5: Headers supported by the 308 Response Code on this resource

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Name | Data type | P | Cardinality | Description |
| Location | string | M | 1 | Contains an alternative target URI of the resource located in an alternative NEF. |

##### 5.37.2.3.4 Resource Custom Operations

There are no resource custom operations defined for this resource in this release of the specification.

### 5.37.3 Custom Operations without associated resources

There are no custom operations without associated resources defined for this API in this release of the specification.

### 5.37.4 Notifications

There are no notifications defined for this API in this release of the specification.

### 5.37.5 Data Model

#### 5.37.5.1 General

This clause specifies the application data model supported by the RSLPPIParametersProvisioning API. Table 5.37.5.1-1 specifies the data types defined for the RSLPPIParametersProvisioning API.

Table 5.37.5.1-1: RSLPPIParametersProvisioning API specific Data Types

|  |  |  |  |
| --- | --- | --- | --- |
| Data type | Clause defined | Description | Applicability |
| RslppiData | 5.37.5.2.4 | Represents RSLPPI parameters data. |  |
| RslppiPpData | 5.37.5.2.2 | Represents RSLPPI Parameters Provisioning data. |  |
| RslppiPpDataPatch | 5.37.5.2.3 | Represents the requested modification to an existing RSLPPI Parameters Provisioning data. |  |

Table 5.37.5.1-2 specifies data types re-used by the RSLPPIParametersProvisioning API from other specifications, including a reference to their respective specifications, and when needed, a short description of their use within the RSLPPIParametersProvisioning API.

Table 5.37.5.1-2: RSLPPIParametersProvisioning API re-used Data Types

|  |  |  |  |
| --- | --- | --- | --- |
| Data type | Reference | Comments | Applicability |
| ExternalGroupId | 3GPP TS 29.122 [4] | Represents the External Group Identifier for a user group. |  |
| Gpsi | 3GPP TS 29.571 [8] | Represents a GPSI. |  |
| MtcProviderInformation | 3GPP TS 29.571 [8] | Represents the MTC provider information. |  |
| Rslppi | 3GPP TS 29.503 [17] | Represents the RSLPPI information. |  |
| SupportedFeatures | 3GPP TS 29.571 [8] | Represents the list of supported feature(s) and used to negotiate the applicability of the optional features. |  |

#### 5.37.5.2 Structured data types

##### 5.37.5.2.1 Introduction

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

##### 5.37.5.2.2 Type: RslppiPpData

Table 5.37.5.2.2-1: Definition of type RslppiPpData

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Attribute name | Data type | P | Cardinality | Description | Applicability |
| afId | string | M | 1 | Contains the identifier of the AF that is sending the request. |  |
| mtcProviderId | MtcProviderInformation | O | 0..1 | Identifies the MTC Service Provider and/or MTC Application. |  |
| rslppiData | RslppiData | C | 0..1 | Contains the RSLPPI data that the AF requests to provision.This attribute shall be present only when the AF requests to provision RSLPPI parameters. |  |
| suppFeat | SupportedFeatures | C | 0..1 | Contains the list of supported features among the ones defined in clause 5.37.6.This attribute shall be present when only feature negotiation needs to take place. |  |

##### 5.37.5.2.3 Type: RslppiPpDataPatch

Table 5.37.5.2.3-1: Definition of type RslppiPpDataPatch

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Attribute name | Data type | P | Cardinality | Description | Applicability |
| rslppiData | RslppiData | O | 0..1 | Contains the modified RSLPPI data that the AF requests to provision. |  |

##### 5.37.5.2.4 Type: RslppiData

Table 5.37.5.2.4-1: Definition of type RslppiData

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Attribute name | Data type | P | Cardinality | Description | Applicability |
| extGroupId | ExternalGroupId | C | 0..1 | Represents the external group identifier of the targeted group.(NOTE) |  |
| gpsi | Gpsi | C | 0..1 | Represents the GPSI of the targeted UE.(NOTE) |  |
| rslppi | Rslppi | M | 1 | Contains the RSLPPI parameters. |  |
| NOTE: These attributes are mutually exclusive. Either one of them shall be present. |

#### 5.37.5.3 Simple data types and enumerations

##### 5.37.5.3.1 Introduction

This clause defines simple data types and enumerations that can be referenced from data structures defined in the previous clauses.

##### 5.37.5.3.2 Simple data types

The simple data types defined in table 5.37.5.3.2-1 shall be supported.

Table 5.37.5.3.2-1: Simple data types

|  |  |  |  |
| --- | --- | --- | --- |
| Type Name | Type Definition | Description | Applicability |
|  |  |  |  |

#### 5.37.5.4 Data types describing alternative data types or combinations of data types

There are no custom operations without associated resources defined for this API in this release of the specification.

### 5.37.6 Used Features

The table below defines the features applicable to the RSLPPIParametersProvisioning API. Those features are negotiated as described in clause 5.2.7 of 3GPP TS 29.122 [4].

Table 5.37.6-1: Supported Features

|  |  |  |
| --- | --- | --- |
| Feature number | Feature Name | Description |
|  |  |  |

### 5.37.7 Error handling

#### 5.37.7.1 General

For the SLPPIParametersProvisioning API, HTTP error responses shall be supported as specified in clause 5.2.6 of 3GPP TS 29.122 [4]. Protocol errors and application errors specified in clause 5.2.6 of 3GPP TS 29.122 [4] shall be supported for the HTTP status codes specified in table 5.2.6-1 of 3GPP TS 29.122 [4].

In addition, the requirements in the following clauses are applicable for the SLPPIParametersProvisioningAPI.

#### 5.37.7.2 Protocol Errors

In this Release of the specification, there are no additional protocol errors applicable for the RSLPPIParametersProvisioning API.

#### 5.37.7.3 Application Errors

The application errors defined for the RSLPPIParametersProvisioning API are listed in table 5.37.7.3-1.

Table 5.37.7.3-1: Application errors

|  |  |  |  |
| --- | --- | --- | --- |
| **Application Error** | **HTTP status code** | **Description** | **Applicability** |
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\* \* \* Next Change \* \* \* \*

# A.31 RSLPPIParametersProvisioning API

openapi: 3.0.0

info:

 title: 3gpp-rslppi-pp

 version: 1.0.0

 description: |

 API for RSLPPI Parameters Provisioning.

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externalDocs:

 description: >

 3GPP TS 29.522 V18.5.0; 5G System; Network Exposure Function Northbound APIs.

 url: 'https://www.3gpp.org/ftp/Specs/archive/29\_series/29.522/'

servers:

 - url: '{apiRoot}/3gpp-rslppi-pp/v1'

 variables:

 apiRoot:

 default: https://example.com

 description: apiRoot as defined in clause 5.2.4 of 3GPP TS 29.122.

security:

 - {}

 - oAuth2ClientCredentials: []

paths:

 /pp:

 get:

 summary: Request to retrieve all the active RSLPPI Parameters Provisioning resources at the NEF.

 operationId: GetRslppiParamsProvisionings

 tags:

 - RSLPPI Parameters Provisionings (Collection)

 responses:

 '200':

 description: >

 OK. All the Individual RSLPPI Parameters Provisioning resources managed by the NEF are

 returned.

 If there are no existing Individual RSLPPI Parameters Provisioning resources managed at

 the NEF, an empty array is returned.

 content:

 application/json:

 schema:

 type: array

 items:

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

 minItems: 0

 '307':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/307'

 '308':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/308'

 '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: Request the creation of a new RSLPPI Parameters Provisioning.

 tags:

 - RSLPPI Parameters Provisioning (Collection)

 operationId: CreateRslppiParamsProvisioning

 requestBody:

 description: >

 Representation of the new RSLPPI Parameters Provisioning to be created at the NEF.

 required: true

 content:

 application/json:

 schema:

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

 responses:

 '201':

 description: >

 Created. A representation of the created Individual RSLPPI Parameters Provisioning

 resource is returned in the response body.

 content:

 application/json:

 schema:

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

 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'

 /pp/{ppId}:

 parameters:

 - name: ppId

 in: path

 description: >

 Represents the identifier of the Individual RSLPPI Parameters Provisioning resource.

 required: true

 schema:

 type: string

 get:

 summary: Request to retrieve an existing Individual RSLPPI Parameters Provisioning resource.

 operationId: GetIndRslppiParamsProvisioning

 tags:

 - Individual RSLPPI Parameters Provisioning (Document)

 responses:

 '200':

 description: >

 OK. Successful retrieval of the requested Individual RSLPPI Parameters Provisioning.

 resource.

 content:

 application/json:

 schema:

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

 '307':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/307'

 '308':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/308'

 '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'

 put:

 summary: Request the update of an existing Individual RSLPPI Parameters Provisioning resource.

 tags:

 - Individual RSLPPI Parameters Provisioning (Document)

 operationId: UpdateIndRslppiParamsProvisioning

 requestBody:

 description: >

 Represents the updated Individual RSLPPI Parameters Provisioning resource representation.

 required: true

 content:

 application/json:

 schema:

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

 responses:

 '200':

 description: >

 OK. The Individual RSLPPI Parameters Provisioning resource is successfully updated and a

 representation of the updated resource is returned in the response body.

 content:

 application/json:

 schema:

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

 '204':

 description: >

 No Content. The Individual RSLPPI Parameters Provisioning resource is successfully

 updated and no content is returned in the response body.

 '307':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/307'

 '308':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/308'

 '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'

 patch:

 summary: Request the modification of an existing Individual RSLPPI Parameters Provisioning resource.

 tags:

 - Individual RSLPPI Parameters Provisioning (Document)

 operationId: ModifyIndRslppiParamsProvisioning

 requestBody:

 description: >

 Contains the parameters to request the modification of the Individual RSLPPI Parameters

 Provisioning resource.

 required: true

 content:

 application/merge-patch+json:

 schema:

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

 responses:

 '200':

 description: >

 OK. The Individual RSLPPI Parameters Provisioning resource is successfully modified and

 A representation of the updated resource is returned in the response body.

 content:

 application/json:

 schema:

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

 '204':

 description: >

 No Content. The Individual RSLPPI Parameters Provisioning resource is successfully

 modified and no content is returned in the response body.

 '307':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/307'

 '308':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/308'

 '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: Request the deletion of an existing Individual RSLPPI Parameters Provisioning resource.

 tags:

 - Individual RSLPPI Parameters Provisioning (Document)

 operationId: DeleteIndRslppiParamsProvisioning

 responses:

 '204':

 description: >

 No Content. The Individual RSLPPI Parameters Provisioning resource is successfully

 deleted.

 '307':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/307'

 '308':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/308'

 '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:

#

# STRUCTURED DATA TYPES

#

 RslppiPpData:

 description: Represents the RSLPPI Parameters Provisioning data.

 type: object

 properties:

 afId:

 type: string

 mtcProviderId:

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

 rslppiData:

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

 suppFeat:

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

 required:

 - afId

 RslppiPpDataPatch:

 description: >

 Represents the requested modifications to an existing RSLPPI Parameters Provisioning data.

 type: object

 properties:

 rslppiData:

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

 RslppiData:

 description: Represents RSLPPI Parameters data.

 type: object

 properties:

 extGroupId:

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

 gpsi:

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

 rslppi:

 $ref: 'TS29503\_Nudm\_PP.yaml#/components/schemas/Rslppi'

 required:

 - rslppi

 oneOf:

 - required: [ extGroupId ]

 - required: [ gpsi ]

#

# SIMPLE DATA TYPES

#

#

# ENUMERATIONS

#

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