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| Technical Specification | |
| 3rd Generation Partnership Project;  Technical Specification Group Core Network and Terminals;  5G System; Usage of the Unified Data Repository services for Subscription Data;  Stage 3  (Release 18) | |
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# Foreword

This Technical Specification has been produced by the 3rd Generation Partnership Project (3GPP).

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y the second digit is incremented for all changes of substance, i.e. technical enhancements, corrections, updates, etc.

z the third digit is incremented when editorial only changes have been incorporated in the document.

In the present document, modal verbs have the following meanings:

**shall** indicates a mandatory requirement to do something

**shall not** indicates an interdiction (prohibition) to do something

The constructions "shall" and "shall not" are confined to the context of normative provisions, and do not appear in Technical Reports.

The constructions "must" and "must not" are not used as substitutes for "shall" and "shall not". Their use is avoided insofar as possible, and they are not used in a normative context except in a direct citation from an external, referenced, non-3GPP document, or so as to maintain continuity of style when extending or modifying the provisions of such a referenced document.

**should** indicates a recommendation to do something

**should not** indicates a recommendation not to do something

**may** indicates permission to do something

**need not** indicates permission not to do something

The construction "may not" is ambiguous and is not used in normative elements. The unambiguous constructions "might not" or "shall not" are used instead, depending upon the meaning intended.

**can** indicates that something is possible

**cannot** indicates that something is impossible

The constructions "can" and "cannot" are not substitutes for "may" and "need not".

**will** indicates that something is certain or expected to happen as a result of action taken by an agency the behaviour of which is outside the scope of the present document

**will not** indicates that something is certain or expected not to happen as a result of action taken by an agency the behaviour of which is outside the scope of the present document

**might** indicates a likelihood that something will happen as a result of action taken by some agency the behaviour of which is outside the scope of the present document

**might not** indicates a likelihood that something will not happen as a result of action taken by some agency the behaviour of which is outside the scope of the present document

In addition:

**is** (or any other verb in the indicative mood) indicates a statement of fact

**is not** (or any other negative verb in the indicative mood) indicates a statement of fact

The constructions "is" and "is not" do not indicate requirements.

# 1 Scope

The present document specifies the usage of the Unified Data Repository services for subscription data. It provides the resource definition and data model for subscription data used over the Nudr Service Based Interface. The protocol definition for Nudr Service Based Interface which is specific to subscription data is also specified in the present document.

The stage 3 protocol definition for Nudr Service Based Interface which is common for subscription data, policy data, structure data and application data for exposure is specified in 3GPP TS 29.504 [2].

# 2 References

The following documents contain provisions which, through reference in this text, constitute provisions of the present document.

- References are either specific (identified by date of publication, edition number, version number, etc.) or non‑specific.

- For a specific reference, subsequent revisions do not apply.

- For a non-specific reference, the latest version applies. In the case of a reference to a 3GPP document (including a GSM document), a non-specific reference implicitly refers to the latest version of that document *in the same Release as the present document*.

[1] 3GPP TR 21.905: "Vocabulary for 3GPP Specifications".

[2] 3GPP TS 29.504: "5G System; Unified Data Repository Services; Stage 3".

[3] 3GPP TS 29.571: "5G System; Common Data Types for Service Based Interfaces Stage 3".

[4] 3GPP TS 23.501: "System Architecture for the 5G System; Stage 2".

[5] 3GPP TS 23.003: "Numbering, addressing and identification".

[6] 3GPP TS 29.503: "Unified Data Management Services".

[7] 3GPP TS 29.501: "5G System; Principles and Guidelines for Services Definition; Stage 3".

[8] 3GPP TS 29.500: "5G System; Technical Realization of Service Based Architecture; Stage 3".

[9] 3GPP TS 33.501: "Security architecture and procedures for 5G system".

[10] 3GPP TS 33.102: "3G Security; Security architecture".

[11] 3GPP TS 35.206: "An example algorithm set for the 3GPP authentication and key generation functions f1, f1\*, f2, f3, f4, f5 and f5\*; Document 2: Algorithm specification".

[12] 3GPP TS 35.231: "A second example algorithm set for the 3GPP authentication and key generation functions f1, f1\*, f2, f3, f4, f5 and f5\*; Document 1: Algorithm specification ".

[13] 3GPP TS 29.518: "5G System; Access and Mobility Management Services; Stage 3".

[14] 3GPP TR 21.900: "Technical Specification Group working methods".

[15] 3GPP TS 29.509: "Authentication Server Services; Stage 3".

[16] IETF RFC 3986: "Uniform Resource Identifier (URI): Generic Syntax".

[17] 3GPP TS 29.519: "5G System; Usage of the Unified Data Repository service for Policy Data, Application Data and Structured Data for Exposure; Stage 3".

[18] 3GPP TS 23.316: "Wireless and wireline convergence access support for the 5G System (5GS); Stage 2".

[19] 3GPP TS 29.510: "Network Function Repository Services; Stage 3".

[20] 3GPP TS 29.563: "Home Subscriber Server (HSS) services for interworking with Unified Data Management (UDM); Stage 3".

[21] 3GPP TS 29.508: "5G System; Session Management Event Exposure Service; Stage 3".

# 3 Definitions and abbreviations

## 3.1 Definitions

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

**pointer of attribute:** The pointer of the attribute identifies the location of the attribute in the JSON object. The pointer of the attribute is a string with one or more segments, each segment is the name of an attribute within that JSON object, different segments are separated with a "/".

## 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].

5GC 5G Core

AMF Access and Mobility Management Function

DNN Data Network Name

GPSI Generic Public Subscription Identifier

JSON Javascript Object Notation

SMF Session Management Function

SMS Short Message Service

SMSF SMS Function

SUPI Subscription Permanent Identifier

UDM Unified Data Management

UDR Unified Data Repository

# 4 Overview

The resources, data model and usage defined in the present document are used by the 5GC NFs (e.g. UDM) to access the subscription data via the Unified Data Repository services specified in 3GPP TS 29.504 [2].

# 5 Usage of Nudr\_DataRepository Service

## 5.1 Introduction

The following clauses specify the usage of Nudr\_DataRepository service for subscription data. The principles specified in 3GPP TS 29.504 [2] are followed unless explicitly specified otherwise in the following clauses.

## 5.2 Resources

### 5.2.1 Overview



Figure 5.2.1-1: Resource URI sub-level structure for subscription data



Figure 5.2.1-2: Resource URI sub-level structure for subscription data (cont.)



Figure 5.2.1-3: Resource URI sub-level structure for subscription data (cont.)

Table 5.2.1-1 provides an overview of the resources, applicable HTTP methods and whether subscribe (implicit and explicit) to be notified about data change applies.

Table 5.2.1-1: Resources and methods overview

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Resource name | Resource URI | Subscribe to be notified about data change supported | HTTP method | Description |
| AuthenticationSubscription  (Document) | /subscription-data/{ueId}/authentication-data/authentication-subscription | N | GET | Retrieve a UE's authentication subscription data |
| PATCH | Update a UE's authentication subscription data  Updates shall be limited to the sequenceNumber attribute. Attempts to patch any other attribute shall be rejected by the UDR. |
| UeUpdateConfirmation | /subscription-data/{ueId}/ue-update-confirmation-data | Y | GET | Retrieve the complete UE-acknowledgement info |
| AuthenticationSoR  (Document) | /subscription-data/{ueId}/ue-update-confirmation-data/sor-data | Y | PUT | Store UE's SOR acknowledgement information (SoR-XMAC-IUE), "ME support of SOR-CMCI" "ME support of SOR-SNPN-SI" and, "ME support of SOR-SNPN-SI-LS". |
| GET | Retrieve UE's SoR acknowledgement information, "ME support of SOR-CMCI", "ME support of SOR-SNPN-SI" and, "ME support of SOR-SNPN-SI-LS". |
| PATCH | Update "ME support of SOR-CMCI" and "ME support of SOR-SNPN-SI"and, "ME support of SOR-SNPN-SI-LS". |
| AuthenticationUPU  (Document) | /subscription-data/{ueId}/ue-update-confirmation-data/upu-data | Y | PUT | Store UE Parameter Update acknowledgement information (UPU-XMAC-IUE) |
| GET | Retrieve UE Parameter Update acknowledgement information |
| SubscribedSNSSAIs  (Document) | /subscription-data/{ueId}/ue-update-confirmation-data/subscribed-snssais | Y | PUT | Store UE-acknowledgement info for change of subscribed S-NSSAIs |
| GET | Retrieve UE-acknowledgement info for change of subscribed S-NSSAIs |
| SubscribedCAG  (Document) | /subscription-data/{ueId}/ue-update-confirmation-data/subscribed-cag | Y | PUT | Store UE-acknowledgement info for change of subscribed CAG |
| GET | Retrieve UE-acknowledgement info for change of subscribed CAG |
| AuthenticationStatus  (Document) | /subscription-data/{ueId}/authentication-data/authentication-status | N | PUT | Store a UE's authentication status |
| GET | Retrieve a UE's authentication status |
| DELETE | Delete a UE's authentication status |
| IndividualAuthenticationStatus  (Document) | /subscription-data/{ueId}/authentication-data/authentication-status/{servingNetworkName} | Y | PUT | When the feature "PerUePerSnAuthStatus" is supported, store a UE's Individual authentication status |
| GET | When the feature "PerUePerSnAuthStatus" is supported, retrieve a UE's Individual authentication status |
| DELETE | When the feature "PerUePerSnAuthStatus" is supported, delete a UE's Individual authentication status |
| ProvisionedData  (Document) | /subscription-data/{ueId}/{servingPlmnId}/provisioned-data | N | GET | Retrieve the UE's subscribed Provisioned Data |
| AccessAndMobilitySubscriptionData  (Document) | /subscription-data/{ueId}/{servingPlmnId}/provisioned-data/am-data | Y | GET | Retrieve the UE's subscribed Access and Mobility Data |
| SmfSelectionSubscriptionData  (Document) | /subscription-data/{ueId}/{servingPlmnId}/provisioned-data/smf-selection-subscription-data | Y | GET | Retrieve the UE's subscribed SMF Selection Data |
| SessionManagementSubscriptionData  (Document) | /subscription-data/{ueId}/{servingPlmnId}/provisioned-data/sm-data | Y | GET | Retrieve the UE's subscribed SM Subscription Data |
| ContextData  (Document) | /subscription-data/{ueId}/context-data | N | GET | Retrieve the UE's context Data |
| Amf3GppAccessRegistration  (Document) | /subscription-data/{ueId}/context-data/amf-3gpp-access | Y | PUT | Create and Update the AMF registration for 3GPP access |
| PATCH | Modify the AMF registration for 3GPP access |
| GET | Retrieve the AMF registration information for 3GPP access |
| AmfNon3GppAccessRegistration  (Document) | /subscription-data/{ueId}/context-data/amf-non-3gpp-access | Y | PUT | Update the AMF registration for non 3GPP access |
| PATCH | Modify the AMF registration for non 3GPP access |
| GET | Retrieve the AMF registration information for non 3GPP access |
| SmfRegistrations  (Store) | /subscription-data/{ueId}/context-data/smf-registrations | Y | GET | Retrieve the list of the SMF registrations |
| IndividualSmfRegistration  (Document) | /subscription-data/{ueId}/context-data /smf-registrations/{pduSessionId} | Y | PUT | Store an individual SMF registration identified by PDU Session Id |
| DELETE | Delete an individual SMF registration |
| GET | Retrieve individual SMF registration |
| PATCH | Modify the individual SMF registration |
| OperatorSpecificData  (Document) | /subscription-data/{ueId}/operator-specific-data | Y | GET | retrieve the operator specific subscription data of a UE |
| PATCH | modify the operator specific subscription data of a UE |
| PUT | create/update the operator specific subscription data of a UE |
| DELETE | delete the operator specific subscription data of a UE |
| OperatorDeterminedBarringData  (Document) | /subscription-data/{ueId}/operator-determined-barring-data | Y | GET | Retrieve the UE's Operator Determined Barring |
| SMSManagementSubscriptionData  (Document) | /subscription-data/{ueId}/{servingPlmnId}/provisioned-data/sms-mng-data | Y | GET | Retrieve the UE's subscribed SMS management subscription data. |
| Smsf3GppAccessRegistration  (Document) | /subscription-data/{ueId}/context-data /smsf-3gpp-access | Y | PUT | Create or Update the SMSF registration |
| DELETE | Delete the SMSF registration for 3GPP access |
| GET | Retrieve the SMSF registration information |
| SmsfNon3GppAccessRegistration  (Document) | /subscription-data/{ueId}/context-data /smsf-non-3gpp-access | Y | PUT | Create or Update the SMSF registration for non 3GPP access |
| DELETE | Delete the SMSF registration for non 3GPP access |
| GET | Retrieve the SMSF registration information for non 3GPP access |
| IpSmGwRegistration  (Document) | /subscription-data/{ueId}/context-data/ip-sm-gw | Y | PUT | Create or Update the IP-SM-GW registration |
| DELETE | Delete the IP-SM-GW registration |
| PATCH | Modify the IP-SM-GW registration |
| GET | Retrieve the IP-SM-GW registration information |
| MessageWaitingData  (Document) | /subscription-data/{ueId}/context-data/mwd | Y | PUT | Create or Update the SMS Message Waiting Data |
| DELETE | Delete the SMS Message Waiting Data |
| PATCH | Modify the SMS Message Waiting Data |
| GET | Retrieve the SMS Message Waiting Data |
| SdmSubscriptions  (Collection) | /subscription-data/{ueId}/context-data/sdm-subscriptions | N | GET | Retrieve SDM subscriptions |
| POST | Create an individual SDM subscription |
| IndividualSdmSubscription  (Document) | /subscription-data/{ueId}/context-data/sdm-subscriptions/{subsId} | N | PUT | Update an individual SDM subscription |
| DELETE | Delete an individual SDM subscription |
| PATCH | Update an individual SDM Subscription |
| GET | Retrieve an individual SDM subscription |
| HssSdmSubscriptionInfo  (Document) | /subscription-data/{ueId}/context-data/sdm-subscriptions/{subsId}/hss-sdm-subscriptions | N | PUT | Store information related to the Hss-SDM-Subscriptions |
| DELETE | Delete the Hss-SDM-subscriptions |
| GET | Retrieve Hss-SDM-subscriptions |
| PATCH | Update Hss-SDM-subscriptions |
| EeSubscriptions  (Collection) | /subscription-data/{ueId}/context-data/ee-subscriptions | N | GET | Retrieve EE subscriptions |
| POST | Create an EE subscription |
| IndividualEeSubscription  (Document) | /subscription-data/{ueId}/context-data/ee-subscriptions/{subsId} | N | PUT | Update an individual EE subscription |
| DELETE | Delete an individual EE subscription |
| PATCH | Update an individual EE subscription |
| GET | Retrieve an individual EE subscription |
| AmfSubscriptionInfo  (Document) | /subscription-data/{ueId}/context-data/ee-subscriptions/{subsId}/amf-subscriptions | N | PUT | Store information related to the Amf-EE-Subscription response |
| DELETE | Delete the Amf-EE-subscriptions |
| GET | Retrieve AMF-subscriptions |
| PATCH | Update AMF-subscriptions |
| SmfSubscriptionInfo  (Document) | /subscription-data/{ueId}/context-data/ee-subscriptions/{subsId}/smf-subscriptions | N | PUT | Store information related to the received Smf-EE-Subscription response |
| DELETE | Delete the Smf-EE-subscriptions |
| GET | Retrieve SMF-subscriptions |
| PATCH | Update SMF-subscriptions |
| HssSubscriptionInfo  (Document) | /subscription-data/{ueId}/context-data/ee-subscriptions/{subsId}/hss-subscriptions | N | PUT | Store information related to the Hss-EE-Subscriptions |
| DELETE | Delete the Hss-EE-subscriptions |
| GET | Retrieve Hss-EE-subscriptions |
| PATCH | Update Hss-EE-subscriptions |
| EeProfileData  (Document) | /subscription-data/{ueId}/ee-profile-data | Y | GET | Retrieve the UE's subscribed EE profile data. |
| ProvisionedParamenterData  (Document) | /subscription-data/{ueId}/pp-data | y | PATCH | Update of provisioned parameters. |
| GET | Retrieves the UE's provisioned parameters. |
| PpProfileData  (Document) | /subscription-data/{ueId}/pp-profile-data | Y | GET | Retrieve the UE's subscribed PP profile data. |
| ProvisionedParameterDataEntries  (Store) | /subscription-data/{ueId}/pp-data-store | Y | GET | Retrieve a Provisioned Parameter Data of multiple Entries |
| ProvisionedParameterDataEntry  (Document) | /subscription-data/{ueId}/pp-data-store/{afInstanceId} | Y | PUT | Create a Provisioned Parameter Data Entry |
| DELETE | Delete a Provisioned Parameter Data Entry |
| GET | Retrieve a Provisioned Parameter Data Entry |
| SMSSubscriptionData  (Document) | /subscription-data/{ueId}/{servingPlmnId}/provisioned-data/sms-data | Y | GET | Retrieve the UE's subscribed SMS subscription data. |
| SubscriptionDataSubscriptions  (Collection) | /subscription-data/subs-to-notify | N | GET | Retrieve existing subscriptions |
| POST | Create a subscription, i.e. subscribe a node to receive notification for change of data |
| DELETE | Deletes multiple subscriptions for a given UE. |
| IndividualSubscriptionDataSubscription  (Document) | /subscription-data/subs-to-notify/{subsId} | N | DELETE | Delete the subscription identified by {subsId}, i.e. unsubscribe a node to receive notification for change of data |
| PATCH | Update an individual Subscription to notification |
| GET | Retrieve an individual Subscription to notification |
| EeGroupSubscriptions  (Collection) | /subscription-data/group-data/{ueGroupId}/ee-subscriptions | N | GET | Retrieve EE subscriptions for groups of UEs |
| POST | Create an EE subscription for groups of UEs |
| IndividualEeGroupSubscription  (Document) | /subscription-data/group-data/{ueGroupId}/ee-subscriptions/{subsId} | N | PUT | Update an individual EE subscription for a group of UEs |
| DELETE | Delete an individual EE subscription for a group of UEs |
| PATCH | Update an individual EE subscription for a group of UEs |
| GET | Retrieve an individual EE subscription for a group of UEs |
| AmfGroupSubscriptionInfo  (Document) | /subscription-data/group-data/{ueGroupId}/ee-subscriptions/{subsId}/amf-subscriptions | N | PUT | Store information related to the Amf-EE-Subscription response for a group of UEs |
| DELETE | Delete the Amf-EE-subscriptions for a group of UEs |
| GET | Retrieve AMF-subscriptions for a group of UEs |
| PATCH | Update AMF-subscriptions for a group of UEs |
| SmfGroupSubscriptionInfo  (Document) | /subscription-data/group-data/{ueGroupId}/ee-subscriptions/{subsId}/smf-subscriptions | N | PUT | Store information related to the received Smf-EE-Subscription response for a group of UEs |
| DELETE | Delete the Smf-EE-subscriptions for a group of UEs |
| GET | Retrieve SMF-subscriptions for a group of UEs |
| PATCH | Update SMF-subscriptions for a group of UEs |
| HssGroupSubscriptionInfo  (Document) | /subscription-data/group-data/{ueGroupId}/ee-subscriptions/{subsId}/hss-subscriptions | N | PUT | Store information related to the Hss-EE-Subscriptions for a group of UEs |
| DELETE | Delete the Hss-EE-subscriptions for a group of UEs |
| GET | Retrieve Hss-EE-subscriptions for a group of UEs |
| PATCH | Update Hss-EE-subscriptions for a group of UEs |
| EeGroupProfileData  (Document) | /subscription-data/group-data/{ueGroupId}/ee-profile-data | Y | GET | Retrieve the subscribed EE profile data for a group of UEs. |
| TraceData  (Document) | /subscription-data/{ueId}/{servingPlmnId}/provisioned-data/trace-data | Y | GET | Retrieve the UE's trace configuration data |
| IdentityData  (Document) | /subscription-data/{ueId}/identity-data | Y | GET | Retrieve identity data that corresponds to the provided ueId |
| SharedData (Collection) | /subscription-data/shared-data | N | GET | Retrieve shared data |
| IndividualSharedData (Document) | /subscription-data/shared-data/{sharedDataId} | Y | GET | Retrieve the individual Shared Data |
| GroupIdentifiers  (Document) | /subscription-data/group-data/group-identifiers | Y | GET | Retrieve group identifiers and the UE identifiers belong to the group identifiers. |
| 5GvnGroups  (Store) | /subscription-data/group-data/5g-vn-groups | Y | GET | Retrieve 5G VN Groups |
| Individual5GvnGroup  (Document) | /subscription-data/group-data/5g-vn-groups/{externalGroupId} | Y | PUT | Create a 5G VN Group |
| PATCH | Update a 5G VN Group |
| DELETE | Delete a 5G VN Group |
| GET | Retrieve a 5G VN Group |
| 5GVnGroupsInternal  (Document) | /subscription-data/group-data/5g-vn-groups/internal | Y | GET | Retrieve 5G VN Group Data based on Internal Group Identifier(s) |
| Pp5gVnGroupProfileData  (Document) | /subscription-data/group-data/5g-vn-groups/pp-profile-data | Y | GET | Retrieve the UE's subscribed PP profile data for accessing 5G VN Groups service operations. |
| LcsPrivacySubscriptionData  (Document) | /subscription-data/{ueId}/lcs-privacy-data | Y | GET | Retrieve the UE's subscribed LCS privacy Subscription Data |
| LcsMobileOriginatedSubscriptionData  (Document) | /subscription-data/{ueId}/lcs-mo-data | Y | GET | Retrieve the UE's subscribed LCS Mobile Originated Subscription Data |
| LcsSubscriptionData  (Document) | /subscription-data/{ueId}/lcs-subscription-data | Y | GET | Retrieve the UE's LCS Subscription Data |
| NiddAuthorizationData  (Document) | /subscription-data/{ueId}/nidd-authorization-data | Y | GET | Retrieve the UE's NIDD Authorization Data |
| ServiceSpecificAuthorizationData  (Document) | /subscription-data/{ueId}/service-specific-authorization-data/{serviceType} | Y | GET | Retrieve the UE's Authorization Data for a specific service |
| CoverageRestrictionData  (Document) | /subscription-data/{ueId}/coverage-restriction-data | Y | GET | Retrieve the UE's subscribed enhanced Coverage Restriction Data |
| Location  (Document) | /subscription-data/{ueId}/context-data/location | Y | GET | Retrieve the UE's Location Information |
| V2xSubscriptionData  (Document) | /subscription-data/{ueId}/v2x-data | Y | GET | Retrieve the UE's subscribed V2X Data |
| ProseSubscriptionData  (Document) | /subscription-data/{ueId}/prose-data | Y | GET | Retrieve the UE's subscribed ProSe Service Data |
| 5MBSSubscriptionData  (Document) | /subscription-data/{ueId}/5mbs-data | Y | GET | Retrieve the UE's 5MBS Subscription Data |
| UcSubscriptionData  (Document) | /subscription-data/{ueId}/uc-data | Y | GET | Retrieve the UE's User Consent Data |
| LcsBroadcastAssistanceSubscriptionData  (Document) | /subscription-data/{ueId}/{servingPlmnId}/provisioned-data/lcs-bca-data | Y | GET | Retrieve the UE's subscribed LCS Broadcast Assistance subscription data |
| NiddAuthorizations  (Document) | /subscription-data/{ueId}/context-data/nidd-authorizations | Y | PUT | Store information related to the NIDD Authorization |
| DELETE | Delete the NIDD Authorizations |
| GET | Retrieve NIDD Authorizations |
| PATCH | Update a specific NIDD Authorization |
| UeSubscriptionData  (Document) | /subscription-data/{ueId} | N | GET | Retrieve data set(s) from the UE's subscription data |
| SpecificServiceAuthorizations  (Document) | /subscription-data/{ueId}/context-data/service-specific-authorizations/{serviceType} | Y | PUT | Store information related to the service specific Authorization |
| DELETE | Delete the service specific Authorization |
| GET | Retrieve service specific Authorizations |
| PATCH | Update a service specific Authorization |
| RoamingInfo  (Document) | /subscription-data/{ueId}/context-data/roaming-information | Y | GET | Retrieve the last 5GC/EPC common Roaming Information in the 3GPP access |
| PUT | Update or create the last 5GC/EPC common Roaming Information in the 3GPP access |
| PeiInfo  (Document) | /subscription-data/{ueId}/context-data/ pei-info | Y | GET | Retrieve the PEI of the 5GC/EPC domains |
| PUT | Update or create the PEI of the 5GC/EPC domains |
| TimeSyncSubscriptionData  (Document) | /subscription-data/{ueId}/time-sync-data | N | GET | Retrieve the UE's Time Synchronization Subscription Data |
| 5GMbsGroup  (Store) | /subscription-data/group-data/mbs-group-membership | Y | GET | Retrieve 5G MBS Group |
| Individual5GmbsGroup  (Document) | /subscription-data/group-data/mbs-group-membership/{externalGroupId} | Y | PUT | Create a 5G MBS Group |
| PATCH | Update a 5G MBS Group |
| DELETE | Delete a 5G MBS Group |
| GET | Retrieve a 5G MBS Group |
| 5GMbsGroupsInternal  (Document) | /subscription-data/group-data/mbs-group-membership/internal | Y | GET | Retrieve 5G MBS Group Data based on Internal Group Identifier(s) |
| Pp5gMbsGroupProfileData  (Document) | /subscription-data/group-data/mbs-group-membership/pp-profile-data | Y | GET | Retrieve the UE's subscribed PP profile data for accessing 5G MBS Group service operations. |
| RangingSlPosSubscriptionData  (Document) | /subscription-data/{ueId}/ranging-slpos-data | Y | GET | Retrieve the UE's subscribed Ranging and Sidelink Positioning Data |
| A2xSubscriptionData  (Document) | /subscription-data/{ueId}/a2x-data | Y | GET | Retrieve the UE's subscribed A2X Data |

### 5.2.2 Resource: AuthenticationSubscription

#### 5.2.2.1 Description

This resource is modelled with the Document resource archetype (see clause C.1 of 3GPP TS 29.501 [7]).

NOTE 1: This resource contains security-sensitive attributes, such as the long-term key of the UE (see "encPermanentKey" attribute of the AuthenticationSubscription data type in clause 5.4.2.2). Read/write access can be authorized by means of OAuth2.

NOTE 2: Although these security-sensitive attributes are stored in an encrypted form in the UDR, operators can consider its storage separately from other types of subscription data. How to achieve this in a secure way is implementation-specific; a description of a typical mechanism can be found in the informative Annex X in 3GPP TS 29.500 [8].

#### 5.2.2.2 Resource Definition

Resource URI: {apiRoot}/nudr-dr/<apiVersion>/subscription-data/{ueId}/authentication-data/authentication-subscription

This resource shall support the resource URI variables defined in table 5.2.2.2-1.

Table 5.2.2.2-1: Resource URI variables for this resource

|  |  |
| --- | --- |
| Name | Definition |
| apiRoot | See 3GPP TS 29.504 [2] clause 6.1.1 |
| ueId | Represents the Subscription Identifier of the UE.  It may be the SUPI (see 3GPP TS 23.501 [4], clause 5.9.2) of the UE or a pseudonym in SUPI format (e.g. the GLI or GCI of the UE; see 3GPP TS 23.316 [18], clauses 4.7.3 and 4.7.4).   Pattern: See pattern of type Supi in 3GPP TS 29.571 [3]. |

#### 5.2.2.3 Resource Standard Methods

##### 5.2.2.3.1 GET

This method shall support the URI query parameters specified in table 5.2.2.3.1-1.

Table 5.2.2.3.1-1: URI query parameters supported by the GET method on this resource

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Name | Data type | P | Cardinality | Description |
| supported-features | SupportedFeatures | O | 0..1 | see 3GPP TS 29.500 [8] clause 6.6 |

This method shall support the request data structures specified in table 5.2.2.3.1-2 and the response data structures and response codes specified in table 5.2.2.3.1-3.

Table 5.2.2.3.1-2: Data structures supported by the GET Request Body on this resource

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

Table 5.2.2.3.1-3: Data structures supported by the GET Response Body on this resource

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Data type | P | Cardinality | Response  codes | Description |
| AuthenticationSubscription | M | 1 | 200 OK | Upon success, a response body containing the AuthenticationSubscription shall be returned. |
| NOTE: In addition common data structures as listed in table 5.5-1 are supported. | | | | |

##### 5.2.2.3.2 PATCH

This method is used to modify the authentication data of UE in the UDR.

This method shall support the URI query parameters specified in table 5.2.2.3.2-1.

Table 5.2.2.3.2-1: URI query parameters supported by the PATCH method on this resource

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Name | Data type | P | Cardinality | Description |
| supported-features | SupportedFeatures | O | 0..1 | see 3GPP TS 29.500 [8] clause 6.6 |

This method shall support the request data structures specified in table 5.2.2.3.2-2 and the response data structures and response codes specified in table 5.2.2.3.2-3.

Table 5.2.2.3.2-2: Data structures supported by the PATCH Request Body on this resource

|  |  |  |  |
| --- | --- | --- | --- |
| Data type | P | Cardinality | Description |
| array(PatchItem) | M | 1..N | Contains the delta data to the authentication subscription of a UE |

Table 5.2.2.3.2-3: Data structures supported by the PATCH Response Body on this resource

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Data type | P | Cardinality | Response  codes | Description |
| n/a |  |  | 204 No Content | Upon successful modification there is no body in the response message. (NOTE 2) |
| PatchResult | M | 1 | 200 OK | Upon success, the execution report is returned. (NOTE 2) |
| ProblemDetails | O | 0..1 | 403 Forbidden | If one or more attributes are not allowed to be modified according to e.g. policy or local configuration, then  the invalidParams attribute shall contain the JSON pointers of attributes which are not allowed to be modifiedand the cause attribute shall be set to "MODIFICATION\_NOT\_ALLOWED", see 3GPP TS 29.500 [8] table 5.2.7.2-1. |
| NOTE 1: In addition common data structures as listed in table 5.5-1 are supported.  NOTE 2: If all the modification instructions in the PATCH request have been implemented, the UDR shall respond with 204 No Content response; if some of the modification instructions in the PATCH request have been discarded, and the NF service consumer has included in the supported-feature query parameter the "PatchReport" feature number, the UDR shall respond with PatchResult. | | | | |

### 5.2.3 Resource: AccessAndMobilitySubscriptionData

#### 5.2.3.1 Description

This resource represents the subscribed AccessAndMobilitySubscriptionData for a SUPI for use in a serving PLMN. It is queried by the AMF via the UDM after registering.

This resource is modelled with the Document resource archetype (see clause C.1 of 3GPP TS 29.501 [7]).

#### 5.2.3.2 Resource Definition

Resource URI: {apiRoot}/nudr-dr/<apiVersion>/subscription-data/{ueId}/{servingPlmnId}/provisioned-data/am-data

This resource shall support the resource URI variables defined in table 5.2.3.2-1.

Table 5.2.3.2-1: Resource URI variables for this resource

|  |  |
| --- | --- |
| Name | Definition |
| apiRoot | See 3GPP TS 29.504 [2] clause 6.1.1 |
| ueId | Represents the Subscription Identifier SUPI or GPSI (see 3GPP TS 23.501 [4] clause 5.9.2)  pattern: See pattern of type VarUeId 3GPP TS 29.571 [3] |
| servingPlmnId | Represents the Serving PLMN ID (consisting of MCC, MNC) or SNPN (consisting of MCC, MNC and NID); see clauses 12.1 and 17.2 in 3GPP TS 23.003 [5].  pattern: "^[0-9]{5,6}(-[A-Fa-f0-9]{11})?$" |

#### 5.2.3.3 Resource Standard Methods

##### 5.2.3.3.1 GET

This method shall support the URI query parameters specified in table 5.2.3.3.1-1.

Table 5.2.3.3.1-1: URI query parameters supported by the GET method on this resource

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Name | Data type | P | Cardinality | Description |
| fields | array(string) | C | 1..N | When the NF consumer only retrieves a subset of the resource, the "fields " query parameter shall be included. The "fields" query parameter contains the pointers of the attribute(s) to be retrieved. |
| adjacent-plmns | array(PlmnId) | O | 1..N | PLMN identities of PLMNs adjacent to the PLMN serving the UE. If present the GET response may contain adjacentPlmnRestrictions for the indicated PLMNs. |
| supported-features | SupportedFeatures | O | 0..1 | see 3GPP TS 29.500 [8] clause 6.6 |

This method shall support the request data structures specified in table 5.2.3.3.1-2 and the response data structures and response codes specified in table 5.2.3.3.1-3.

Table 5.2.3.3.1-2: Data structures supported by the GET Request Body on this resource

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

Table 5.2.3.3.1-3: Data structures supported by the GET Response Body on this resource

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Data type | P | Cardinality | Response  codes | Description |
| AccessAndMobilitySubscriptionData | M | 1 | 200 OK | Upon success, a response body containing the Access and Mobility Subscription Data shall be returned.  For the roaming and SNPN scenarios, see the description of the 'roamingRestrictions' attribute in the Table 6.1.6.2.4-1 of 3GPP TS 29.503 [6]. |
| NOTE: In addition common data structures as listed in table 5.5-1 are supported. | | | | |

### 5.2.4 Resource: SmfSelectionSubscriptionData

#### 5.2.4.1 Description

This resource represents the subscribed SmfSelectionSubscriptionData for a SUPI. It is queried by the UDM triggered by the AMF after registering.

This resource is modelled with the Document resource archetype (see clause C.1 of 3GPP TS 29.501 [7]).

#### 5.2.4.2 Resource Definition

Resource URI: {apiRoot}/nudr-dr/<apiVersion>/subscription-data/{ueId}/{servingPlmnId}/provisioned-data/smf-selection-subscription-data

This resource shall support the resource URI variables defined in table 5.2.4.2-1.

Table 5.2.4.2-1: Resource URI variables for this resource

|  |  |
| --- | --- |
| Name | Definition |
| apiRoot | See 3GPP TS 29.504 [2] clause 6.1.1 |
| ueId | Represents the Subscription Identifier SUPI or GPSI (see 3GPP TS 23.501 [4] clause 5.9.2)  pattern: See pattern of type VarUeId 3GPP TS 29.571 [3] |
| servingPlmnId | Represents the Serving PLMN ID (consisting of MCC, MNC) or SNPN (consisting of MCC, MNC and NID); see clauses 12.1 and 17.2 in 3GPP TS 23.003 [5].  pattern: "^[0-9]{5,6}(-[A-Fa-f0-9]{11})?$" |

#### 5.2.4.3 Resource Standard Methods

##### 5.2.4.3.1 GET

This method shall support the URI query parameters specified in table 5.2.4.3.1-1.

Table 5.2.4.3.1-1: URI query parameters supported by the GET method on this resource

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Name | Data type | P | Cardinality | Description |
| fields | array(string) | C | 1..N | When the NF consumer only retrieves a subset of the resource, the " fields " query parameter shall be included. The " fields " query parameter contains the pointers of the attribute(s) to be retrieved. |
| supported-features | SupportedFeatures | O | 0..1 | see 3GPP TS 29.500 [8] clause 6.6 |

This method shall support the request data structures specified in table 5.2.4.3.1-2 and the response data structures and response codes specified in table 5.2.4.3.1-3.

Table 5.2.4.3.1-2: Data structures supported by the GET Request Body on this resource

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

Table 5.2.4.3.1-3: Data structures supported by the GET Response Body on this resource

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Data type | P | Cardinality | Response  codes | Description |
| SmfSelectionSubscriptionData | M | 1 | 200 OK | Upon success, a response body containing the SMF Selection Subscription Data for the user shall be returned. |
| NOTE: In addition common data structures as listed in table 5.5-1 are supported. | | | | |

### 5.2.5 Resource: SessionManagementSubscriptionData

#### 5.2.5.1 Description

This resource represents the subscribed SessionManagementSubscriptionData for a SUPI. It is queried by the UDM triggered by the SMF during session setup, using one or both of query parameters representing the selected network slice and the DNN.

This resource is modelled with the Document resource archetype (see clause C.1 of 3GPP TS 29.501 [7]).

#### 5.2.5.2 Resource Definition

Resource URI: {apiRoot}/nudr-dr/<apiVersion>/subscription-data/{ueId}/{servingPlmnId}/provisioned-data/sm-data

This resource shall support the resource URI variables defined in table 5.2.5.2-1.

Table 5.2.5.2-1: Resource URI variables for this resource

|  |  |
| --- | --- |
| Name | Definition |
| apiRoot | See 3GPP TS 29.504 [2] clause 6.1.1 |
| ueId | Represents the Subscription Identifier SUPI or GPSI (see 3GPP TS 23.501 [4] clause 5.9.2)   pattern: See pattern of type VarUeId 3GPP TS 29.571 [3] |
| servingPlmnId | Represents the Serving PLMN ID (consisting of MCC, MNC) or SNPN (consisting of MCC, MNC and NID); see clauses 12.1 and 17.2 in 3GPP TS 23.003 [5].  pattern: "^[0-9]{5,6}(-[A-Fa-f0-9]{11})?$" |

#### 5.2.5.3 Resource Standard Methods

##### 5.2.5.3.1 GET

This method shall support the URI query parameters specified in table 5.2.5.3.1-1.

Table 5.2.5.3.1-1: URI query parameters supported by the GET method on this resource

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Name | Data type | P | Cardinality | Description |
| single-nssai | Snssai | O | 0..1 | When present without Slice Differentiator (sd), all slices identified by the given Slice/Service Type (sst) and any sd value (if any) shall be considered matching the query parameter. |
| dnn | Dnn | O | 0..1 |  |
| fields | array(string) | C | 1..N | When the NF consumer only retrieves a subset of the resource, the " fields " query parameter shall be included. The " fields " query parameter contains the pointers of the attribute(s) to be retrieved. |
| supported-features | SupportedFeatures | O | 0..1 | see 3GPP TS 29.500 [8] clause 6.6 |

If "single-nssai" is not included, and "dnn" is not included, UDR shall return all DNN configurations for all network slice(s).

If "single-nssai" is included, and "dnn" is not included, UDR shall return all DNN configurations for the requested network slice identified by "single-nssai".

If "single-nssai" is not included, and "dnn" is included, UDR shall return all DNN configurations identified by "dnn" for all network slices where such DNN is available.

If "single-nssai" is included, and "dnn" is included, UDR shall return the DNN configuration identified by "dnn", if such DNN is available in the network slice identified by "single-nssai".

This method shall support the request data structures specified in table 5.2.5.3.1-2 and the response data structures and response codes specified in table 5.2.5.3.1-3.

Table 5.2.5.3.1-2: Data structures supported by the GET Request Body on this resource

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

Table 5.2.5.3.1-3: Data structures supported by the GET Response Body on this resource

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Data type | P | Cardinality | Response  codes | Description |
| SmSubsData | M | 1 | 200 OK | Upon success, a response body containing the Session Management Subscription data shall be returned. |
| NOTE: In addition common data structures as listed in table 5.5-1 are supported. | | | | |

### 5.2.6 Resource: Amf3GppAccessRegistration

#### 5.2.6.1 Description

This resource is used to represent AMF registrations to be stored in the UDR by the UDM.

This resource is modelled with the Document resource archetype (see clause C.1 of 3GPP TS 29.501 [7]).

#### 5.2.6.2 Resource Definition

Resource URI: {apiRoot}/nudr-dr/<apiVersion>/subscription-data/{ueId}/context-data/amf-3gpp-access

This resource shall support the resource URI variables defined in table 5.2.6.2-1.

Table 5.2.6.2-1: Resource URI variables for this resource

|  |  |
| --- | --- |
| Name | Definition |
| apiRoot | See 3GPP TS 29.504 [2] clause 6.1.1 |
| ueId | Represents the Subscription Identifier SUPI or GPSI (see 3GPP TS 23.501 [4] clause 5.9.2)   pattern: See pattern of type VarUeId 3GPP TS 29.571 [3] |

#### 5.2.6.3 Resource Standard Methods

##### 5.2.6.3.1 PUT

This method shall support the URI query parameters specified in table 5.2.6.3.1-1.

Table 5.2.6.3.1-1: URI query parameters supported by the PUT method on this resource

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

This method shall support the request data structures specified in table 5.2.6.3.1-2 and the response data structures and response codes specified in table 5.2.6.3.1-3.

Table 5.2.6.3.1-2: Data structures supported by the PUT Request Body on this resource

|  |  |  |  |
| --- | --- | --- | --- |
| Data type | P | Cardinality | Description |
| Amf3GppAccessRegistration | M | 1 | The AMF registration for 3GPP access is replaced with the received information. |

Table 5.2.6.3.1-3: Data structures supported by the PUT Response Body on this resource

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Data type | P | Cardinality | Response  codes | Description |
| n/a |  |  | 204 No Content | Upon success, an empty response body shall be returned |
| Amf3GppAccessRegistration | M | 1 | 201 Created | Upon success, a response body containing a representation of the created Individual Amf3GppAccessRegistration resource shall be returned. |
| NOTE: In addition common data structures as listed in table 5.5-1 are supported. | | | | |

##### 5.2.6.3.2 PATCH

This method is used to modify AMF registration data for 3GPP access in the UDR.

This method shall support the URI query parameters specified in table 5.2.6.3.2-1.

Table 5.2.6.3.2-1: URI query parameters supported by the PATCH method on this resource

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Name | Data type | P | Cardinality | Description |
| supported-features | SupportedFeatures | O | 0..1 | see 3GPP TS 29.500 [8] clause 6.6 |

This method shall support the request data structures specified in table 5.2.6.3.2-2 and the response data structures and response codes specified in table 5.2.6.3.2-3.

Table 5.2.6.3.2-2: Data structures supported by the PATCH Request Body on this resource

|  |  |  |  |
| --- | --- | --- | --- |
| Data type | P | Cardinality | Description |
| array(PatchItem) | M | 1..N | Contains the delta data to the AMF registration data for 3GPP access |

Table 5.2.6.3.2-3: Data structures supported by the PATCH Response Body on this resource

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Data type | P | Cardinality | Response  codes | Description |
| n/a |  |  | 204 No Content | Upon successful modification there is no body in the response message. (NOTE 2) |
| PatchResult | M | 1 | 200 OK | Upon success, the execution report is returned. (NOTE 2) |
| ProblemDetails | O | 0..1 | 403 Forbidden | If one or more attributes are not allowed to be modified according to e.g. policy or local configuration, thenthe invalidParams attribute shall contain the JSON pointers of attributes which are not allowed to be modified and the cause attribute shall be set to "MODIFICATION\_NOT\_ALLOWED", see 3GPP TS 29.500 [8] table 5.2.7.2-1. |
| NOTE 1: In addition common data structures as listed in table 5.5-1 are supported.  NOTE 2: If all the modification instructions in the PATCH request have been implemented, the UDR shall respond with 204 No Content response; if some of the modification instructions in the PATCH request have been discarded, and the NF service consumer has included in the supported-feature query parameter the "PatchReport" feature number, the UDR shall respond with PatchResult. | | | | |

##### 5.2.6.3.3 GET

This method shall support the URI query parameters specified in table 5.2.6.3.1-1.

Table 5.2.6.3.3-1: URI query parameters supported by the GET method on this resource

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Name | Data type | P | Cardinality | Description |
| fields | array(string) | C | 1..N | When the NF consumer only retrieves a subset of the resource, the " fields " query parameter shall be included. The " fields " query parameter contains the pointers of the attribute(s) to be retrieved. |
| supported-features | SupportedFeatures | O | 0..1 | see 3GPP TS 29.500 [8] clause 6.6 |

This method shall support the request data structures specified in table 5.2.6.3.3-2 and the response data structures and response codes specified in table 5.2.6.3.3-3.

Table 5.2.6.3.3-2: Data structures supported by the GET Request Body on this resource

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

Table 5.2.6.3.3-3: Data structures supported by the GET Response Body on this resource

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Data type | P | Cardinality | Response  codes | Description |
| Amf3GppAccessRegistration | M | 1 | 200 OK | Upon success, a response body containing the Amf3GppAccessRegistration shall be returned. |
| NOTE: In addition common data structures as listed in table 5.5-1 are supported. | | | | |

### 5.2.7 Resource: AmfNon3GppAccessRegistration

#### 5.2.7.1 Description

This resource is used to represent AMF registrations to be stored in the UDR.

This resource is modelled with the Document resource archetype (see clause C.1 of 3GPP TS 29.501 [7]).

#### 5.2.7.2 Resource Definition

Resource URI: {apiRoot}/nudr-dr/<apiVersion>/subscription-data/{ueId}/context-data/amf-non-3gpp-access

This resource shall support the resource URI variables defined in table 5.2.7.2-1.

Table 5.2.7.2-1: Resource URI variables for this resource

|  |  |
| --- | --- |
| Name | Definition |
| apiRoot | See 3GPP TS 29.504 [2] clause 6.1.1 |
| ueId | Represents the Subscription Identifier SUPI or GPSI (see 3GPP TS 23.501 [4] clause 5.9.2)   pattern: See pattern of type VarUeId 3GPP TS 29.571 [3] |

#### 5.2.7.3 Resource Standard Methods

##### 5.2.7.3.1 PUT

This method shall support the URI query parameters specified in table 5.2.7.3.1-1.

Table 5.2.7.3.1-1: URI query parameters supported by the PUT method on this resource

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

This method shall support the request data structures specified in table 5.2.7.3.1-2 and the response data structures and response codes specified in table 5.2.7.3.1-3.

Table 5.2.7.3.1-2: Data structures supported by the PUT Request Body on this resource

|  |  |  |  |
| --- | --- | --- | --- |
| Data type | P | Cardinality | Description |
| AmfNon3GppAccessRegistration | M | 1 | The AMF registration for non 3GPP access is replaced with the received information. |

Table 5.2.7.3.1-3: Data structures supported by the PUT Response Body on this resource

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Data type | P | Cardinality | Response  codes | Description |
| n/a |  |  | 204 No Content | Upon success, an empty response body shall be returned |
| AmfNon3GppAccessRegistration | M | 1 | 201 Created | Upon success, a response body containing a representation of the created Individual AmfNon3GppAccessRegistration resource shall be returned. |
| NOTE: In addition common data structures as listed in table 5.5-1 are supported. | | | | |

##### 5.2.7.3.2 PATCH

This method is used to modify AMF registration data for non-3GPP access in the UDR.

This method shall support the URI query parameters specified in table 5.2.7.3.2-1.

Table 5.2.7.3.2-1: URI query parameters supported by the PATCH method on this resource

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Name | Data type | P | Cardinality | Description |
| supported-features | SupportedFeatures | O | 0..1 | see 3GPP TS 29.500 [8] clause 6.6 |

This method shall support the request data structures specified in table 5.2.7.3.2-2 and the response data structures and response codes specified in table 5.2.7.3.2-3.

Table 5.2.7.3.2-2: Data structures supported by the PATCH Request Body on this resource

|  |  |  |  |
| --- | --- | --- | --- |
| Data type | P | Cardinality | Description |
| array(PatchItem) | M | 1..N | Contains the delta data to the AMF registration data for non-3GPP access |

Table 5.2.7.3.2-3: Data structures supported by the PATCH Response Body on this resource

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Data type | P | Cardinality | Response  codes | Description |
| n/a |  |  | 204 No Content | Upon successful modification there is no body in the response message. (NOTE 2) |
| PatchResult | M | 1 | 200 OK | Upon success, the execution report is returned. (NOTE 2) |
| ProblemDetails | O | 0..1 | 403 Forbidden | If one or more attributes are not allowed to be modified according to e.g. policy or local configuration, thenthe invalidParams attribute shall contain the JSON pointers of attributes which are not allowed to be modified, andthe cause attribute shall be set to "MODIFICATION\_NOT\_ALLOWED", see 3GPP TS 29.500 [8] table 5.2.7.2-1. |
| NOTE 1: In addition common data structures as listed in table 5.5-1 are supported.  NOTE 2: If all the modification instructions in the PATCH request have been implemented, the UDR shall respond with 204 No Content response; if some of the modification instructions in the PATCH request have been discarded, and the NF service consumer has included in the supported-feature query parameter the "PatchReport" feature number, the UDR shall respond with PatchResult. | | | | |

##### 5.2.7.3.3 GET

This method shall support the URI query parameters specified in table 5.2.7.3.1-1.

Table 5.2.7.3.3-1: URI query parameters supported by the GET method on this resource

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Name | Data type | P | Cardinality | Description |
| fields | array(string) | C | 1..N | When the NF consumer only retrieves a subset of the resource, the " fields " query parameter shall be included. The " fields " query parameter contains the pointers of the attribute(s) to be retrieved. |
| supported-features | SupportedFeatures | O | 0..1 | see 3GPP TS 29.500 [8] clause 6.6 |

This method shall support the request data structures specified in table 5.2.7.3.3-2 and the response data structures and response codes specified in table 5.2.7.3.3-3.

Table 5.2.7.3.3-2: Data structures supported by the GET Request Body on this resource

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

Table 5.2.7.3.3-3: Data structures supported by the GET Response Body on this resource

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Data type | P | Cardinality | Response  codes | Description |
| AmfNon3GppAccessRegistration | M | 1 | 200 OK | Upon success, a response body containing the Amf3GppAccessRegistration shall be returned. |
| NOTE: In addition common data structures as listed in table 5.5-1 are supported. | | | | |

### 5.2.8 Resource: SmfRegistrations

#### 5.2.8.1 Description

This resource is used to represent SMF registrations to be stored in the UDR.

This resource is modelled with the Store resource archetype (see clause C.1 of 3GPP TS 29.501 [7]).

#### 5.2.8.2 Resource Definition

Resource URI: {apiRoot}/nudr-dr/<apiVersion>/subscription-data/{ueId}/context-data/smf-registrations

This resource shall support the resource URI variables defined in table 6.2.3.4.2-1.

Table 5.2.8.2-1: Resource URI variables for this resource

|  |  |
| --- | --- |
| Name | Definition |
| apiRoot | See clause 6.4.1 |
| ueId | Represents the Subscription Identifier SUPI or GPSI (see 3GPP TS 23.501 [4] clause 5.9.2)  pattern: See pattern of type VarUeId 3GPP TS 29.571 [3] |

#### 5.2.8.3 Resource Standard Methods

##### 5.2.8.3.1 GET

This method shall support the URI query parameters specified in table 5.2.8.3.1-1.

Table 5.2.8.3.1-1: URI query parameters supported by the GET method on this resource

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Name | Data type | P | Cardinality | Description |
| supported-features | SupportedFeatures | O | 0..1 | see 3GPP TS 29.500 [8] clause 6.6 |

This method shall support the request data structures specified in table 5.2.8.3.1-2 and the response data structures and response codes specified in table 5.2.8.3.1-3.

Table 5.2.8.3.1-2: Data structures supported by the GET Request Body on this resource

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

Table 5.2.8.3.1-3: Data structures supported by the GET Response Body on this resource

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Data type | P | Cardinality | Response  codes | Description |
| SmfRegList | M | 1 | 200 OK | Upon success, a response body containing the (possibly empty) list of SMF registrations of the relevant UE shall be returned. |
| NOTE: In addition common data structures as listed in table 5.5-1 are supported. | | | | |

### 5.2.9 Resource: IndividualSmfRegistration

#### 5.2.9.1 Description

This resource is used to represent individual PDU session SMF registrations to be stored in the UDR.

This resource is modelled with the Document resource archetype (see clause C.1 of 3GPP TS 29.501 [7]).

#### 5.2.9.2 Resource Definition

Resource URI: {apiRoot}/nudr-dr/<apiVersion>/subscription-data/{ueId}/context-data/smf-registrations/{pduSessionId}

This resource shall support the resource URI variables defined in table 5.2.9.2-1.

Table 5.2.9.2-1: Resource URI variables for this resource

|  |  |
| --- | --- |
| Name | Definition |
| apiRoot | See clause 6.4.1 |
| ueId | Represents the Subscription Identifier SUPI or GPSI (see 3GPP TS 23.501 [4] clause 5.9.2)  pattern: See pattern of type VarUeId 3GPP TS 29.571 [3] |
| pduSessionId | The pduSessionId identifies an individual SMF registration. |

#### 5.2.9.3 Resource Standard Methods

##### 5.2.9.3.1 PUT

This method shall support the URI query parameters specified in table 5.2.9.3.1-1.

Table 5.2.9.3.1-1: URI query parameters supported by the PUT method on this resource

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

This method shall support the request data structures specified in table 5.2.9.3.1-2 and the response data structures and response codes specified in table 5.2.9.3.1-3.

Table 5.2.9.3.1-2: Data structures supported by the PUT Request Body on this resource

|  |  |  |  |
| --- | --- | --- | --- |
| Data type | P | Cardinality | Description |
| SmfRegistration | M | 1 | The registration that is to be created |

Table 5.2.9.3.1-3: Data structures supported by the PUT Response Body on this resource

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Data type | P | Cardinality | Response  codes | Description |
| SmfRegistration | M | 1 | 201 Created | Upon success, a response body containing a representation of the created Individual SmfRegistration resource shall be returned. |
| n/a |  |  | 204 No Content | Upon success, an empty response body shall be returned. |
| NOTE: In addition common data structures as listed in table 5.5-1 are supported. | | | | |

##### 5.2.9.3.2 DELETE

This method shall support the URI query parameters specified in table 5.2.9.3.2-1.

Table 5.2.9.3.2-1: URI query parameters supported by the DELETE method on this resource

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

This method shall support the request data structures specified in table 5.2.9.3.2-2 and the response data structures and response codes specified in table 5.2.9.3.2-3.

Table 5.2.9.3.2-2: Data structures supported by the DELETE Request Body on this resource

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

Table 5.2.9.3.2-3: Data structures supported by the DELETE Response Body on this resource

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Data type | P | Cardinality | Response  codes | Description |
| n/a |  |  | 204 No Content | Upon success, an empty response body shall be returned. |
| NOTE: In addition common data structures as listed in table 5.5-1 are supported. | | | | |

##### 5.2.9.3.3 GET

This method shall support the URI query parameters specified in table 5.2.9.3.3-1.

Table 5.2.9.3.3-1: URI query parameters supported by the GET method on this resource

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Name | Data type | P | Cardinality | Description |
| fields | array(string) | C | 1..N | When the NF consumer only retrieves a subset of the resource, the " fields " query parameter shall be included. The " fields " query parameter contains the pointers of the attribute(s) to be retrieved. |
| supported-features | SupportedFeatures | O | 0..1 | see 3GPP TS 29.500 [8] clause 6.6 |

This method shall support the request data structures specified in table 5.2.9.3.3-2 and the response data structures and response codes specified in table 5.2.9.3.3-3.

Table 5.2.9.3.3-2: Data structures supported by the GET Request Body on this resource

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

Table 5.2.9.3.3-3: Data structures supported by the GET Response Body on this resource

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Data type | P | Cardinality | Response  codes | Description |
| SmfRegistration | M | 1 | 200 OK | The SMF registration that is to be retrieved |
| NOTE: In addition common data structures as listed in table 5.5-1 are supported. | | | | |

##### 5.2.9.3.4 PATCH

This method is used to modify SMF registration data in the UDR.

This method shall support the URI query parameters specified in table 5.2.9.3.4-1.

Table 5.2.9.3.4-1: URI query parameters supported by the PATCH method on this resource

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Name | Data type | P | Cardinality | Description |
| supported-features | SupportedFeatures | O | 0..1 | See 3GPP TS 29.500 [8] clause 6.6 |

This method shall support the request data structures specified in table 5.2.9.3.4-2 and the response data structures and response codes specified in table 5.2.9.3.4-3.

Table 5.2.9.3.4-2: Data structures supported by the PATCH Request Body on this resource

|  |  |  |  |
| --- | --- | --- | --- |
| Data type | P | Cardinality | Description |
| array(PatchItem) | M | 1..N | Contains the delta data to the SMF registration data |

Table 5.2.9.3.4-3: Data structures supported by the PATCH Response Body on this resource

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Data type | P | Cardinality | Response  codes | Description |
| n/a |  |  | 204 No Content | Upon successful modification there is no body in the response message. (NOTE 2) |
| PatchResult | M | 1 | 200 OK | Upon success, the execution report is returned. (NOTE 2) |
| ProblemDetails | O | 0..1 | 403 Forbidden | If one or more attributes are not allowed to be modified according to e.g. policy or local configuration, then the invalidParams attribute shall contain the JSON pointers of attributes which are not allowed to be modified, and the cause attribute shall be set to "MODIFICATION\_NOT\_ALLOWED", see 3GPP TS 29.500 [8] table 5.2.7.2-1. |
| NOTE 1: In addition common data structures as listed in table 5.5-1 are supported.  NOTE 2: If all the modification instructions in the PATCH request have been implemented, the UDR shall respond with 204 No Content; if some of the modification instructions in the PATCH request have been discarded, and the NF service consumer has included in the supported-feature query parameter the "PatchReport" feature number, the UDR shall respond with PatchResult. | | | | |

### 5.2.10 Resource: OperatorSpecificData

#### 5.2.10.1 Description

This resource represents the UE's operator specific data.

This resource is modelled with the Document resource archetype (see clause C.1 of 3GPP TS 29.501 [7]).

#### 5.2.10.2 Resource Definition

Resource URI: {apiRoot}/nudr-dr/<apiVersion>/subscription-data/{ueId}/operator-specific-data

This resource shall support the resource URI variables defined in table 5.2.10.2-1.

Table 5.2.10.2-1: Resource URI variables for this resource

|  |  |
| --- | --- |
| Name | Definition |
| apiRoot | See 3GPP TS 29.504 [2] clause 6.1.1 |
| ueId | Represents the Subscription Identifier SUPI or GPSI (see 3GPP TS 23.501 [4] clause 5.9.2)   pattern: See pattern of type VarUeId 3GPP TS 29.571 [3] |
| NOTE: The content of ueId SUPI or GPSI depends on the service. | |

#### 5.2.10.3 Resource Standard Methods

##### 5.2.10.3.1 GET

This method is used to retrieve operator specific data from the UDR.

This method shall support the URI query parameters specified in table 5.2.10.3.1-1.

Table 5.2.10.3.1-1: URI query parameters supported by the GET method on this resource

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Name | Data type | P | Cardinality | Description |
| fields | array(string) | C | 1..N | When the NF consumer only retrieves a subset of the resource, the " fields " query parameter shall be included. The " fields " query parameter contains the pointers of the attribute(s) to be retrieved. |
| supported-features | SupportedFeatures | O | 0..1 | see 3GPP TS 29.500 [8] clause 6.6 |

This method shall support the request data structures specified in table 5.2.10.3.1-2 and the response data structures and response codes specified in table 5.2.10.3.1-3.

Table 5.2.10.3.1-2: Data structures supported by the GET Request Body on this resource

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

Table 5.2.10.3.1-3: Data structures supported by the GET Response Body on this resource

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Data type | P | Cardinality | Response  codes | Description |
| map(OperatorSpecificDataContainer) | M | 0..N | 200 OK | Upon success, a response body containing a map shall be returned. The key of the map is an operator-specific data element name and the value is the operator-specific data of such data element, for the current UE (identified by the {ueId} variable in the resource path).  If the resource does not contain any keys, the response consists of an empty JSON object (empty map). |
| NOTE: In addition common data structures as listed in table 5.5-1 are supported. | | | | |

##### 5.2.10.3.2 PATCH

This method is used to modify operator specific data in the UDR.

This method shall support the URI query parameters specified in table 5.2.10.3.2-1.

Table 5.2.10.3.2-1: URI query parameters supported by the PATCH method on this resource

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Name | Data type | P | Cardinality | Description |
| supported-features | SupportedFeatures | O | 0..1 | see 3GPP TS 29.500 [8] clause 6.6 |

This method shall support the request data structures specified in table 5.2.10.3.2-2 and the response data structures and response codes specified in table 5.2.10.3.2-3.

Table 5.2.10.3.2-2: Data structures supported by the PATCH Request Body on this resource

|  |  |  |  |
| --- | --- | --- | --- |
| Data type | P | Cardinality | Description |
| array(PatchItem) | M | 1..N | Contains the delta data to the operator specific data |

Table 5.2.10.3.2-3: Data structures supported by the PATCH Response Body on this resource

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Data type | P | Cardinality | Response  codes | Description |
| n/a |  |  | 204 No Content | Upon successful modification there is no body in the response message. (NOTE 2) |
| PatchResult | M | 1 | 200 OK | Upon success, the execution report is returned. (NOTE 2) |
| ProblemDetails | O | 0..1 | 403 Forbidden | If one or more attributes are not allowed to be modified according to e.g. policy or local configuration, thenthe invalidParams attribute shall contain the JSON pointers of attributes which are not allowed to be modified, and the cause attribute shall be set to "MODIFICATION\_NOT\_ALLOWED", see 3GPP TS 29.500 [8] table 5.2.7.2-1. |
| NOTE 1: In addition common data structures as listed in table 5.5-1 are supported.  NOTE 2: If all the modification instructions in the PATCH request have been implemented, the UDR shall respond with 204 No Content response; if some of the modification instructions in the PATCH request have been discarded, and the NF service consumer has included in the supported-feature query parameter the "PatchReport" feature number, the UDR shall respond with PatchResult. | | | | |

##### 5.2.10.3.3 PUT

This method shall support the URI query parameters specified in table 5.2.10.3.3-1.

Table 5.2.10.3.3-1: URI query parameters supported by the PUT method on this resource

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Name | Data type | P | Cardinality | Description |
| supported-features | SupportedFeatures | O | 0..1 | see 3GPP TS 29.500 [8] clause 6.6 |

This method shall support the request data structures specified in table 5.2.10.3.3-2 and the response data structure, and response codes specified in table 5.2.10.3.3-3.

Table 5.2.10.3.3-2: Data structures supported by the PUT Request Body on this resource

|  |  |  |  |
| --- | --- | --- | --- |
| Data type | P | Cardinality | Description |
| map(OperatorSpecificDataContainer) | M | 1..N |  |

Table 5.2.10.3.3-3: Data structures supported by the PUT Response Body on this resource

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Data type | P | Cardinality | Response  codes | Description |
| map(OperatorSpecificDataContainer) | O | 1..N | 201 Created | Upon successful creation of this resource, a representation of the created resource containing a map of OperatorSpecificDataContainer shall be returned. The key of the map is operator specific data element name and the value is the operator specific data of the UE. |
| n/a | O |  | 204 No Content | Upon successful update of this resource, an empty response body shall be returned. |
| NOTE: In addition, common data structures as listed in table 5.5-1 are supported. | | | | |

##### 5.2.10.3.4 DELETE

This method shall support the URI query parameters specified in table 5.2.10.3.4-1.

Table 5.2.10.3.4-1: URI query parameters supported by the DELETE method on this resource

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

This method shall support the request data structures specified in table 5.2.10.3.4-2 and the response data structure, and response codes specified in table 5.2.10.3.4-3.

Table 5.2.10.3.4-2: Data structures supported by the DELETE Request Body on this resource

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

Table 5.2.10.3.4-3: Data structures supported by the DELETE Response Body on this resource

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Data type | P | Cardinality | Response  codes | Description |
| n/a |  |  | 204 No Content | Upon success, an empty response body shall be returned. |
| NOTE: In addition, common data structures as listed in table 5.5-1 are supported. | | | | |

### 5.2.11 Resource: Smsf3GppAccessRegistration

#### 5.2.11.1 Description

This resource represents registered SMSF for 3GPP access.

This resource is modelled with the Document resource archetype (see clause C.1 of 3GPP TS 29.501 [7]).-

#### 5.2.11.2 Resource Definition

Resource URI: {apiRoot}/nudr-dr/<apiVersion>/subscription-data/{ueId}/context-data/smsf-3gpp-access

This resource shall support the resource URI variables defined in table 5.2.11.2-1.

Table 5.2.11.2-1: Resource URI variables for this resource

|  |  |
| --- | --- |
| Name | Definition |
| apiRoot | See 3GPP TS 29.504 [2] clause 6.1.1 |
| ueId | Represents the Subscription Identifier SUPI or GPSI (see 3GPP TS 23.501 [4] clause 5.9.2)  pattern: See pattern of type VarUeId 3GPP TS 29.571 [3] |

#### 5.2.11.3 Resource Standard Methods

##### 5.2.11.3.1 PUT

This method shall support the URI query parameters specified in table 5.2.11.3.1-1.

Table 5.2.11.3.1-1: URI query parameters supported by the PUT method on this resource

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

This method shall support the request data structures specified in table 5.2.11.3.1-2 and the response data structures and response codes specified in table 5.2.11.3.1-3.

Table 5.2.11.3.1-2: Data structures supported by the PUT Request Body on this resource

|  |  |  |  |
| --- | --- | --- | --- |
| Data type | P | Cardinality | Description |
| SmsfRegistration | M | 1 | The SMSF registration for 3GPP access is created or updated with the received information. |

Table 5.2.11.3.1-3: Data structures supported by the PUT Response Body on this resource

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Data type | P | Cardinality | Response  codes | Description |
| n/a |  |  | 204 No Content | Upon success, an empty response body shall be returned |
| SmsfRegistration | M | 1 | 201 Created | Upon success, a response body containing a representation of the created Individual SmsfRegistration for 3GPP access resource shall be returned. |
| SmsfRegistration | M | 1 | 200 OK | Upon success, a response body containing a representation of the updated Individual SmsfRegistration for 3GPP access resource shall be returned. |
| NOTE: In addition common data structures as listed in table 5.5-1 are supported. | | | | |

##### 5.2.11.3.2 DELETE

This method shall support the URI query parameters specified in table 5.2.11.3.2-1.

Table 5.2.11.3.2-1: URI query parameters supported by the DELETE method on this resource

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

This method shall support the request data structures specified in table 5.2.11.3.2-2 and the response data structures and response codes specified in table 5.2.11.3.2-3.

Table 5.2.11.3.2-2: Data structures supported by the DELETE Request Body on this resource

|  |  |  |  |
| --- | --- | --- | --- |
| Data type | P | Cardinality | Description |
| n/a |  |  | The request body shall be empty. |

Table 5.2.11.3.2-3: Data structures supported by the DELETE Response Body on this resource

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Data type | P | Cardinality | Response  codes | Description |
| n/a |  |  | 204 No Content | Upon success, an empty response body shall be returned. |
| NOTE: In addition common data structures as listed in table 5.5-1 are supported. | | | | |

##### 5.2.11.3.4 GET

This method shall support the URI query parameters specified in table 5.2.11.3.4-1.

Table 5.2.11.3.4-1: URI query parameters supported by the GET method on this resource

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Name | Data type | P | Cardinality | Description |
| fields | array(string) | C | 1..N | When the NF consumer only retrieves a subset of the resource, the " fields " query parameter shall be included. The " fields " query parameter contains the pointers of the attribute(s) to be retrieved. |
| supported-features | SupportedFeatures | O | 0..1 | see 3GPP TS 29.500 [8] clause 6.6 |

This method shall support the request data structures specified in table 5.2.11.3.4-2 and the response data structures and response codes specified in table 5.2.11.3.4-3.

Table 5.2.11.3.4-2: Data structures supported by the GET Request Body on this resource

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

Table 5.2.11.3.4-3: Data structures supported by the GET Response Body on this resource

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Data type | P | Cardinality | Response  codes | Description |
| SmsfRegistration | M | 1 | 200 OK | Upon success, a response body containing the SMSF registration for 3GPP access Data shall be returned. |
| NOTE: In addition common data structures as listed in table 5.5-1 are supported. | | | | |

### 5.2.12 Resource: SmsfNon3GppAccessRegistration

#### 5.2.12.1 Description

This resource represents registered SMSF for Non 3GPP access.

This resource is modelled with the Document resource archetype (see clause C.1 of 3GPP TS 29.501 [7]).

#### 5.2.12.2 Resource Definition

Resource URI: {apiRoot}/nudr-dr/<apiVersion>/subscription-data/{ueId}/context-data/smsf-non-3gpp-access

This resource shall support the resource URI variables defined in table 5.2.12.2-1.

Table 5.2.12.2-1: Resource URI variables for this resource

|  |  |
| --- | --- |
| Name | Definition |
| apiRoot | See 3GPP TS 29.504 [2] clause 6.1.1 |
| ueId | Represents the Subscription Identifier SUPI or GPSI (see 3GPP TS 23.501 [4] clause 5.9.2)  pattern: See pattern of type VarUeId 3GPP TS 29.571 [3] |

#### 5.2.12.3 Resource Standard Methods

##### 5.2.12.3.1 PUT

This method shall support the URI query parameters specified in table 5.2.12.3.1-1.

Table 5.2.12.3.1-1: URI query parameters supported by the PUT method on this resource

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

This method shall support the request data structures specified in table 5.2.12.3.1-2 and the response data structures and response codes specified in table 5.2.12.3.1-3.

Table 5.2.12.3.1-2: Data structures supported by the PUT Request Body on this resource

|  |  |  |  |
| --- | --- | --- | --- |
| Data type | P | Cardinality | Description |
| SmsfRegistration | M | 1 | The SMSF registration for non 3GPP access is created or updated with the received information. |

Table 5.2.12.3.1-3: Data structures supported by the PUT Response Body on this resource

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Data type | P | Cardinality | Response  codes | Description |
| n/a |  |  | 204 No Content | Upon success, an empty response body shall be returned |
| SmsfRegistration | M | 1 | 201 Created | Upon success, a response body containing a representation of the created Individual SmsfRegistration for non 3GPP access resource shall be returned. |
| SmsfRegistration | M | 1 | 200 OK | Upon success, a response body containing a representation of the updated Individual SmsfRegistration for non 3GPP access resource shall be returned. |
| NOTE: In addition common data structures as listed in table 5.5-1 are supported. | | | | |

##### 5.2.12.3.2 DELETE

This method shall support the URI query parameters specified in table 5.2.12.3.2-1.

Table 5.2.12.3.2-1: URI query parameters supported by the DELETE method on this resource

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

This method shall support the request data structures specified in table 5.2.12.3.2-2 and the response data structures and response codes specified in table 5.2.12.3.2-3.

Table 5.2.12.3.2-2: Data structures supported by the DELETE Request Body on this resource

|  |  |  |  |
| --- | --- | --- | --- |
| Data type | P | Cardinality | Description |
| n/a |  |  | The request body shall be empty. |

Table 5.2.12.3.2-3: Data structures supported by the DELETE Response Body on this resource

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Data type | P | Cardinality | Response  codes | Description |
| n/a |  |  | 204 No Content | Upon success, an empty response body shall be returned. |
| NOTE: In addition common data structures as listed in table 5.5-1 are supported. | | | | |

##### 5.2.12.3.4 GET

This method shall support the URI query parameters specified in table 5.2.12.3.4-1.

Table 5.2.12.3.4-1: URI query parameters supported by the GET method on this resource

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Name | Data type | P | Cardinality | Description |
| fields | array(string) | C | 1..N | When the NF consumer only retrieves a subset of the resource, the " fields " query parameter shall be included. The " fields " query parameter contains the pointers of the attribute(s) to be retrieved. |
| supported-features | SupportedFeatures | O | 0..1 | see 3GPP TS 29.500 [8] clause 6.6 |

This method shall support the request data structures specified in table 5.2.12.3.4-2 and the response data structures and response codes specified in table 5.2.12.3.4-3.

Table 5.2.12.3.4-2: Data structures supported by the GET Request Body on this resource

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

Table 5.2.12.3.4-3: Data structures supported by the GET Response Body on this resource

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Data type | P | Cardinality | Response  codes | Description |
| SmsfRegistration | M | 1 | 200 OK | Upon success, a response body containing the SMSF registration for non 3GPP access Data shall be returned. |
| NOTE: In addition common data structures as listed in table 5.5-1 are supported. | | | | |

### 5.2.12A Resource: IpSmGwRegistration

#### 5.2.12A.1 Description

This resource represents the registered IP-SM-GW.

This resource is modelled with the Document resource archetype (see clause C.1 of 3GPP TS 29.501 [7]).

#### 5.2.12A.2 Resource Definition

Resource URI: {apiRoot}/nudr-dr/<apiVersion>/subscription-data/{ueId}/context-data/ip-sm-gw

This resource shall support the resource URI variables defined in table 5.2.12A.2-1.

Table 5.2.12A.2-1: Resource URI variables for this resource

|  |  |
| --- | --- |
| Name | Definition |
| apiRoot | See 3GPP TS 29.504 [2] clause 6.1.1 |
| ueId | Represents the Subscription Identifier SUPI or GPSI (see 3GPP TS 23.501 [4] clause 5.9.2)  pattern: See pattern of type VarUeId 3GPP TS 29.571 [3] |

#### 5.2.12A.3 Resource Standard Methods

##### 5.2.12A.3.1 PUT

This method shall support the URI query parameters specified in table 5.2.12A.3.1-1.

Table 5.2.12A.3.1-1: URI query parameters supported by the PUT method on this resource

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

This method shall support the request data structures specified in table 5.2.12A.3.1-2 and the response data structures and response codes specified in table 5.2.12A.3.1-3.

Table 5.2.12A.3.1-2: Data structures supported by the PUT Request Body on this resource

|  |  |  |  |
| --- | --- | --- | --- |
| Data type | P | Cardinality | Description |
| IpSmGwRegistration | M | 1 | The IP-SM-GW registration is created or updated with the received information. |

Table 5.2.12A.3.1-3: Data structures supported by the PUT Response Body on this resource

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Data type | P | Cardinality | Response  codes | Description |
| n/a |  |  | 204 No Content | Upon success, an empty response body shall be returned |
| NOTE: In addition, common data structures as listed in table 5.5-1 are supported. | | | | |

##### 5.2.12A.3.2 DELETE

This method shall support the URI query parameters specified in table 5.2.12A.3.2-1.

Table 5.2.12A.3.2-1: URI query parameters supported by the DELETE method on this resource

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

This method shall support the request data structures specified in table 5.2.12A.3.2-2 and the response data structures and response codes specified in table 5.2.12A.3.2-3.

Table 5.2.12A.3.2-2: Data structures supported by the DELETE Request Body on this resource

|  |  |  |  |
| --- | --- | --- | --- |
| Data type | P | Cardinality | Description |
| n/a |  |  | The request body shall be empty. |

Table 5.2.12A.3.2-3: Data structures supported by the DELETE Response Body on this resource

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Data type | P | Cardinality | Response  codes | Description |
| n/a |  |  | 204 No Content | Upon success, an empty response body shall be returned. |
| NOTE: In addition, common data structures as listed in table 5.5-1 are supported. | | | | |

##### 5.2.12A.3.3 PATCH

This method shall support the URI query parameters specified in table 5.2.12A.3.3-1.

Table 5.2.12A.3.3-1: URI query parameters supported by the PATCH method on this resource

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Name | Data type | P | Cardinality | Description |
| supported-features | SupportedFeatures | O | 0..1 | see 3GPP TS 29.500 [8] clause 6.6 |

This method shall support the request data structures specified in table 5.2.12A.3.3-2 and the response data structures and response codes specified in table 5.2.12A.3.3-3.

Table 5.2.12A.3.3-2: Data structures supported by the PATCH Request Body on this resource

|  |  |  |  |
| --- | --- | --- | --- |
| Data type | P | Cardinality | Description |
| array(PatchItem) | M | 1..N | Contains the delta data to the authentication subscription of a UE |

Table 5.2.12A.3.3-3: Data structures supported by the PATCH Response Body on this resource

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Data type | P | Cardinality | Response  codes | Description |
| n/a |  |  | 204 No Content | Upon successful modification there is no body in the response message. (NOTE 2) |
| PatchResult | M | 1 | 200 OK | Upon success, the execution report is returned. (NOTE 2) |
| ProblemDetails | O | 0..1 | 403 Forbidden | One or more attributes are not allowed to be modified according to e.g. policy or local configuration.  The invalidParams attribute shall contain the JSON pointers of attributes which are not allowed to be modified.  The cause attribute may be used to convey any of the following errors:  - "MODIFICATION\_NOT\_ALLOWED", see 3GPP TS 29.500 [8] table 5.2.7.2-1. |
| NOTE 1: In addition, common data structures as listed in table 5.5-1 are supported.  NOTE 2: If all the modification instructions in the PATCH request have been implemented, the UDR shall respond with 204 No Content response; if some of the modification instructions in the PATCH request have been discarded, and the NF service consumer has included in the supported-feature query parameter the "PatchReport" feature number, the UDR shall respond with PatchResult. | | | | |

##### 5.2.12A.3.4 GET

This method shall support the URI query parameters specified in table 5.2.12A.3.4-1.

Table 5.2.12A.3.4-1: URI query parameters supported by the GET method on this resource

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Name | Data type | P | Cardinality | Description |
| fields | array(string) | C | 1..N | When the NF consumer only retrieves a subset of the resource, the "fields" query parameter shall be included. The "fields" query parameter contains the pointers of the attribute(s) to be retrieved. |
| supported-features | SupportedFeatures | O | 0..1 | see 3GPP TS 29.500 [8] clause 6.6 |

This method shall support the request data structures specified in table 5.2.12A.3.4-2 and the response data structures and response codes specified in table 5.2.12A.3.4-3.

Table 5.2.12A.3.4-2: Data structures supported by the GET Request Body on this resource

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

Table 5.2.12A.3.4-3: Data structures supported by the GET Response Body on this resource

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Data type | P | Cardinality | Response  codes | Description |
| IpSmGwRegistration | M | 1 | 200 OK | Upon success, a response body containing the IP-SM-GW Registration Data shall be returned. |
| NOTE: In addition, common data structures as listed in table 5.5-1 are supported. | | | | |

### 5.2.12B Resource: MessageWaitingData

#### 5.2.12B.1 Description

This resource represents the Message Waiting Data list for a given UE.

This resource is modelled with the Document resource archetype (see clause C.1 of 3GPP TS 29.501 [7]).

#### 5.2.12B.2 Resource Definition

Resource URI: {apiRoot}/nudr-dr/<apiVersion>/subscription-data/{ueId}/context-data/mwd

This resource shall support the resource URI variables defined in table 5.2.12B.2-1.

Table 5.2.12B.2-1: Resource URI variables for this resource

|  |  |
| --- | --- |
| Name | Definition |
| apiRoot | See 3GPP TS 29.504 [2] clause 6.1.1 |
| ueId | Represents the Subscription Identifier SUPI or GPSI (see 3GPP TS 23.501 [4] clause 5.9.2)  pattern: See pattern of type VarUeId 3GPP TS 29.571 [3] |

#### 5.2.12B.3 Resource Standard Methods

##### 5.2.12B.3.1 PUT

This method shall support the URI query parameters specified in table 5.2.12B.3.1-1.

Table 5.2.12B.3.1-1: URI query parameters supported by the PUT method on this resource

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

This method shall support the request data structures specified in table 5.2.12B.3.1-2 and the response data structures and response codes specified in table 5.2.12B.3.1-3.

Table 5.2.12B.3.1-2: Data structures supported by the PUT Request Body on this resource

|  |  |  |  |
| --- | --- | --- | --- |
| Data type | P | Cardinality | Description |
| MessageWaitingData | M | 1 | The Message Waiting Data list is created or updated with the received information. |

Table 5.2.12B.3.1-3: Data structures supported by the PUT Response Body on this resource

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Data type | P | Cardinality | Response  codes | Description |
| n/a |  |  | 204 No Content | Upon success, an empty response body shall be returned |
| MessageWaitingData | M | 1 | 201 Created | If the resource did not already exist, and it is successfully created, a response body containing a representation of the created Individual MessageWaitingData resource shall be returned. |
| NOTE: In addition, common data structures as listed in table 5.5-1 are supported. | | | | |

##### 5.2.12B.3.2 DELETE

This method shall support the URI query parameters specified in table 5.2.12B.3.2-1.

Table 5.2.12B.3.2-1: URI query parameters supported by the DELETE method on this resource

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

This method shall support the request data structures specified in table 5.2.12B.3.2-2 and the response data structures and response codes specified in table 5.2.12B.3.2-3.

Table 5.2.12B.3.2-2: Data structures supported by the DELETE Request Body on this resource

|  |  |  |  |
| --- | --- | --- | --- |
| Data type | P | Cardinality | Description |
| n/a |  |  | The request body shall be empty. |

Table 5.2.12B.3.2-3: Data structures supported by the DELETE Response Body on this resource

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Data type | P | Cardinality | Response  codes | Description |
| n/a |  |  | 204 No Content | Upon success, an empty response body shall be returned. |
| NOTE: In addition, common data structures as listed in table 5.5-1 are supported. | | | | |

##### 5.2.12B.3.3 PATCH

This method shall support the URI query parameters specified in table 5.2.12B.3.3-1.

Table 5.2.12B.3.3-1: URI query parameters supported by the PATCH method on this resource

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Name | Data type | P | Cardinality | Description |
| supported-features | SupportedFeatures | O | 0..1 | see 3GPP TS 29.500 [8] clause 6.6 |

This method shall support the request data structures specified in table 5.2.12B.3.3-2 and the response data structures and response codes specified in table 5.2.12B.3.3-3.

Table 5.2.12B.3.3-2: Data structures supported by the PATCH Request Body on this resource

|  |  |  |  |
| --- | --- | --- | --- |
| Data type | P | Cardinality | Description |
| array(PatchItem) | M | 1..N | Contains the delta data to the authentication subscription of a UE |

Table 5.2.12B.3.3-3: Data structures supported by the PATCH Response Body on this resource

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Data type | P | Cardinality | Response  codes | Description |
| n/a |  |  | 204 No Content | Upon successful modification there is no body in the response message. (NOTE 2) |
| PatchResult | M | 1 | 200 OK | Upon success, the execution report is returned. (NOTE 2) |
| ProblemDetails | O | 0..1 | 403 Forbidden | One or more attributes are not allowed to be modified according to e.g. policy or local configuration.  The invalidParams attribute shall contain the JSON pointers of attributes which are not allowed to be modified.  The cause attribute may be used to convey any of the following errors:  - "MODIFICATION\_NOT\_ALLOWED", see 3GPP TS 29.500 [8] table 5.2.7.2-1. |
| NOTE 1: In addition, common data structures as listed in table 5.5-1 are supported.  NOTE 2: If all the modification instructions in the PATCH request have been implemented, the UDR shall respond with 204 No Content response; if some of the modification instructions in the PATCH request have been discarded, and the NF service consumer has included in the supported-feature query parameter the "PatchReport" feature number, the UDR shall respond with PatchResult. | | | | |

##### 5.2.12B.3.4 GET

This method shall support the URI query parameters specified in table 5.2.12B.3.4-1.

Table 5.2.12B.3.4-1: URI query parameters supported by the GET method on this resource

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Name | Data type | P | Cardinality | Description |
| fields | array(string) | C | 1..N | When the NF consumer only retrieves a subset of the resource, the "fields" query parameter shall be included. The "fields" query parameter contains the pointers of the attribute(s) to be retrieved. |
| supported-features | SupportedFeatures | O | 0..1 | see 3GPP TS 29.500 [8] clause 6.6 |

This method shall support the request data structures specified in table 5.2.12B.3.4-2 and the response data structures and response codes specified in table 5.2.12B.3.4-3.

Table 5.2.12B.3.4-2: Data structures supported by the GET Request Body on this resource

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

Table 5.2.12B.3.4-3: Data structures supported by the GET Response Body on this resource

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Data type | P | Cardinality | Response  codes | Description |
| MessageWaitingData | M | 1 | 200 OK | Upon success, a response body containing the Message Waiting Data shall be returned. |
| NOTE: In addition, common data structures as listed in table 5.5-1 are supported. | | | | |

### 5.2.13 Resource: SMSManagementSubscriptionData

#### 5.2.13.1 Description

This resource represents the subscribed SMSManagementSubscriptionData for a SUPI for use in a serving PLMN. It is queried by the SMSF via the UDM after registering.

This resource is modelled with the Document resource archetype (see clause C.1 of 3GPP TS 29.501 [7]).

#### 5.2.13.2 Resource Definition

Resource URI: {apiRoot}/nudr-dr/<apiVersion>/subscription-data/{ueId}/{servingPlmnId}/provisioned-data/sms-mng-data

This resource shall support the resource URI variables defined in table 5.2.13.2-1.

Table 5.2.13.2-1: Resource URI variables for this resource

|  |  |
| --- | --- |
| Name | Definition |
| apiRoot | See 3GPP TS 29.504 [2] clause 6.1.1 |
| ueId | Represents the Subscription Identifier SUPI or GPSI (see 3GPP TS 23.501 [4] clause 5.9.2)  pattern: See pattern of type VarUeId 3GPP TS 29.571 [3] |
| servingPlmnId | Represents the Serving PLMN ID (consisting of MCC, MNC) or SNPN (consisting of MCC, MNC and NID); see clauses 12.1 and 17.2 in 3GPP TS 23.003 [5].  pattern: "^[0-9]{5,6}(-[A-Fa-f0-9]{11})?$" |

#### 5.2.13.3 Resource Standard Methods

##### 5.2.13.3.1 GET

This method shall support the URI query parameters specified in table 5.2.13.3.1-1.

Table 5.2.13.3.1-1: URI query parameters supported by the GET method on this resource

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Name | Data type | P | Cardinality | Description |
| supported-features | SupportedFeatures | O | 0..1 | see 3GPP TS 29.500 [8] clause 6.6 |

This method shall support the request data structures specified in table 5.2.13.3.1-2 and the response data structures and response codes specified in table 5.2.13.3.1-3.

Table 5.2.13.3.1-2: Data structures supported by the GET Request Body on this resource

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

Table 5.2.13.3.1-3: Data structures supported by the GET Response Body on this resource

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Data type | P | Cardinality | Response  codes | Description |
| SmsManagementSubscriptionData | M | 1 | 200 OK | Upon success, a response body containing the SMS Management Subscription Data shall be returned. |
| NOTE: In addition common data structures as listed in table 5.5-1 are supported. | | | | |

### 5.2.14 Resource: ProvisionedParamenterData

#### 5.2.14.1 Description

This resource represents the subscribed ProvisionedParameterData for a GPSI. It is triggered by the AF/NEF via the UDM to update provisioned data stored for the subscriber.

This resource is modelled with the Document resource archetype (see clause C.1 of 3GPP TS 29.501 [7]).

#### 5.2.14.2 Resource Definition

Resource URI: {apiRoot}/nudr-dr/<apiVersion>/subscription-data/{ueId}/pp-data

This resource shall support the resource URI variables defined in table 5.2.14.2-1.

Table 5.2.14.2-1: Resource URI variables for this resource

|  |  |
| --- | --- |
| Name | Definition |
| apiRoot | See 3GPP TS 29.504 [2] clause 6.1.1 |
| ueId | Represents the Subscription Identifier SUPI or GPSI (see 3GPP TS 23.501 [4] clause 5.9.2)  pattern: See pattern of type VarUeId 3GPP TS 29.571 [3] |

#### 5.2.14.3 Resource Standard Methods

##### 5.2.14.3.1 GET

This method retrieves the provisioned data of a given UE.

This method shall support the URI query parameters specified in table 5.2.14.3.1-1.

Table 5.2.14.3.1-1: URI query parameters supported by the GET method on this resource

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Name | Data type | P | Cardinality | Description |
| supported-features | SupportedFeatures | O | 0..1 | see 3GPP TS 29.500 [8] clause 6.6 |

This method shall support the request data structures specified in table 5.2.14.3.1-2 and the response data structures and response codes specified in table 5.2.14.3.1-3.

Table 5.2.14.3.1-2: Data structures supported by the GET Request Body on this resource

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

Table 5.2.14.3.1-3: Data structures supported by the GET Response Body on this resource

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Data type | P | Cardinality | Response  codes | Description |
| PpData | M | 1 | 200 OK | Upon success, a response body is returned containing the provisioned data of the GPSI. |

##### 5.2.14.3.2 PATCH

This method is used to modify the provisioned parameter data in the UDR.

This method shall support the URI query parameters specified in table 5.2.14.3.2-1.

Table 5.2.14.3.2-1: URI query parameters supported by the PATCH method on this resource

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Name | Data type | P | Cardinality | Description |
| supported-features | SupportedFeatures | O | 0..1 | see 3GPP TS 29.500 [8] clause 6.6 |

This method shall support the request data structures specified in table 5.2.14.3.2-2 and the response data structures and response codes specified in table 5.2.14.3.2-3.

Table 5.2.14.3.2-2: Data structures supported by the PATCH Request Body on this resource

|  |  |  |  |
| --- | --- | --- | --- |
| Data type | P | Cardinality | Description |
| array(PatchItem) | M | 1..N | Contains the delta data to the provisioned parameter data |

Table 5.2.14.3.2-3: Data structures supported by the PATCH Response Body on this resource

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Data type | P | Cardinality | Response  codes | Description |
| n/a |  |  | 204 No Content | Upon successful modification there is no body in the response message. (NOTE 2) |
| PatchResult | M | 1 | 200 OK | Upon success, the execution report is returned. (NOTE 2) |
| ProblemDetails | O | 0..1 | 403 Forbidden | If one or more attributes are not allowed to be modified according to e.g. policy or local configuration, then the invalidParams attribute shall contain the JSON pointers of attributes which are not allowed to be modified, and the cause attribute shall be set to "MODIFICATION\_NOT\_ALLOWED", see 3GPP TS 29.500 [8] table 5.2.7.2-1. |
| NOTE 1: In addition common data structures as listed in table 5.5-1 are supported.  NOTE 2: If all the modification instructions in the PATCH request have been implemented, the UDR shall respond with 204 No Content response; if some of the modification instructions in the PATCH request have been discarded, and the NF service consumer has included in the supported-feature query parameter the "PatchReport" feature number, the UDR shall respond with PatchResult. | | | | |

### 5.2.14A Resource: PpProfileData

#### 5.2.14A.1 Description

This resource represents the subscribed Parameter Provision Profile Data for a UE. It is queried by the UDM.

This resource is modelled with the Document resource archetype (see clause C.1 of 3GPP TS 29.501 [7]).

#### 5.2.14A.2 Resource Definition

Resource URI: {apiRoot}/nudr-dr/<apiVersion>/subscription-data/{ueId}/pp-profile-data

This resource shall support the resource URI variables defined in table 5.2.14A.2-1.

Table 5.2.14A.2-1: Resource URI variables for this resource

|  |  |
| --- | --- |
| Name | Definition |
| apiRoot | See clause 6.1.1 |
| ueId | Represents the Subscription Identifier SUPI or GPSI (see 3GPP TS 23.501 [4] clause 5.9.2)  pattern: See pattern of type VarUeId in 3GPP TS 29.571 [3] |

#### 5.2.14A.3 Resource Standard Methods

##### 5.2.14A.3.1 GET

This method shall support the URI query parameters specified in table 5.2.14A.3.1-1.

Table 5.2.14A.3.1-1: URI query parameters supported by the GET method on this resource

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Name | Data type | P | Cardinality | Description |
| supported-features | SupportedFeatures | O | 0..1 | see 3GPP TS 29.500 [8] clause 6.6 |

This method shall support the request data structures specified in table 5.2.14A.3.1-2 and the response data structures and response codes specified in table 5.2.14A.3.1-3.

Table 5.2.14A.3.1-2: Data structures supported by the GET Request Body on this resource

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

Table 5.2.14A.3.1-3: Data structures supported by the GET Response Body on this resource

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Data type | P | Cardinality | Response  codes | Description |
| PpProfileData | M | 1 | 200 OK | Upon success, a response body containing the Parameter Provision Profile that corresponds to the provided ueId |
| NOTE: In addition, common data structures as listed in table 5.5-1 are supported. | | | | |

### 5.2.14B Resource: ProvisionedParameterDataEntry

#### 5.2.14B.1 Description

This resource represents an Entry under the Provisioned Parameter Data store for a UE. It is triggered by the AF/NEF via the UDM to update or retrieve the provisioned data stored for the subscriber.

This resource is modelled with the Document resource archetype (see clause C.1 of 3GPP TS 29.501 [7]).

#### 5.2.14B.2 Resource Definition

Resource URI: {apiRoot}/nudr-dr/<apiVersion>/subscription-data/{ueId}/pp-data-store/{afInstanceId}

This resource shall support the resource URI variables defined in table 5.2.14B.2-1.

Table 5.2.14B.2-1: Resource URI variables for this resource

|  |  |
| --- | --- |
| Name | Definition |
| apiRoot | See 3GPP TS 29.504 [2] clause 6.1.1 |
| ueId | Represents the Subscription Identifier SUPI, GPSI or Group Id or anyUE (see 3GPP TS 23.501 [4] clause 5.9.2)  - If representing a single UE, this parameter shall contain the GPSI or SUPI.  pattern: See pattern of type VarUeId 3GPP TS 29.571 [3]  - If representing a group of UEs, this parameter shall contain the External GroupId.  pattern: "^extgroupid-[^@]+@[^@]+$"  - If representing any UE, this parameter shall contain "anyUE".  pattern: "^anyUE$" |
| afInstanceId | The string identifying the originating AF |

#### 5.2.14B.3 Resource Standard Methods

##### 5.2.14B.3.1 PUT

This method shall support the URI query parameters specified in table 5.2.14B.3.1-1.

Table 5.2.14B.3.1-1: URI query parameters supported by the PUT method on this resource

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

This method shall support the request data structures specified in table 5.2.14B.3.1-2 and the response data structures and response codes specified in table 5.2.14B.3.1-3.

Table 5.2.14B.3.1-2: Data structures supported by the PUT Request Body on this resource

|  |  |  |  |
| --- | --- | --- | --- |
| Data type | P | Cardinality | Description |
| PpDataEntry | M | 1 | Contains a Parameter Provisioning Data entry |

Table 5.2.14B.3.1-4: Data structures supported by the PUT Response Body on this resource

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Data type | P | Cardinality | Response  codes | Description |
| PpDataEntry | M | 1 | 201 Created | Indicates a successful creation of the resource. |
| n/a |  |  | 204 No Content | Indicates a successful update of the resource. An empty response shall be returned. |
| ProblemDetails | O | 0..1 | 403 Forbidden | The "cause" attribute may be used to indicate one of the following application errors:  - CREATION\_NOT\_ALLOWED |
| ProblemDetails | O | 0..1 | 404 Not Found | The "cause" attribute may be used to indicate one of the following application errors:  - USER\_NOT\_FOUND |
| NOTE: In addition, common data structures as listed in table 5.2.7.1-1 of 3GPP TS 29.500 [4] are supported. | | | | |

##### 5.2.14B.3.2 DELETE

This method shall support the URI query parameters specified in table 5.2.14B.3.2-1.

Table 5.2.14B.3.2-1: URI query parameters supported by the DELETE method on this resource

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

This method shall support the request data structures specified in table 5.2.14B.3.2-2 and the response data structures and response codes specified in table 5.2.14B.3.2-3.

Table 5.2.14B.3.2-2: Data structures supported by the DELETE Request Body on this resource

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

Table 5.2.14B.3.2-2: Data structures supported by the DELETE Response Body on this resource

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Data type | P | Cardinality | Response  codes | Description |
| n/a |  |  | 204 No Content | Upon success, an empty response body shall be returned |
| ProblemDetails | O | 0..1 | 404 Not Found | The "cause" attribute may be used to indicate one of the following application errors:  - USER\_NOT\_FOUND |
| NOTE: In addition, common data structures as listed in table 5.2.7.1-1 of 3GPP TS 29.500 [4] are supported. | | | | |

##### 5.2.14B.3.3 GET

This method retrieves the provisioned data of a given UE.

This method shall support the URI query parameters specified in table 5.2.14B.3.3-1.

Table 5.2.14B.3.3-1: URI query parameters supported by the GET method on this resource

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Name | Data type | P | Cardinality | Description |
| supported-features | SupportedFeatures | O | 0..1 | see 3GPP TS 29.500 [8] clause 6.6 |

This method shall support the request data structures specified in table 5.2.14B.4.1-2 and the response data structures and response codes specified in table 5.2.14B.4.1-3.

Table 5.2.14B.3.3-2: Data structures supported by the GET Request Body on this resource

|  |  |  |  |
| --- | --- | --- | --- |
| Data type | P | Cardinality | Description |
| N/A |  |  |  |

Table 5.2.14B.3.3-3: Data structures supported by the GET Response Body on this resource

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Data type | P | Cardinality | Response  codes | Description |
| PpDataEntry | M | 1 | 200 OK | Upon success, a response body is returned containing the provisioned data entry of the UE. |

### 5.2.14C Resource: ProvisionedParameterDataEntries

#### 5.2.14C.1 Description

This resource represents all the Entries under the Provisioned Parameter Data store for a UE. It is invoked by the UDM to obtain all or multiple Entries under the Provisioned Parameter Data store for a UE.

This resource is modelled with the Document resource archetype (see clause C.1 of 3GPP TS 29.501 [7]).

#### 5.2.14C.2 Resource Definition

Resource URI: {apiRoot}/nudr-dr/<apiVersion>/subscription-data/{ueId}/pp-data-store

This resource shall support the resource URI variables defined in table 5.2.14C.2-1.

Table 5.2.14C.2-1: Resource URI variables for this resource

|  |  |
| --- | --- |
| Name | Definition |
| apiRoot | See 3GPP TS 29.504 [2] clause 6.1.1 |
| ueId | Represents the Subscription Identifier SUPI, GPSI or Group Id or anyUE (see 3GPP TS 23.501 [4] clause 5.9.2)  - If representing a single UE, this parameter shall contain the GPSI or SUPI.  pattern: See pattern of type VarUeId 3GPP TS 29.571 [3]  - If representing a group of UEs, this parameter shall contain the External GroupId.  pattern: "^extgroupid-[^@]+@[^@]+$"  - If representing any UE, this parameter shall contain "anyUE".  pattern: "^anyUE$" |

##### 5.2.14C.3.1 GET

This method retrieves the provisioned data of a given UE.

This method shall support the URI query parameters specified in table 5.2.14C.3.1-1.

Table 5.2.14C.3.1-1: URI query parameters supported by the GET method on this resource

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Name | Data type | P | Cardinality | Description |
| supported-features | SupportedFeatures | O | 0..1 | see 3GPP TS 29.500 [8] clause 6.6 |

This method shall support the request data structures specified in table 5.2.14C.4.1-2 and the response data structures and response codes specified in table 5.2.14C.4.1-3.

Table 5.2.14C.3.1-2: Data structures supported by the GET Request Body on this resource

|  |  |  |  |
| --- | --- | --- | --- |
| Data type | P | Cardinality | Description |
| N/A |  |  |  |

Table 5.2.14C.3.1-3: Data structures supported by the GET Response Body on this resource

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Data type | P | Cardinality | Response  codes | Description |
| PpDataEntryList | M | 1 | 200 OK | Upon success, a response body is returned containing the provisioned data entry of the UE. |

### 5.2.15 Resource: SMSSubscriptionData

#### 5.2.15.1 Description

This resource represents the subscribed SMS Subscription Data for a SUPI for use in a serving PLMN. It is queried by the AMF via the UDM after registering.

This resource is modelled with the Document resource archetype (see clause C.1 of 3GPP TS 29.501 [7]).

#### 5.2.15.2 Resource Definition

Resource URI: {apiRoot}/nudr-dr/<apiVersion>/subscription-data/{ueId}/{serving-plmn-id}/provisioned-data/sms-data

This resource shall support the resource URI variables defined in table 5.2.15.2-1.

Table 5.2.15.2-1: Resource URI variables for this resource

|  |  |
| --- | --- |
| Name | Definition |
| apiRoot | See 3GPP TS 29.504 [2] clause 6.1.1 |
| UeId | Represents the Subscription Identifier SUPI or GPSI (see 3GPP TS 23.501 [4] clause 5.9.2)  pattern: See pattern of type VarUeId 3GPP TS 29.571 [3] |
| servingPlmnId | Represents the Serving PLMN ID (consisting of MCC, MNC) or SNPN (consisting of MCC, MNC and NID); see clauses 12.1 and 17.2 in 3GPP TS 23.003 [5].  pattern: "^[0-9]{5,6}(-[A-Fa-f0-9]{11})?$" |

#### 5.2.15.3 Resource Standard Methods

##### 5.2.15.3.1 GET

This method shall support the URI query parameters specified in table 5.2.15.3.1-1.

Table 5.2.15.3.1-1: URI query parameters supported by the GET method on this resource

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Name | Data type | P | Cardinality | Description |
| supported-features | SupportedFeatures | O | 0..1 | see 3GPP TS 29.500 [8] clause 6.6 |

This method shall support the request data structures specified in table 5.2.15.3.1-2 and the response data structures and response codes specified in table 5.2.15.3.1-3.

Table 5.2.15.3.1-2: Data structures supported by the GET Request Body on this resource

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

Table 5.2.15.3.1-3: Data structures supported by the GET Response Body on this resource

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Data type | P | Cardinality | Response  codes | Description |
| SmsSubscriptionData | M | 1 | 200 OK | Upon success, a response body containing the SMS Management Subscription Data shall be returned. |
| NOTE: In addition common data structures as listed in table 5.5-1 are supported. | | | | |

### 5.2.16 Resource: SdmSubscriptions

#### 5.2.16.1 Description

This resource represents the collection of SDM Subscriptions for a UE.

This resource is modelled with the Collection resource archetype (see clause C.1 of 3GPP TS 29.501 [7]).

#### 5.2.16.2 Resource Definition

Resource URI: {apiRoot}/nudr-dr/<apiVersion>/subscription-data/{ueId}/context-data/sdm-subscriptions

This resource shall support the resource URI variables defined in table 5.2.16.2-1.

Table 5.2.16.2-1: Resource URI variables for this resource

|  |  |
| --- | --- |
| Name | Definition |
| apiRoot | See 3GPP TS 29.504 [2] clause 6.1.1 |
| ueId | Represents the Subscription Identifier SUPI or GPSI (see 3GPP TS 23.501 [4] clause 5.9.2)  pattern: See pattern of type VarUeId 3GPP TS 29.571 [3] |

#### 5.2.16.3 Resource Standard Methods

##### 5.2.16.3.1 GET

This method shall support the URI query parameters specified in table 5.2.16.3.1-1.

Table 5.2.16.3.1-1: URI query parameters supported by the GET method on this resource

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Name | Data type | P | Cardinality | Description |
| supported-features | SupportedFeatures | O | 0..1 | see 3GPP TS 29.500 [8] clause 6.6 |

This method shall support the request data structures specified in table 5.2.16.3.1-2 and the response data structures and response codes specified in table 5.2.16.3.1-3.

Table 5.2.16.3.1-2: Data structures supported by the GET Request Body on this resource

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

Table 5.2.16.3.1-3: Data structures supported by the GET Response Body on this resource

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Data type | P | Cardinality | Response  codes | Description |
| array(SdmSubscription) | M | 1..N | 200 OK | Upon success, a response body containing the individual SDM subscriptions shall be returned. |
| NOTE: In addition common data structures as listed in table 5.5-1 are supported. | | | | |

##### 5.2.16.3.2 POST

This method shall support the URI query parameters specified in table 5.2.16.3.2-1.

Table 5.2.16.3.2-1: URI query parameters supported by the POST method on this resource

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

This method shall support the request data structures specified in table 5.2.16.3.1-2 and the response data structures and response codes specified in table 5.2.16.3.1-3.

Table 5.2.16.3.2-2: Data structures supported by the POST Request Body on this resource

|  |  |  |  |
| --- | --- | --- | --- |
| Data type | P | Cardinality | Description |
| SdmSubscription | M | 1 | Identifies the subscriber data subscription to be stored in the UDR. |

If the uniqueSubscription attribute is set to true in the sdmSubscription object, the UDR shall only allow one UE based sdmSubscription per UE per NF service consumer identified by the ueId in URI and NfInstanceId in SdmSubscription, and if additional filter criteria (e.g. dnn and/or singleNssai) are present in the sdmSubscription, per filter criteria (see 3GPP TS 29.503 [6], clause 5.2.2.3.2).

If the UDR detects that a subscription for the criteria already exist in the UDR, the UDR shall replace the old SdmSubscription with the new one.

Table 5.2.16.3.2-3: Data structures supported by the POST Response Body on this resource

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Data type | P | Cardinality | Response  codes | Description |
| SdmSubscription | M | 1 | 201 Created | Upon success, a response body containing a representation of the UeId's Individual subscription resource shall be returned.  The HTTP response shall include a "Location" HTTP header that contains the resource URI of the created resource. |
| NOTE: In addition common data structures as listed in table 5.5-1 are supported. | | | | |

### 5.2.17 Resource: IndividualSdmSubscription

#### 5.2.17.1 Description

This resource represents an individual SDM Subscription for a UE.

This resource is modelled with the Document resource archetype (see clause C.1 of 3GPP TS 29.501 [7]).

#### 5.2.17.2 Resource Definition

Resource URI: {apiRoot}/nudr-dr/<apiVersion>/subscription-data/{ueId}/context-data/sdm-subscriptions/{subsId}

This resource shall support the resource URI variables defined in table 5.2.17.2-1.

Table 5.2.17.2-1: Resource URI variables for this resource

|  |  |
| --- | --- |
| Name | Definition |
| apiRoot | See 3GPP TS 29.504 [2] clause 6.1.1 |
| ueId | Represents the Subscription Identifier SUPI or GPSI (see 3GPP TS 23.501 [4] clause 5.9.2)  pattern: See pattern of type VarUeId 3GPP TS 29.571 [3] |
| subsId | Identifier of the subscription (as allocated by the UDR) |

#### 5.2.17.3 Resource Standard Methods

##### 5.2.17.3.1 PUT

This method shall support the URI query parameters specified in table 5.2.17.3.1-1.

Table 5.2.17.3.1-1: URI query parameters supported by the PUT method on this resource

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

This method shall support the request data structures specified in table 5.2.17.3.1-2 and the response data structures and response codes specified in table 5.2.17.3.1-3.

Table 5.2.17.3.1-2: Data structures supported by the PUT Request Body on this resource

|  |  |  |  |
| --- | --- | --- | --- |
| Data type | P | Cardinality | Description |
| SdmSubscription | M | 1 | The individual SDM subscription that is to be stored |

Table 5.2.17.3.1-3: Data structures supported by the PUT Response Body on this resource

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Data type | P | Cardinality | Response  codes | Description |
| n/a |  |  | 204 No Content | Upon success, an empty response body shall be returned. |
| ProblemDetails | O | 0..1 | 404 Not Found | If the resource does not exist, a response code of 404 Not Found shall be returned. |
| NOTE: In addition common data structures as listed in table 5.5-1 are supported. | | | | |

##### 5.2.17.3.2 DELETE

This method shall support the URI query parameters specified in table 5.2.17.3.2-1.

Table 5.2.17.3.2-1: URI query parameters supported by the DELETE method on this resource

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

This method shall support the request data structures specified in table 5.2.17.3.2-2 and the response data structures and response codes specified in table 5.2.17.3.2-3.

Table 5.2.17.3.2-2: Data structures supported by the DELETE Request Body on this resource

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

Table 5.2.17.3.2-3: Data structures supported by the DELETE Response Body on this resource

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Data type | P | Cardinality | Response  codes | Description |
| n/a |  |  | 204 No Content | Upon success, an empty response body shall be returned. |
| ProblemDetails | O | 0..1 | 404 Not Found | The "cause" attribute may be used to indicate one of the following application errors:  - USER\_NOT\_FOUND  - DATA\_NOT\_FOUND |
| NOTE: In addition common data structures as listed in table 5.5-1 are supported. | | | | |

##### 5.2.17.3.3 PATCH

This method shall support the URI query parameters specified in table 5.2.17.3.3-1.

Table 5.2.17.3.3-1: URI query parameters supported by the PATCH method on this resource

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Name | Data type | P | Cardinality | Description |
| supported-features | SupportedFeatures | O | 0..1 | see 3GPP TS 29.500 [8] clause 6.6 |

This method shall support the request data structures specified in table 5.2.17.3.3-2 and the response data structures and response codes specified in table 5.2.17.3.3-3.

Table 5.2.17.3.3-2: Data structures supported by the PATCH Request Body on this resource

|  |  |  |  |
| --- | --- | --- | --- |
| Data type | P | Cardinality | Description |
| array(PatchItem) | M | 1..N | Contains the delta data to the Individual SDM Subscription data. |

Table 5.2.17.3.3-3: Data structures supported by the PATCH Response Body on this resource

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Data type | P | Cardinality | Response  codes | Description |
| n/a |  |  | 204 No Content | Upon successful modification, there is no body in the response message. (NOTE 2) |
| PatchResult | M | 1 | 200 OK | Upon success, the execution report is returned. (NOTE 2) |
| ProblemDetails | O | 0..1 | 403 Forbidden | If one or more attributes are not allowed to be modified according to e.g. policy or local configuration, then  the invalidParams attribute shall contain the JSON pointers of attributes which are not allowed to be modified, and  the cause attribute shall be set to "MODIFICATION\_NOT\_ALLOWED", see 3GPP TS 29.500 [8] table 5.2.7.2-1. |
| NOTE 1: In addition common data structures as listed in table 5.5-1 are supported.  NOTE 2: If all the modification instructions in the PATCH request have been implemented, the UDR shall respond with 204 No Content response; if some of the modification instructions in the PATCH request have been discarded, and the NF service consumer has included in the supported-feature query parameter the "PatchReport" feature number, the UDR shall respond with PatchResult. | | | | |

##### 5.2.17.3.4 GET

This method shall support the URI query parameters specified in table 5.2.17.3.4-1.

Table 5.2.17.3.4-1: URI query parameters supported by the GET method on this resource

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

This method shall support the request data structures specified in table 5.2.17.3.4-2 and the response data structures and response codes specified in table 5.2.17.3.4-3.

Table 5.2.17.3.4-2: Data structures supported by the GET Request Body on this resource

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

Table 5.2.17.3.4-3: Data structures supported by the GET Response Body on this resource

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Data type | P | Cardinality | Response  codes | Description |
| SdmSubscription | M | 1 | 200 OK | Upon success, a response body containing the individual SDM subscriptions shall be returned. |
| NOTE: In addition common data structures as listed in table 5.5-1 are supported. | | | | |

### 5.2.17A Resource: HssSdmSubscriptionInfo

#### 5.2.17A.1 Description

This resource represents information relevant to an individual SDM Subscription for a UE. The UDM may need to consume the Nhss\_SDM\_Subscribe service operation to subscribe at the HSS (see 3GPP TS 29.563 [20]). After successful subscription at the HSS, the UDM needs to store within the UDR related information, e.g. the SubscriptionId allocated by the HSS.

This resource is modelled with the Document resource archetype (see clause C.1 of 3GPP TS 29.501 [7]).

#### 5.2.17A.2 Resource Definition

Resource URI: {apiRoot}/nudr-dr/<apiVersion>/subscription-data/{ueId}/context-data/sdm-subscriptions/{subsId}/hss-sdm-subscriptions

This resource shall support the resource URI variables defined in table 5.2.17A.2-1.

Table 5.2.17A.2-1: Resource URI variables for this resource

|  |  |
| --- | --- |
| Name | Definition |
| apiRoot | See 3GPP TS 29.504 [2] clause 6.1.1 |
| ueId | Represents the Subscription Identifier SUPI or GPSI (see 3GPP TS 23.501 [4] clause 5.9.2)  pattern: See pattern of type VarUeId in 3GPP TS 29.571 [3] |
| subsId | Identifier of the subscription (allocated by the UDM) |

#### 5.2.17A.3 Resource Standard Methods

##### 5.2.17A.3.1 PUT

This method shall support the URI query parameters specified in table 5.2.17A.3.1-1.

Table 5.2.17A.3.1-1: URI query parameters supported by the PUT method on this resource

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

This method shall support the request data structures specified in table 5.2.17A.3.1-2 and the response data structures, and response codes specified in table 5.2.17A.3.1-3.

Table 5.2.17A.3.1-2: Data structures supported by the PUT Request Body on this resource

|  |  |  |  |
| --- | --- | --- | --- |
| Data type | P | Cardinality | Description |
| HssSubscriptionInfo | M | 1 | HSS SDM subscription info |

Table 5.2.17A.3.1-3: Data structures supported by the PUT Response Body on this resource

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Data type | P | Cardinality | Response  codes | Description |
| n/a |  |  | 204 No Content | Upon success, an empty response body shall be returned. |
| NOTE: In addition, common data structures as listed in table 5.5-1 are supported. | | | | |

##### 5.2.17A.3.2 DELETE

This method shall support the URI query parameters specified in table 5.2.17A.3.2-1.

Table 5.2.17A.3.2-1: URI query parameters supported by the DELETE method on this resource

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

This method shall support the request data structures specified in table 5.2.17A.3.2-2 and the response data structures, and response codes specified in table 5.2.17A.3.2-3.

Table 5.2.17A.3.2-2: Data structures supported by the DELETE Request Body on this resource

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

Table 5.2.17A.3.2-3: Data structures supported by the DELETE Response Body on this resource

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Data type | P | Cardinality | Response  codes | Description |
| n/a |  |  | 204 No Content | Upon success, an empty response body shall be returned. |
| NOTE: In addition, common data structures as listed in table 5.5-1 are supported. | | | | |

##### 5.2.17A.3.3 GET

This method shall support the URI query parameters specified in table 5.2.17A.3.3-1.

Table 5.2.17A.3.3-1: URI query parameters supported by the GET method on this resource

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

This method shall support the request data structures specified in table 5.2.17A.3.3-2 and the response data structures and response codes specified in table 5.2.17A.3.3-3.

Table 5.2.17A.3.3-2: Data structures supported by the GET Request Body on this resource

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

Table 5.2.17A.3.3-3: Data structures supported by the GET Response Body on this resource

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Data type | P | Cardinality | Response  codes | Description |
| HssSubscriptionInfo | M | 1 | 200 OK | Upon success, a response body containing HSS SDM Subscription Info shall be returned. |
| NOTE: In addition, common data structures as listed in table 5.5-1 are supported. | | | | |

##### 5.2.17A.3.4 PATCH

This method shall support the URI query parameters specified in table 5.2.17A.3.4-1.

Table 5.2.17A.3.4-1: URI query parameters supported by the PATCH method on this resource

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Name | Data type | P | Cardinality | Description |
| supported-features | SupportedFeatures | O | 0..1 | see 3GPP TS 29.500 [4] clause 6.6 |

This method shall support the request data structures specified in table 5.2.17A.3.2-2 and the response data structures, and response codes specified in table 5.2.17A.3.4-3.

Table 5.2.17A.3.4-2: Data structures supported by the PATCH Request Body on this resource

|  |  |  |  |
| --- | --- | --- | --- |
| Data type | P | Cardinality | Description |
| array(PatchItem) | M | 1..N | Contains the delta data to the provisioned parameter data |

Table 5.2.17A.3.4-3: Data structures supported by the PATCH Response Body on this resource

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Data type | P | Cardinality | Response  codes | Description |
| n/a |  |  | 204 No Content | Upon successful modification there is no body in the response message. (NOTE 2) |
| PatchResult | M | 1 | 200 OK | Upon success, the execution report is returned. (NOTE 2) |
| ProblemDetails | O | 0..1 | 403 Forbidden | If one or more attributes are not allowed to be modified according to e.g. policy or local configuration, then the invalidParams attribute shall contain the JSON pointers of attributes which are not allowed to be modified, and the cause attribute shall be set to "MODIFICATION\_NOT\_ALLOWED", see 3GPP TS 29.500 [8] table 5.2.7.2-1. |
| NOTE 1: In addition common data structures as listed in table 5.5-1 are supported.  NOTE 2: If all the modification instructions in the PATCH request have been implemented, the UDR shall respond with 204 No Content response; if some of the modification instructions in the PATCH request have been discarded, and the NF service consumer has included in the supported-feature query parameter the "PatchReport" feature number, the UDR shall respond with PatchResult. | | | | |

### 5.2.18 Resource: EeSubscriptions

#### 5.2.18.1 Description

This resource represents the collection of EE Subscriptions for a UE.

This resource is modelled with the Collection resource archetype (see clause C.1 of 3GPP TS 29.501 [7]).

#### 5.2.18.2 Resource Definition

Resource URI: {apiRoot}/nudr-dr/<apiVersion>/subscription-data/{ueId}/context-data/ee-subscriptions

This resource shall support the resource URI variables defined in table 5.2.18.2-1.

Table 5.2.18.2-1: Resource URI variables for this resource

|  |  |
| --- | --- |
| Name | Definition |
| apiRoot | See 3GPP TS 29.504 [2] clause 6.1.1 |
| ueId | Represents the Subscription Identifier SUPI or GPSI (see 3GPP TS 23.501 [4] clause 5.9.2)  pattern: See pattern of type VarUeId 3GPP TS 29.571 [3] |

#### 5.2.18.3 Resource Standard Methods

##### 5.2.18.3.1 GET

This method shall support the URI query parameters specified in table 5.2.18.3.1-1.

Table 5.2.18.3.1-1: URI query parameters supported by the GET method on this resource

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Name | Data type | P | Cardinality | Description |
| supported-features | SupportedFeatures | O | 0..1 | see 3GPP TS 29.500 [8] clause 6.6 |
| event-types | array(EventType) | O | 1..N | Indicates only to return the EE subscription data which contains at least one of the indicated Event Types and returned monitoring configuration data in EE subscription data only contains the data related to the indicated event types. |
| nf-identifiers | array(NfIdentifier) | O | 1..N | Indicates to return relevant EE subscription data along with associated Subscription resources created and stored while initiating subscriptions to NFs identified by NfType and NfInstanceId |

This method shall support the request data structures specified in table 5.2.18.3.1-2 and the response data structures and response codes specified in table 5.2.18.3.1-3.

Table 5.2.18.3.1-2: Data structures supported by the GET Request Body on this resource

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

Table 5.2.18.3.1-3: Data structures supported by the GET Response Body on this resource

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Data type | P | Cardinality | Response  codes | Description |
| array(EeSubscriptionExt) | M | 1..N | 200 OK | Upon success, a response body containing the individual EE subscriptions shall be returned. |
| NOTE: In addition common data structures as listed in table 5.5-1 are supported. | | | | |

##### 5.2.18.3.2 POST

This method shall support the URI query parameters specified in table 5.2.18.3.2-1.

Table 5.2.18.3.2-1: URI query parameters supported by the POST method on this resource

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

This method shall support the request data structures specified in table 5.2.18.3.1-2 and the response data structures and response codes specified in table 5.2.18.3.1-3.

Table 5.2.18.3.2-2: Data structures supported by the POST Request Body on this resource

|  |  |  |  |
| --- | --- | --- | --- |
| Data type | P | Cardinality | Description |
| EeSubscription | M | 1 | Identifies the subscriber data subscription to be stored in the UDR. |

Table 5.2.18.3.2-3: Data structures supported by the POST Response Body on this resource

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Data type | P | Cardinality | Response  codes | Description |
| EeSubscription | M | 1 | 201 Created | Upon success, a response body containing a representation of the UeId's Individual subscription resource shall be returned.  The HTTP response shall include a "Location" HTTP header that contains the resource URI of the created resource. |
| NOTE: In addition common data structures as listed in table 5.5-1 are supported. | | | | |

### 5.2.19 Resource: IndividualEeSubscription

#### 5.2.19.1 Description

This resource represents an individual EE Subscription for a UE.

This resource is modelled with the Document resource archetype (see clause C.1 of 3GPP TS 29.501 [7]).

#### 5.2.19.2 Resource Definition

Resource URI: {apiRoot}/nudr-dr/<apiVersion>/subscription-data/{ueId}/context-data/ee-subscriptions/{subsId}

This resource shall support the resource URI variables defined in table 5.2.19.2-1.

Table 5.2.19.2-1: Resource URI variables for this resource

|  |  |
| --- | --- |
| Name | Definition |
| apiRoot | See 3GPP TS 29.504 [2] clause 6.1.1 |
| ueId | Represents the Subscription Identifier SUPI or GPSI (see 3GPP TS 23.501 [4] clause 5.9.2)  pattern: See pattern of type VarUeId 3GPP TS 29.571 [3] |
| subsId | Identifier of the subscription (allocated by the UDR) |

#### 5.2.19.3 Resource Standard Methods

##### 5.2.19.3.1 PUT

This method shall support the URI query parameters specified in table 5.2.19.3.1-1.

Table 5.2.19.3.1-1: URI query parameters supported by the PUT method on this resource

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

This method shall support the request data structures specified in table 5.2.19.3.1-2 and the response data structures and response codes specified in table 5.2.19.3.1-3.

Table 5.2.19.3.1-2: Data structures supported by the PUT Request Body on this resource

|  |  |  |  |
| --- | --- | --- | --- |
| Data type | P | Cardinality | Description |
| EeSubscription | M | 1 | The individual EE subscription that is to be stored |

Table 5.2.19.3.1-3: Data structures supported by the PUT Response Body on this resource

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Data type | P | Cardinality | Response  codes | Description |
| n/a |  |  | 204 No Content | Upon success, an empty response body shall be returned. |
| ProblemDetails | O | 0..1 | 404 Not Found | If the resource does not exist, a response code of 404 Not Found shall be returned. |
| NOTE: In addition common data structures as listed in table 5.5-1 are supported. | | | | |

##### 5.2.19.3.2 DELETE

This method shall support the URI query parameters specified in table 5.2.19.3.2-1.

Table 5.2.19.3.2-1: URI query parameters supported by the DELETE method on this resource

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

This method shall support the request data structures specified in table 5.2.19.3.2-2 and the response data structures and response codes specified in table 5.2.19.3.2-3.

Table 5.2.19.3.2-2: Data structures supported by the DELETE Request Body on this resource

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

Table 5.2.19.3.2-3: Data structures supported by the DELETE Response Body on this resource

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Data type | P | Cardinality | Response  codes | Description |
| n/a |  |  | 204 No Content | Upon success, an empty response body shall be returned. |
| NOTE: In addition common data structures as listed in table 5.5-1 are supported. | | | | |

##### 5.2.19.3.3 PATCH

This method shall support the URI query parameters specified in table 5.2.19.3.3-1.

Table 5.2.19.3.3-1: URI query parameters supported by the PATCH method on this resource

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Name | Data type | P | Cardinality | Description |
| supported-features | SupportedFeatures | O | 0..1 | see 3GPP TS 29.500 [8] clause 6.6 |

This method shall support the request data structures specified in table 5.2.19.3.3-2 and the response data structures and response codes specified in table 5.2.19.3.3-3.

Table 5.2.19.3.3-2: Data structures supported by the PATCH Request Body on this resource

|  |  |  |  |
| --- | --- | --- | --- |
| Data type | P | Cardinality | Description |
| array(PatchItem) | M | 1..N | Contains the delta data to the Individual EE Subscription data |

Table 5.2.19.3.3-3: Data structures supported by the PATCH Response Body on this resource

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Data type | P | Cardinality | Response  codes | Description |
| n/a |  |  | 204 No Content | Upon successful modification, there is no body in the response message. (NOTE 2) |
| PatchResult | M | 1 | 200 OK | Upon success, the execution report is returned. (NOTE 2) |
| ProblemDetails | O | 0..1 | 403 Forbidden | If one or more attributes are not allowed to be modified according to e.g. policy or local configuration, then  the invalidParams attribute shall contain the JSON pointers of attributes which are not allowed to be modified, and  the cause attribute shall be set to "MODIFICATION\_NOT\_ALLOWED", see 3GPP TS 29.500 [8] table 5.2.7.2-1. |
| NOTE 1: In addition common data structures as listed in table 5.5-1 are supported.  NOTE 2: If all the modification instructions in the PATCH request have been implemented, the UDR shall respond with 204 No Content response; if some of the modification instructions in the PATCH request have been discarded, and the NF service consumer has included in the supported-feature query parameter the "PatchReport" feature number, the UDR shall respond with PatchResult. | | | | |

##### 5.2.19.3.4 GET

This method shall support the URI query parameters specified in table 5.2.19.3.4-1.

Table 5.2.19.3.4-1: URI query parameters supported by the GET method on this resource

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

This method shall support the request data structures specified in table 5.2.19.3.4-2 and the response data structures and response codes specified in table 5.2.19.3.4-3.

Table 5.2.19.3.4-2: Data structures supported by the GET Request Body on this resource

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

Table 5.2.19.3.4-3: Data structures supported by the GET Response Body on this resource

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Data type | P | Cardinality | Response  codes | Description |
| EeSubscription | M | 1 | 200 OK | Upon success, a response body containing the individual EE subscriptions shall be returned. |
| NOTE: In addition common data structures as listed in table 5.5-1 are supported. | | | | |

### 5.2.19A Resource: IndividualEeGroupSubscription

#### 5.2.19A.1 Description

This resource represents an individual EE Subscription for a group of UEs or any UE (i.e. all UEs).

This resource is modelled with the Document resource archetype (see clause C.1 of 3GPP TS 29.501 [7]).

#### 5.2.19A.2 Resource Definition

Resource URI: {apiRoot}/nudr-dr/<apiVersion>/subscription-data/group-data/{ueGroupId}/ee-subscriptions/{subsId}

This resource shall support the resource URI variables defined in table 5.2.19A.2-1.

Table 5.2.19A.2-1: Resource URI variables for this resource

|  |  |
| --- | --- |
| Name | Definition |
| apiRoot | See 3GPP TS 29.504 [2] clause 6.1.1 |
| ueGroupId | Represents the identifier of the Group of UEs. For this resource, either External Group Identifier or any UE shall be present.  Pattern: '^(extgroupid-[^@]+@[^@]+|anyUE)$' |
| subsId | Identifier of the subscription (allocated by the UDM) |

#### 5.2.19A.3 Resource Standard Methods

##### 5.2.19A.3.1 PUT

This method shall support the URI query parameters specified in table 5.2.19A.3.1-1.

Table 5.2.19A.3.1-1: URI query parameters supported by the PUT method on this resource

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

This method shall support the request data structures specified in table 5.2.19A.3.1-2 and the response data structures and response codes specified in table 5.2.19A.3.1-3.

Table 5.2.19A.3.1-2: Data structures supported by the PUT Request Body on this resource

|  |  |  |  |
| --- | --- | --- | --- |
| Data type | P | Cardinality | Description |
| EeSubscription | M | 1 | The individual EE subscription for the group of UEs that is to be stored |

Table 5.2.19A.3.1-3: Data structures supported by the PUT Response Body on this resource

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Data type | P | Cardinality | Response  codes | Description |
| n/a |  |  | 204 No Content | Upon success, an empty response body shall be returned. |
| ProblemDetails | O | 0..1 | 404 Not Found | If the resource does not exist, a response code of 404 Not Found shall be returned. |
| NOTE: In addition, common data structures as listed in table 5.5-1 are supported. | | | | |

##### 5.2.19A.3.2 DELETE

This method shall support the URI query parameters specified in table 5.2.19A.3.2-1.

Table 5.2.19A.3.2-1: URI query parameters supported by the DELETE method on this resource

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

This method shall support the request data structures specified in table 5.2.19A.3.2-2 and the response data structures and response codes specified in table 5.2.19A.3.2-3.

Table 5.2.19.3.2-2: Data structures supported by the DELETE Request Body on this resource

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

Table 5.2.19A.3.2-3: Data structures supported by the DELETE Response Body on this resource

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Data type | P | Cardinality | Response  codes | Description |
| n/a |  |  | 204 No Content | Upon success, an empty response body shall be returned. |
| NOTE: In addition, common data structures as listed in table 5.5-1 are supported. | | | | |

##### 5.2.19A.3.3 PATCH

This method shall support the URI query parameters specified in table 5.2.19A.3.3-1.

Table 5.2.19A.3.3-1: URI query parameters supported by the PATCH method on this resource

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Name | Data type | P | Cardinality | Description |
| supported-features | SupportedFeatures | O | 0..1 | see 3GPP TS 29.500 [8] clause 6.6 |

This method shall support the request data structures specified in table 5.2.19A.3.3-2 and the response data structures and response codes specified in table 5.2.19A.3.3-3.

Table 5.2.19A.3.3-2: Data structures supported by the PATCH Request Body on this resource

|  |  |  |  |
| --- | --- | --- | --- |
| Data type | P | Cardinality | Description |
| array(PatchItem) | M | 1..N | Contains the delta data to the Individual EE Group Subscription data |

Table 5.2.19A.3.3-3: Data structures supported by the PATCH Response Body on this resource

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Data type | P | Cardinality | Response  codes | Description |
| n/a |  |  | 204 No Content | Upon successful modification, there is no body in the response message. (NOTE 2) |
| PatchResult | M | 1 | 200 OK | Upon success, the execution report is returned. (NOTE 2) |
| ProblemDetails | O | 0..1 | 403 Forbidden | If one or more attributes are not allowed to be modified according to e.g. policy or local configuration, then  the invalidParams attribute shall contain the JSON pointers of attributes which are not allowed to be modified, and  the cause attribute shall be set to "MODIFICATION\_NOT\_ALLOWED", see 3GPP TS 29.500 [8] table 5.2.7.2-1. |
| NOTE 1: In addition common data structures as listed in table 5.5-1 are supported.  NOTE 2: If all the modification instructions in the PATCH request have been implemented, the UDR shall respond with 204 No Content response; if some of the modification instructions in the PATCH request have been discarded, and the NF service consumer has included in the supported-feature query parameter the "PatchReport" feature number, the UDR shall respond with PatchResult. | | | | |

##### 5.2.19A.3.4 GET

This method shall support the URI query parameters specified in table 5.2.19A.3.4-1.

Table 5.2.19A.3.4-1: URI query parameters supported by the GET method on this resource

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

This method shall support the request data structures specified in table 5.2.19A.3.4-2 and the response data structures and response codes specified in table 5.2.19A.3.4-3.

Table 5.2.19A.3.4-2: Data structures supported by the GET Request Body on this resource

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

Table 5.2.19A.3.4-3: Data structures supported by the GET Response Body on this resource

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Data type | P | Cardinality | Response  codes | Description |
| EeSubscription | M | 1 | 204 OK | Upon success, a response body containing the individual EE subscriptions for the groups of UEs shall be returned.. |
| NOTE: In addition, common data structures as listed in table 5.5-1 are supported. | | | | |

### 5.2.19B Resource: EeGroupProfileData

#### 5.2.19B.1 Description

This resource represents the subscribed Event Exposure Profile Data for a group of UEs or any UE (i.e. all UEs). It is queried by the UDM by either external group identifier or anyUE.

#### 5.2.19B.2 Resource Definition

Resource URI: {apiRoot}/nudr-dr/<apiVersion>/subscription-data/group-data/{ueGroupId}/ee-profile-data

This resource shall support the resource URI variables defined in table 5.2.19B.2-1.

Table 5.2.19B.2-1: Resource URI variables for this resource

|  |  |
| --- | --- |
| Name | Definition |
| apiRoot | See clause 6.1.1 |
| ueGroupId | Represents the identifier of the Group of UEs. For this resource, either External Group Identifier or any UE shall be present.  pattern: See pattern of type VarUeGroupId |

#### 5.2.19B.3 Resource Standard Methods

##### 5.2.19B.3.1 GET

This method shall support the URI query parameters specified in table 5.2.19B.3.1-1.

Table 5.2.19B.3.1-1: URI query parameters supported by the GET method on this resource

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Name | Data type | P | Cardinality | Description |
| supported-features | SupportedFeatures | O | 0..1 | see 3GPP TS 29.500 [8] clause 6.6 |

This method shall support the request data structures specified in table 5.2.19B.3.1-2 and the response data structures and response codes specified in table 5.2.19B.3.1-3.

Table 5.2.19B.3.1-2: Data structures supported by the GET Request Body on this resource

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

Table 5.2.19B.3.1-3: Data structures supported by the GET Response Body on this resource

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Data type | P | Cardinality | Response  codes | Description |
| EeGroupProfileData | M | 1 | 200 OK | Upon success, a response body containing the Event Exposure Profile Data for a group of UEs, which corresponds to the provided ueGroupId. |
| NOTE: In addition, common data structures as listed in table 5.5-1 are supported. | | | | |

### 5.2.19C Resource: AmfGroupSubscriptionInfo

#### 5.2.19C.1 Description

This resource represents information relevant to an individual EE Subscription for a group of UE or any UE. Depending on the Event Types of the EeSubscription, the UDM may need to consume the Namf\_EventExposure\_Subscribe service operation to subscribe at the AMF (see 3GPP TS 29.518 [13]). After successful subscription at the AMF, the UDM needs to store within the UDR related information, e.g. the SubscriptionId allocated by the AMF.

This resource is modelled with the Document resource archetype (see clause C.1 of 3GPP TS 29.501 [7]).

#### 5.2.19C.2 Resource Definition

Resource URI: {apiRoot}/nudr-dr/<apiVersion>/subscription-data/group-data/{ueGroupId}/ee-subscriptions/{subsId}/amf-subscriptions

This resource shall support the resource URI variables defined in table 5.2.19C.2-1.

Table 5.2.19C.2-1: Resour ce URI variables for this resource

|  |  |
| --- | --- |
| Name | Definition |
| apiRoot | See 3GPP TS 29.504 [2] clause 6.1.1 |
| ueGroupId | Represents the identifier of the Group of UEs. For this resource, either External Group Identifier or any UE shall be present.  Pattern: '^(extgroupid-[^@]+@[^@]+|anyUE)$' |
| subsId | Identifier of the subscription (allocated by the UDR) |

#### 5.2.19C.3 Resource Standard Methods

##### 5.2.19C.3.1 PUT

This method shall support the URI query parameters specified in table 5.2.19C.3.1-1.

Table 5.2.19C.3.1-1: URI query parameters supported by the PUT method on this resource

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

This method shall support the request data structures specified in table 5.2.19C.3.1-2 and the response data structures, and response codes specified in table 5.2.19C.3.1-3.

Table 5.2.19C.3.1-2: Data structures supported by the PUT Request Body on this resource

|  |  |  |  |
| --- | --- | --- | --- |
| Data type | P | Cardinality | Description |
| array(AmfSubscriptionInfo) | M | 1..N | AMF subscription info for one or two AMFs |

Table 5.2.19C.3.1-3: Data structures supported by the PUT Response Body on this resource

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Data type | P | Cardinality | Response  codes | Description |
| n/a |  |  | 204 No Content | Upon successful update of this resource, an empty response body shall be returned. |
| array(AmfSubscriptionInfo) | M | 1..N | 201 Created | Upon successful update of this resource, a representation of the created resource containing an array of the AmfSubscriptionInfo as allocated by the UDR shall be returned. |
| NOTE: In addition, common data structures as listed in table 5.5-1 are supported. | | | | |

##### 5.2.19C.3.2 DELETE

This method shall support the URI query parameters specified in table 5.2.19C.3.2-1.

Table 5.2.19C.3.2-1: URI query parameters supported by the DELETE method on this resource

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

This method shall support the request data structures specified in table 5.2.19C.3.2-2 and the response data structures, and response codes specified in table 5.2.19C.3.2-3.

Table 5.2.19C.3.2-2: Data structures supported by the DELETE Request Body on this resource

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

Table 5.2.19C.3.2-3: Data structures supported by the DELETE Response Body on this resource

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Data type | P | Cardinality | Response  codes | Description |
| n/a |  |  | 204 No Content | Upon success, an empty response body shall be returned. |
| NOTE: In addition common data structures as listed in table 5.5-1 are supported. | | | | |

##### 5.2.19C.3.3 GET

This method shall support the URI query parameters specified in table 5.2.19C.3.3-1.

Table 5.2.19C.3.3-1: URI query parameters supported by the GET method on this resource

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

This method shall support the request data structures specified in table 5.2.19C.3.3-2 and the response data structure and response codes specified in table 5.2.31.3.3-3.

Table 5.2.19C.3.3-2: Data structures supported by the GET Request Body on this resource

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

Table 5.2.19C.3.3-3: Data structures supported by the GET Response Body on this resource

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Data type | P | Cardinality | Response  codes | Description |
| array(AmfSubscriptionInfo) | M | 1..N | 200 OK | Upon success, a response body containing AMF Subscription Infos shall be returned. |
| NOTE: In addition common data structures as listed in table 5.5-1 are supported. | | | | |

##### 5.2.31.3.4 PATCH

This method is used to modify the AMF subscription Infos in the UDR.

This method shall support the URI query parameters specified in table 5.2.19C.3.4-1.

Table 5.2.19C.3.4-1: URI query parameters supported by the PATCH method on this resource

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Name | Data type | P | Cardinality | Description |
| supported-features | SupportedFeatures | O | 0..1 | see 3GPP TS 29.500 [8] clause 6.6 |

This method shall support the request data structures specified in table 5.2.19C.3.2-2 and the response data structures and response codes specified in table 5.2.19C.3.4-3.

Table 5.2.19C.3.4-2: Data structures supported by the PATCH Request Body on this resource

|  |  |  |  |
| --- | --- | --- | --- |
| Data type | P | Cardinality | Description |
| array(PatchItem) | M | 1..N | Contains the delta data to the provisioned parameter data |

Table 5.2.19C.3.4-3: Data structures supported by the PATCH Response Body on this resource

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Data type | P | Cardinality | Response  codes | Description |
| n/a |  |  | 204 No Content | Upon successful modification there is no body in the response message. (NOTE 2) |
| PatchResult | M | 1 | 200 OK | Upon success, the execution report is returned. (NOTE 2) |
| ProblemDetails | O | 0..1 | 403 Forbidden | If one or more attributes are not allowed to be modified according to e.g. policy or local configuration, then the invalidParams attribute shall contain the JSON pointers of attributes which are not allowed to be modified, and the cause attribute shall be set to "MODIFICATION\_NOT\_ALLOWED", see 3GPP TS 29.500 [8] table 5.2.7.2-1. |
| NOTE 1: In addition common data structures as listed in table 5.5-1 are supported.  NOTE 2: If all the modification instructions in the PATCH request have been implemented, the UDR shall respond with 204 No Content response; if some of the modification instructions in the PATCH request have been discarded, and the NF service consumer has included in the supported-feature query parameter the "PatchReport" feature number, the UDR shall respond with PatchResult. | | | | |

### 5.2.19D Resource: SmfGroupSubscriptionInfo

#### 5.2.19D.1 Description

This resource represents information relevant to an individual EE Subscription for a group of UE or any UE. Depending on the Event Types of the EeSubscription, the UDM may need to consume the Nsmf\_EventExposure\_Subscribe service operation to subscribe at the SMF (see 3GPP TS 29.508 [21]). After successful subscription at the SMF, the UDM needs to store within the UDR related information, e.g. the SubscriptionId allocated by the SMF.

This resource is modelled with the Document resource archetype (see clause C.1 of 3GPP TS 29.501 [7]).

#### 5.2.19D.2 Resource Definition

Resource URI: {apiRoot}/nudr-dr/<apiVersion>/subscription-data/group-data/{ueGroupId}/ee-subscriptions/{subsId}/smf-subscriptions

This resource shall support the resource URI variables defined in table 5.2.19D.2-1.

Table 5.2.19D.2-1: Resource URI variables for this resource

|  |  |
| --- | --- |
| Name | Definition |
| apiRoot | See 3GPP TS 29.504 [2] clause 6.1.1 |
| ueGroupId | Represents the identifier of the Group of UEs. For this resource, either External Group Identifier or any UE shall be present.  Pattern: '^(extgroupid-[^@]+@[^@]+|anyUE)$' |
| subsId | Identifier of the subscription (allocated by the UDR) |

#### 5.2.19D.3 Resource Standard Methods

##### 5.2.19D.3.1 PUT

This method shall support the URI query parameters specified in table 5.2.19D.3.1-1.

Table 5.2.31A.3.1-1: URI query parameters supported by the PUT method on this resource

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

This method shall support the request data structures specified in table 5.2.19D.3.1-2 and the response data structures, and response codes specified in table 5.2.19D.3.1-3.

Table 5.2.19D.3.1-2: Data structures supported by the PUT Request Body on this resource

|  |  |  |  |
| --- | --- | --- | --- |
| Data type | P | Cardinality | Description |
| SmfSubscriptionInfo | M | 1 | SMF subscription info |

Table 5.2.19D.3.1-3: Data structures supported by the PUT Response Body on this resource

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Data type | P | Cardinality | Response  codes | Description |
| n/a |  |  | 204 No Content | Upon successful update of this resource, an empty response body shall be returned. |
| SmfSubscriptionInfo | M | 1 | 201 Created | Upon successful creation of this resource, a representation of the created resource containing the SmfSubscriptionInfo as allocated by the UDR shall be returned. |
| NOTE: In addition, common data structures as listed in table 5.5-1 are supported. | | | | |

##### 5.2.19D.3.2 DELETE

This method shall support the URI query parameters specified in table 5.2.19D.3.2-1.

Table 5.2.19D.3.2-1: URI query parameters supported by the DELETE method on this resource

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

This method shall support the request data structures specified in table 5.2.19D.3.2-2 and the response data structure, and response codes specified in table 5.2.19D.3.2-3.

Table 5.2.19D.3.2-2: Data structures supported by the DELETE Request Body on this resource

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

Table 5.2.19D.3.2-3: Data structures supported by the DELETE Response Body on this resource

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Data type | P | Cardinality | Response  codes | Description |
| n/a |  |  | 204 No Content | Upon success, an empty response body shall be returned. |
| NOTE: In addition, common data structures as listed in table 5.5-1 are supported. | | | | |

##### 5.2.19D.3.3 GET

This method shall support the URI query parameters specified in table 5.2.19D.3.3-1.

Table 5.2.19D.3.3-1: URI query parameters supported by the GET method on this resource

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

This method shall support the request data structures specified in table 5.2.19D.3.3-2 and the response data structures and response codes specified in table 5.2.19D.3.3-3.

Table 5.2.19D.3.3-2: Data structures supported by the GET Request Body on this resource

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

Table 5.2.19D.3.3-3: Data structures supported by the GET Response Body on this resource

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Data type | P | Cardinality | Response  codes | Description |
| SmfSubscriptionInfo | M | 1 | 200 OK | Upon success, a response body containing SMF Subscription Infos shall be returned. |
| NOTE: In addition, common data structures as listed in table 5.5-1 are supported. | | | | |

##### 5.2.19D.3.4 PATCH

This method is used to modify the SMF subscription Infos in the UDR.

This method shall support the URI query parameters specified in table 5.2.19D.3.4-1.

Table 5.2.19D.3.4-1: URI query parameters supported by the PATCH method on this resource

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Name | Data type | P | Cardinality | Description |
| supported-features | SupportedFeatures | O | 0..1 | see 3GPP TS 29.500 [8] clause 6.6 |

This method shall support the request data structures specified in table 5.2.19D.3.2-2 and the response data structures, and response codes specified in table 5.2.19D.3.4-3.

Table 5.2.19D.3.4-2: Data structures supported by the PATCH Request Body on this resource

|  |  |  |  |
| --- | --- | --- | --- |
| Data type | P | Cardinality | Description |
| array(PatchItem) | M | 1..N | Contains the delta data to the provisioned parameter data |

Table 5.2.19D.3.4-3: Data structures supported by the PATCH Response Body on this resource

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Data type | P | Cardinality | Response  codes | Description |
| n/a |  |  | 204 No Content | Upon successful modification there is no body in the response message. (NOTE 2) |
| PatchResult | M | 1 | 200 OK | Upon success, the execution report is returned. (NOTE 2) |
| ProblemDetails | O | 0..1 | 403 Forbidden | If one or more attributes are not allowed to be modified according to e.g. policy or local configuration, then the invalidParams attribute shall contain the JSON pointers of attributes which are not allowed to be modified, and the cause attribute shall be set to "MODIFICATION\_NOT\_ALLOWED", see 3GPP TS 29.500 [8] table 5.2.7.2-1. |
| NOTE 1: In addition common data structures as listed in table 5.5-1 are supported.  NOTE 2: If all the modification instructions in the PATCH request have been implemented, the UDR shall respond with 204 No Content response; if some of the modification instructions in the PATCH request have been discarded, and the NF service consumer has included in the supported-feature query parameter the "PatchReport" feature number, the UDR shall respond with PatchResult. | | | | |

### 5.2.19E Resource: HssGroupSubscriptionInfo

#### 5.2.19E.1 Description

This resource represents information relevant to an individual EE Subscription for a group of UE. Depending on the Event Types of the EeSubscription, the UDM may need to consume the Nhss\_EventExposure\_Subscribe service operation to subscribe at the HSS (see 3GPP TS 29.562 [20]). After successful subscription at the HSS, the UDM needs to store within the UDR related information, e.g. the SubscriptionId allocated by the HSS.

This resource is modelled with the Document resource archetype (see clause C.1 of 3GPP TS 29.501 [7]).

#### 5.2.19E.2 Resource Definition

Resource URI: {apiRoot}/nudr-dr/<apiVersion>/subscription-data/group-data/{ueGroupId}/ee-subscriptions/{subsId}/hss-subscriptions

This resource shall support the resource URI variables defined in table 5.2.19E.2-1.

Table 5.2.19E.2-1: Resource URI variables for this resource

|  |  |
| --- | --- |
| Name | Definition |
| apiRoot | See 3GPP TS 29.504 [2] clause 6.1.1 |
| ueGroupId | Represents the identifier of the Group of UEs. For this resource, an External Group Identifier shall be present.  Pattern: '^(extgroupid-[^@]+@[^@])$' |
| subsId | Identifier of the subscription (allocated by the UDR) |

#### 5.2.19E.3 Resource Standard Methods

##### 5.2.19E.3.1 PUT

This method shall support the URI query parameters specified in table 5.2.19E.3.1-1.

Table 5.2.19E.3.1-1: URI query parameters supported by the PUT method on this resource

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

This method shall support the request data structures specified in table 5.2.19E.3.1-2 and the response data structures, and response codes specified in table 5.2.19E.3.1-3.

Table 5.2.19E.3.1-2: Data structures supported by the PUT Request Body on this resource

|  |  |  |  |
| --- | --- | --- | --- |
| Data type | P | Cardinality | Description |
| HssSubscriptionInfo | M | 1 | HSS subscription info |

Table 5.2.19E.3.1-3: Data structures supported by the PUT Response Body on this resource

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Data type | P | Cardinality | Response  codes | Description |
| n/a |  |  | 204 No Content | Upon success, an empty response body shall be returned. |
| HssSubscriptionInfo | M | 1 | 201 Created | Upon successful creation of this resource, a representation of the created resource containing the HssSubscriptionInfo as allocated by the UDR shall be returned. |
| NOTE: In addition, common data structures as listed in table 5.5-1 are supported. | | | | |

##### 5.2.19E.3.2 DELETE

This method shall support the URI query parameters specified in table 5.2.19E.3.2-1.

Table 5.2.19E.3.2-1: URI query parameters supported by the DELETE method on this resource

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

This method shall support the request data structures specified in table 5.2.19E.3.2-2 and the response data structures, and response codes specified in table 5.2.19E.3.2-3.

Table 5.2.19E.3.2-2: Data structures supported by the DELETE Request Body on this resource

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

Table 5.2.19E.3.2-3: Data structures supported by the DELETE Response Body on this resource

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Data type | P | Cardinality | Response  codes | Description |
| n/a |  |  | 204 No Content | Upon success, an empty response body shall be returned. |
| NOTE: In addition, common data structures as listed in table 5.5-1 are supported. | | | | |

##### 5.2.19E.3.3 GET

This method shall support the URI query parameters specified in table 5.2.19E.3.3-1.

Table 5.2.19E.3.3-1: URI query parameters supported by the GET method on this resource

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

This method shall support the request data structures specified in table 5.2.19E.3.3-2 and the response data structures and response codes specified in table 5.2.19E.3.3-3.

Table 5.2.19E.3.3-2: Data structures supported by the GET Request Body on this resource

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

Table 5.2.19E.3.3-3: Data structures supported by the GET Response Body on this resource

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Data type | P | Cardinality | Response  codes | Description |
| HssSubscriptionInfo | M | 1 | 200 OK | Upon success, a response body containing HSS Subscription Infos shall be returned. |
| NOTE: In addition, common data structures as listed in table 5.5-1 are supported. | | | | |

##### 5.2.19E.3.4 PATCH

This method is used to modify the HSS subscription Infos in the UDR.

This method shall support the URI query parameters specified in table 5.2.19E.3.4-1.

Table 5.2.19E.3.4-1: URI query parameters supported by the PATCH method on this resource

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Name | Data type | P | Cardinality | Description |
| supported-features | SupportedFeatures | O | 0..1 | see 3GPP TS 29.500 [8] clause 6.6 |

This method shall support the request data structures specified in table 5.2.19E.3.2-2 and the response data structures, and response codes specified in table 5.2.19E.3.4-3.

Table 5.2.19E.3.4-2: Data structures supported by the PATCH Request Body on this resource

|  |  |  |  |
| --- | --- | --- | --- |
| Data type | P | Cardinality | Description |
| array(PatchItem) | M | 1..N | Contains the delta data to the provisioned parameter data |

Table 5.2.19E.3.4-3: Data structures supported by the PATCH Response Body on this resource

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Data type | P | Cardinality | Response  codes | Description |
| n/a |  |  | 204 No Content | Upon successful modification there is no body in the response message. (NOTE 2) |
| PatchResult | M | 1 | 200 OK | Upon success, the execution report is returned. (NOTE 2) |
| ProblemDetails | O | 0..1 | 403 Forbidden | If one or more attributes are not allowed to be modified according to e.g. policy or local configuration, then the invalidParams attribute shall contain the JSON pointers of attributes which are not allowed to be modified, and the cause attribute shall be set to "MODIFICATION\_NOT\_ALLOWED", see 3GPP TS 29.500 [8] table 5.2.7.2-1. |
| NOTE 1: In addition common data structures as listed in table 5.5-1 are supported.  NOTE 2: If all the modification instructions in the PATCH request have been implemented, the UDR shall respond with 204 No Content response; if some of the modification instructions in the PATCH request have been discarded, and the NF service consumer has included in the supported-feature query parameter the "PatchReport" feature number, the UDR shall respond with PatchResult. | | | | |

### 5.2.20 Resource: SubscriptionDataSubscriptions

#### 5.2.20.1 Description

This resource is used to represent explicit subscriber data subscriptions to notifications.

#### 5.2.20.2 Resource Definition

Resource URI: {apiRoot}/nudr-dr/<apiVersion>/subscription-data/subs-to-notify

This resource shall support the resource URI variables defined in table 5.2.20.2-1.

Table 5.2.20.2-1: Resource URI variables for this resource

|  |  |
| --- | --- |
| Name | Definition |
| apiRoot | See 3GPP TS 29.504 [2] clause 6.1.1 |

#### 5.2.20.3 Resource Standard Methods

##### 5.2.20.3.1 POST

This method shall support the URI query parameters specified in table 5.2.20.3.1-1.

Table 5.2.20.3.1-1: URI query parameters supported by the POST method on this resource

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

This method shall support the request data structures specified in table 5.2.20.3.1-2 and the response data structures and response codes specified in table 5.2.20.3.1-3.

Table 5.2.20.3.1-2: Data structures supported by the POST Request Body on this resource

|  |  |  |  |
| --- | --- | --- | --- |
| Data type | P | Cardinality | Description |
| SubscriptionDataSubscriptions | M | 1 | Identifies the subscriber data subscription to be stored in the UDR. |

The UDR shall limit the number of subscriptions created based on the following criteria:

- For the UE based sdmSubscriptions: if the sdmSubscription object is present with the uniqueSubscription attribute is set to true, the UDR shall only allow one UE based SubscriptionDataSubscriptions per UE per NF service consumer identified by the ueId in the URI and the NfInstanceId in SdmSubscription, and if additional filter criteria (e.g. dnn and/or singleNssai) are present in the sdmSubscription, per filter criteria (see 3GPP TS 29.503 [6], clause 5.2.2.3.2).

- For shared data sdmSubscriptions: if the sdmSubscription object is present with the uniqueSubscription attribute is set to true, there shall be only one SubscriptionDataSubscriptions per NF service consumer identified by nfInstanceId inside sdmSubscription (see 3GPP TS 29.503 [6], clause 5.2.2.3.2).

- For UE based UDM subscriptions: if the uniqueSubscription attribute is set to true in the SubscriptionDataSubscription object, the UDR shall only allow one UE based SubscriptionDataSubscriptions identified by the ueId attribute.

If the UDR detects that a subscription for the criteria already exist in the UDR, the UDR shall replace the old SubscriptionDataSubscriptions with the new one.

Table 5.2.20.3.1-3: Data structures supported by the POST Response Body on this resource

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Data type | P | Cardinality | Response  codes | Description |
| SubscriptionDataSubscriptions | M | 1 | 201 Created | Upon success, a response body containing a representation of the UeId's Individual subscription resource shall be returned.  The HTTP response shall include a "Location" HTTP header that contains the resource URI of the created resource. |
| NOTE: In addition common data structures as listed in table 5.5-1 are supported. | | | | |

##### 5.2.20.3.2 GET

This method shall support the URI query parameters specified in table 5.2.20.3.2-1.

Table 5.2.20.3.2-1: URI query parameters supported by the GET method on this resource

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Name | Data type | P | Cardinality | Description |
| ue-id | VarUeId | M | 1 | Represents the Subscription Identifier SUPI or GPSI (see 3GPP TS 23.501 [4] clause 5.9.2) pattern: See pattern of type VarUeId 3GPP TS 29.571 [3] |
| supported-features | SupportedFeatures | O | 0..1 | see 3GPP TS 29.500 [8] clause 6.6 |

This method shall support the request data structures specified in table 5.2.20.3.2-2 and the response data structures and response codes specified in table 5.2.20.3.2-3.

Table 5.2.20.3.2-2: Data structures supported by the GET Request Body on this resource

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

Table 5.2.20.3.2-3: Data structures supported by the GET Response Body on this resource

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Data type | P | Cardinality | Response  codes | Description |
| array(SubscriptionDataSubscriptions) | M | 0..N | 200 OK | Upon success, a response body containing the individual subscriptions shall be returned. |
| NOTE: In addition common data structures as listed in table 5.5-1 are supported. | | | | |

##### 5.2.20.3.3 DELETE

This method shall support the URI query parameters specified in table 5.2.20.3.3-1.

Table 5.2.20.3.3-1: URI query parameters supported by the DELETE method on this resource

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Name | Data type | P | Cardinality | Description |
| ue-id | VarUeId | M | 1 | Represents the Subscription Identifier SUPI or GPSI (see 3GPP TS 23.501 [4] clause 5.9.2) of the UE associated to this subscription.  Pattern: See pattern of type VarUeId 3GPP TS 29.571 [3] |
| nf-instance-id | NfInstanceId | C | 0..1 | If included, this IE shall contain the Instance ID of the original NF Service Consumer of the UDM that created the subscription, and the UDR shall delete all subscriptions associated to the ue-id that were created by this specific nf-instance-id.  If not included, the UDR shall delete all subscriptions matching the rest of query parameters.  (See NOTE) |
| delete-all-nfs | boolean | C | 0..1 | If included, this IE indicates that the UDR shall delete all subscriptions associated to the ue-id.  (See NOTE) |
| implicit-unsubscribe-indication | boolean | O | 0..1 | If included, this IE shall contain the content of the "implicitUnsubscribe" attribute sent during the creation of the subscription in UDM.  If it is set to true, it means that the UDR shall delete all those subscriptions from NF Service Consumers of UDM, whose implicitUnsubscribe value is set to true.  It not included, or set to false, the UDR shall delete all subscriptions matching the rest of query parameters. |
| NOTE: Either "nf-instance-id" or "delete-all-nfs" shal be included in the request. | | | | |

This method shall support the request data structures specified in table 5.2.20.3.3-2 and the response data structures and response codes specified in table 5.2.20.3.3-3.

Table 5.2.20.3.3-2: Data structures supported by the DELETE Request Body on this resource

|  |  |  |  |
| --- | --- | --- | --- |
| Data type | P | Cardinality | Description |
| n/a |  |  | The request body shall be empty. |

Table 5.2.20.3.3-3: Data structures supported by the DELETE Response Body on this resource

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Data type | P | Cardinality | Response  codes | Description |
| n/a |  |  | 204 No Content | Upon success, an empty response body shall be returned. |
| NOTE: In addition, common data structures as listed in table 5.5-1 are supported. | | | | |

### 5.2.21 Resource: IndividualSubscriptionDataSubscription

#### 5.2.21.1 Description

This resource is used to represent an individual subscriber data subscriptions to notifications.

#### 5.2.21.2 Resource Definition

Resource URI: {apiRoot}/nudr-dr/<apiVersion>/subscription-data/subs-to-notify/{subsId}

This resource shall support the resource URI variables defined in table 5.2.21.2-1.

Table 5.2.21.2-1: Resource URI variables for this resource

|  |  |
| --- | --- |
| Name | Definition |
| apiRoot | See 3GPP TS 29.504 [2] clause 6.1.1 |
| subsId | The subsId identifies an individual SubscriptionDataSubscriptions to notifications. The value is allocated by the UDR during creation of the SubscriptionDataSubscriptions resource. |

#### 5.2.21.3 Resource Standard Methods

##### 5.2.21.3.1 DELETE

This method shall support the URI query parameters specified in table 5.2.21.3.1-1.

Table 5.2.21.3.1-1: URI query parameters supported by the DELETE method on this resource

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

This method shall support the request data structures specified in table 5.2.21.3.1-2 and the response data structures and response codes specified in table 5.2.21.3.1-3.

Table 5.2.21.3.1-2: Data structures supported by the DELETE Request Body on this resource

|  |  |  |  |
| --- | --- | --- | --- |
| Data type | P | Cardinality | Description |
| n/a |  |  | The request body shall be empty. |

Table 5.2.21.3.1-3: Data structures supported by the DELETE Response Body on this resource

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Data type | P | Cardinality | Response  codes | Description |
| n/a |  |  | 204 No Content | Upon success, an empty response body shall be returned. |
| NOTE: In addition common data structures as listed in table 5.5-1 are supported. | | | | |

##### 5.2.21.3.2 PATCH

This method shall support the URI query parameters specified in table 5.2.21.3.2-1.

Table 5.2.21.3.2-1: URI query parameters supported by the PATCH method on this resource

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Name | Data type | P | Cardinality | Description |
| supported-features | SupportedFeatures | O | 0..1 | see 3GPP TS 29.500 [8] clause 6.6 |

This method shall support the request data structures specified in table 5.2.21.3.2-2 and the response data structures and response codes specified in table 5.2.21.3.2-3.

Table 5.2.21.3.2-2: Data structures supported by the PATCH Request Body on this resource

|  |  |  |  |
| --- | --- | --- | --- |
| Data type | P | Cardinality | Description |
| array(PatchItem) | M | 1..N | Contains the delta data to the Individual Subscription Data Subscription. |

Table 5.2.21.3.2-3: Data structures supported by the PATCH Response Body on this resource

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Data type | P | Cardinality | Response  codes | Description |
| n/a |  |  | 204 No Content | Upon successful modification, when all the modification instructions in the PATCH request have been implemented, there is no body in the response message. |
| SubscriptionDataSubscriptions | C | 0..1 | 200 OK | Upon partial success, if any of the requested modifications have not been accepted, but the server has set different values than those requested by the client, in any of the attributes of the resource, the modified individual SubscriptionDataSubscriptions is returned with the accepted/confirmed values, e.g. the confirmed expiry time.  Also, upon partial success, if the NF service consumer does not support the "PatchReport" feature, the UDR shall return a SubscriptionDataSubscriptions object in the response.  (NOTE 2) |
| PatchResult | C | 0..1 | 200 OK | Upon partial success, if the NF service consumer has included in the supported-feature query parameter the "PatchReport" feature number and if some of the modification instructions in the PATCH request have been discarded while the rest are accepted, the execution report is returned. (NOTE 2) |
| ProblemDetails | O | 0..1 | 403 Forbidden | If one or more attributes are not allowed to be modified according to e.g. policy or local configuration, then  the invalidParams attribute shall contain the JSON pointers of attributes which are not allowed to be modified, and  the cause attribute shall be set to "MODIFICATION\_NOT\_ALLOWED", see 3GPP TS 29.500 [8] table 5.2.7.2-1. |
| ProblemDetails | O | 0..1 | 404 Not Found | The "cause" attribute may be used to indicate one of the following application errors:  - SUBSCRIPTION\_NOT\_FOUND, see 3GPP TS 29.500 [4] table 5.2.7.2-1. |
| NOTE 1: In addition common data structures as listed in table 5.5-1 are supported.  NOTE 2: One of SubscriptionDataSubscriptions or PatchResult shall be returned. | | | | |

##### 5.2.21.3.3 GET

This method shall support the URI query parameters specified in table 5.2.21.3.3-1.

Table 5.2.21.3.3-1: URI query parameters supported by the GET method on this resource

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

This method shall support the request data structures specified in table 5.2.21.3.3-2 and the response data structures and response codes specified in table 5.2.21.3.3-3.

Table 5.2.21.3.3-2: Data structures supported by the GET Request Body on this resource

|  |  |  |  |
| --- | --- | --- | --- |
| Data type | P | Cardinality | Description |
| n/a |  |  | The request body shall be empty. |

Table 5.2.21.3.3-3: Data structures supported by the GET Response Body on this resource

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Data type | P | Cardinality | Response  codes | Description |
| SubscriptionDataSubscriptions | M | 1 | 200 OK | Upon success, a response body containing the individual subscriptions shall be returned. |
| NOTE: In addition common data structures as listed in table 5.5-1 are supported. | | | | |

### 5.2.22 Resource: TraceData

#### 5.2.22.1 Description

This resource represents the trace configuration data for a SUPI for use in a serving PLMN. It is queried by the AMF via the UDM after registering.

This resource is modelled with the Document resource archetype (see clause C.1 of 3GPP TS 29.501 [7]).

#### 5.2.22.2 Resource Definition

Resource URI: {apiRoot}/nudr-dr/<apiVersion>/subscription-data/{ueId}/{servingPlmnId}/provisioned-data/trace-data

This resource shall support the resource URI variables defined in table 5.2.22.2-1.

Table 5.2.22.2-1: Resource URI variables for this resource

|  |  |
| --- | --- |
| Name | Definition |
| apiRoot | See 3GPP TS 29.504 [2] clause 6.1.1 |
| ueId | Represents the Subscription Identifier SUPI or GPSI (see 3GPP TS 23.501 [4] clause 5.9.2)  pattern: See pattern of type VarUeId 3GPP TS 29.571 [3] |
| servingPlmnId | Represents the Serving PLMN ID (consisting of MCC, MNC) or SNPN (consisting of MCC, MNC and NID); see clauses 12.1 and 17.2 in 3GPP TS 23.003 [5].  pattern: "^[0-9]{5,6}(-[A-Fa-f0-9]{11})?$" |

#### 5.2.22.3 Resource Standard Methods

##### 5.2.22.3.1 GET

This method shall support the URI query parameters specified in table 5.2.22.3.1-1.

Table 5.2.22.3.1-1: URI query parameters supported by the GET method on this resource

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

This method shall support the request data structures specified in table 5.2.22.3.1-2 and the response data structures and response codes specified in table 5.2.22.3.1-3.

Table 5.2.22.3.1-2: Data structures supported by the GET Request Body on this resource

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

Table 5.2.22.3.1-3: Data structures supported by the GET Response Body on this resource

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Data type | P | Cardinality | Response  codes | Description |
| TraceDataOrSharedTraceDataId | M | 1 | 200 OK | Upon success, a response body containing the Trace Configuration Data or a shared trace data ID shall be returned. |
| NOTE: In addition common data structures as listed in table 5.5-1 are supported. | | | | |

### 5.2.23 Resource: IdentityData

#### 5.2.23.1 Description

This resource represents the identity data. It is queried by the UDM by GPSI or SUPI.

#### 5.2.23.2 Resource Definition

Resource URI: {apiRoot}/nudr-dr/<apiVersion>/subscription-data/{ueId}/identity-data

This resource shall support the resource URI variables defined in table 5.2.23.2-1.

Table 5.2.23.2-1: Resource URI variables for this resource

|  |  |
| --- | --- |
| Name | Definition |
| apiRoot | See clause 6.1.1 |
| ueId | Represents the Subscription Identifier SUPI or GPSI (see 3GPP TS 23.501 [4] clause 5.9.2)  pattern: See pattern of type VarUeId 3GPP TS 29.571 [3] |

#### 5.2.23.3 Resource Standard Methods

##### 5.2.23.3.1 GET

This method shall support the URI query parameters specified in table 5.2.23.3.1-1.

Table 5.2.23.3.1-1: URI query parameters supported by the GET method on this resource

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Name | Data type | P | Cardinality | Description |
| app-port-id | AppPortId | O | 0..1 | Application port identity, see 3GPP TS 23.501 [4] clause 4.4.7 |

This method shall support the request data structures specified in table 5.2.23.3.1-2 and the response data structures and response codes specified in table 5.2.23.3.1-3.

Table 5.2.23.3.1-2: Data structures supported by the GET Request Body on this resource

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

Table 5.2.23.3.1-3: Data structures supported by the GET Response Body on this resource

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Data type | P | Cardinality | Response  codes | Description |
| IdentityData | M | 1 | 200 OK | Upon success, a response body containing the identity data that corresponds to the provided ueId |
| ProblemDetails | O | 0..1 | 404 Not Found | If the ueId does not exist, a response code of 404 Not Found shall be returned. The "cause" attribute may be used to indicate one of the following application errors:  - USER\_NOT\_FOUND  - DATA\_NOT\_FOUND |
| NOTE: In addition, common data structures as listed in table 5.5-1 are supported. | | | | |

### 5.2.24 Resource: AuthenticationStatus

#### 5.2.24.1 Description

This resource is modelled with the Document resource archetype (see clause C.1 of 3GPP TS 29.501 [7]).

#### 5.2.24.2 Resource Definition

Resource URI: {apiRoot}/nudr-dr/<apiVersion>/subscription-data/{ueId}/authentication-data/authentication-status

This resource shall support the resource URI variables defined in table 5.2.24.2-1.

Table 5.2.24.2-1: Resource URI variables for this resource

|  |  |
| --- | --- |
| Name | Definition |
| apiRoot | See 3GPP TS 29.504 [2] clause 6.1.1 |
| ueId | Represents the Subscription Identifier SUPI (see 3GPP TS 23.501 [4] clause 5.9.2)   pattern: See pattern of type Supi in 3GPP TS 29.571 [3] |

#### 5.2.24.3 Resource Standard Methods

##### 5.2.24.3.1 PUT

This method shall support the URI query parameters specified in table 5.2.24.3.1-1.

Table 5.2.24.3.1-1: URI query parameters supported by the PUT method on this resource

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

This method shall support the request data structures specified in table 5.2.24.3.1-2 and the response data structures and response codes specified in table 5.2.24.3.1-3.

Table 5.2.24.3.1-2: Data structures supported by the PUT Request Body on this resource

|  |  |  |  |
| --- | --- | --- | --- |
| Data type | P | Cardinality | Description |
| AuthEvent | M | 1 | To store the authentication status of the UE. |

Table 5.2.24.3.1-3: Data structures supported by the PUT Response Body on this resource

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Data type | P | Cardinality | Response  codes | Description |
| n/a |  |  | 204 No Content | Upon success, an empty response body shall be returned |
| NOTE: In addition common data structures as listed in table 5.5-1 are supported. | | | | |

##### 5.2.24.3.2 GET

This method shall support the URI query parameters specified in table 5.2.24.3.2-1.

Table 5.2.24.3.2-1: URI query parameters supported by the GET method on this resource

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Name | Data type | P | Cardinality | Description |
| fields | array(string) | C | 1..N | When the NF consumer only retrieves a subset of the resource, the "fields" query parameter shall be included. The "fields" query parameter contains the pointers of the attribute(s) to be retrieved. |
| supported-features | SupportedFeatures | O | 0..1 | see 3GPP TS 29.500 [8] clause 6.6 |

This method shall support the request data structures specified in table 5.2.24.3.2-2 and the response data structures and response codes specified in table 5.2.24.3.2-3.

Table 5.2.24.3.2-2: Data structures supported by the GET Request Body on this resource

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

Table 5.2.24.3.2-3: Data structures supported by the GET Response Body on this resource

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Data type | P | Cardinality | Response  codes | Description |
| AuthEvent | M | 1 | 200 OK | Upon success, a response body containing the AuthEvent shall be returned. |
| NOTE: In addition common data structures as listed in table 5.5-1 are supported. | | | | |

##### 5.2.24.3.3 DELETE

This method shall support the URI query parameters specified in table 5.2.24.3.3-1.

Table 5.2.24.3.3-1: URI query parameters supported by the DELETE method on this resource

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

This method shall support the request data structures specified in table 5.2.24.3.3-2 and the response data structures and response codes specified in table 5.2.24.3.3-3.

Table 5.2.24.3.3-2: Data structures supported by the DELETE Request Body on this resource

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

Table 5.2.24.3.3-3: Data structures supported by the DELETE Response Body on this resource

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Data type | P | Cardinality | Response  codes | Description |
| n/a |  |  | 204 No Content | Upon success, an empty response body shall be returned. |
| NOTE: In addition common data structures as listed in table 5.5-1 are supported. | | | | |

### 5.2.24A Resource: IndividualAuthenticationStatus

#### 5.2.24A.1 Description

This resource is used to represent individual Authentication Status to be stored in the UDR.

This resource is modelled with the Document resource archetype (see clause C.1 of 3GPP TS 29.501 [7]).

#### 5.2.24A.2 Resource Definition

Resource URI: {apiRoot}/nudr-dr/<apiVersion>/subscription-data/{ueId}/authentication-data/authentication-status/{servingNetworkName}

This resource shall support the resource URI variables defined in table 5.2.24A.2-1.

Table 5.2.24A.2-1: Resource URI variables for this resource

|  |  |
| --- | --- |
| Name | Definition |
| apiRoot | See clause 6.4.1 |
| ueId | Represents the Subscription Identifier SUPI (see 3GPP TS 23.501 [4] clause 5.9.2)  pattern: See pattern of type Supi in 3GPP TS 29.571 [3] |
| servingNetworkName | Represents the Serving Network Name.  pattern: See pattern of type ServingNetworkName in 3GPP TS 29.503 [6] |

#### 5.2.24A.3 Resource Standard Methods

##### 5.2.24A.3.1 PUT

This method shall support the URI query parameters specified in table 5.2.24A.3.1-1.

Table 5.2.24A.3.1-1: URI query parameters supported by the PUT method on this resource

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

This method shall support the request data structures specified in table 5.2.24A.3.1-2 and the response data structures and response codes specified in table 5.2.24A.3.1-3.

Table 5.2.24A.3.1-2: Data structures supported by the PUT Request Body on this resource

|  |  |  |  |
| --- | --- | --- | --- |
| Data type | P | Cardinality | Description |
| AuthEvent | M | 1 | To store the authentication status of the UE. |

Table 5.2.24A.3.1-3: Data structures supported by the PUT Response Body on this resource

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Data type | P | Cardinality | Response  codes | Description |
| n/a |  |  | 204 No Content | Upon success, an empty response body shall be returned |
| NOTE: In addition common data structures as listed in table 5.5-1 are supported. | | | | |

##### 5.2.24A.3.2 GET

This method shall support the URI query parameters specified in table 5.2.24A.3.2-1.

Table 5.2.24A.3.2-1: URI query parameters supported by the GET method on this resource

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Name | Data type | P | Cardinality | Description |
| fields | array(string) | C | 1..N | When the NF consumer only retrieves a subset of the resource, the "fields" query parameter shall be included. The "fields" query parameter contains the pointers of the attribute(s) to be retrieved. |
| supported-features | SupportedFeatures | O | 0..1 | see 3GPP TS 29.500 [8] clause 6.6 |

This method shall support the request data structures specified in table 5.2.24A.3.2-2 and the response data structures and response codes specified in table 5.2.24A.3.2-3.

Table 5.2.24A.3.2-2: Data structures supported by the GET Request Body on this resource

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

Table 5.2.24A.3.2-3: Data structures supported by the GET Response Body on this resource

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Data type | P | Cardinality | Response  codes | Description |
| AuthEvent | M | 1 | 200 OK | Upon success, a response body containing the AuthEvent shall be returned. |
| NOTE: In addition common data structures as listed in table 5.5-1 are supported. | | | | |

##### 5.2.24A.3.3 DELETE

This method shall support the URI query parameters specified in table 5.2.24A.3.3-1.

Table 5.2.24A.3.3-1: URI query parameters supported by the DELETE method on this resource

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

This method shall support the request data structures specified in table 5.2.24A.3.3-2 and the response data structures and response codes specified in table 5.2.24A.3.3-3.

Table 5.2.24A.3.3-2: Data structures supported by the DELETE Request Body on this resource

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

Table 5.2.24A.3.3-3: Data structures supported by the DELETE Response Body on this resource

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Data type | P | Cardinality | Response  codes | Description |
| n/a |  |  | 204 No Content | Upon success, an empty response body shall be returned. |
| NOTE: In addition common data structures as listed in table 5.5-1 are supported. | | | | |

### 5.2.25 Resource: AuthenticationSoR

#### 5.2.25.1 Description

This resource is modelled with the Document resource archetype (see clause C.1 of 3GPP TS 29.501 [7]).

#### 5.2.25.2 Resource Definition

Resource URI: {apiRoot}/nudr-dr/<apiVersion>/subscription-data/{ueId}/ue-update-confirmation-data/sor-data

This resource shall support the resource URI variables defined in table 5.2.25.2-1.

Table 5.2.25.2-1: Resource URI variables for this resource

|  |  |
| --- | --- |
| Name | Definition |
| apiRoot | See 3GPP TS 29.504 [2] clause 6.1.1 |
| ueId | Represents the Subscription Identifier SUPI (see 3GPP TS 23.501 [4] clause 5.9.2)   pattern: See pattern of type Supi in 3GPP TS 29.571 [3] |

#### 5.2.25.3 Resource Standard Methods

##### 5.2.25.3.1 PUT

This method shall support the URI query parameters specified in table 5.2.25.3.1-1.

Table 5.2.25.3.1-1: URI query parameters supported by the PUT method on this resource

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

This method shall support the request data structures specified in table 5.2.25.3.1-2 and the response data structures and response codes specified in table 5.2.25.3.1-3.

Table 5.2.25.3.1-2: Data structures supported by the PUT Request Body on this resource

|  |  |  |  |
| --- | --- | --- | --- |
| Data type | P | Cardinality | Description |
| SorData | M | 1 | The SoR acknowledgement information to be stored temporarily. |

Table 5.2.25.3.1-3: Data structures supported by the PUT Response Body on this resource

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Data type | P | Cardinality | Response  codes | Description |
| n/a |  |  | 204 No Content | Upon success, an empty response body shall be returned |
| NOTE: In addition common data structures as listed in table 5.5-1 are supported. | | | | |

##### 5.2.25.3.2 GET

This method shall support the URI query parameters specified in table 5.2.25.3.2-1.

Table 5.2.25.3.2-1: URI query parameters supported by the GET method on this resource

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Name | Data type | P | Cardinality | Description |
| supported-features | SupportedFeatures | O | 0..1 | see 3GPP TS 29.500 [8] clause 6.6 |

This method shall support the request data structures specified in table 5.2.25.3.2-2 and the response data structures and response codes specified in table 5.2.25.3.2-3.

Table 5.2.25.3.2-2: Data structures supported by the GET Request Body on this resource

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

Table 5.2.25.3.2-3: Data structures supported by the GET Response Body on this resource

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Data type | P | Cardinality | Response  codes | Description |
| SorData | M | 1 | 200 OK | Upon success, a response body containing the SorData shall be returned. |
| NOTE: In addition common data structures as listed in table 5.5-1 are supported. | | | | |

##### 5.2.25.3.3 PATCH

This method is used to modify the "ME support of SOR-CMCI", "ME support of SOR-SNPN-SI" and "ME support of SOR-SNPN-SI-LS" stored in the UDR.

This method shall support the URI query parameters specified in table 5.2.25.3.3-1.

Table 5.2.25.3.3-1.: URI query parameters supported by the PATCH method on this resource

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Name | Data type | P | Cardinality | Description |
| supported-features | SupportedFeatures | O | 0..1 | see 3GPP TS 29.500 [8] clause 6.6 |

This method shall support the request data structures specified in table 5.2.25.3.3-2 and the response data structures, and response codes specified in table 5.2.25.3.3-3.

Table 5.2.25.3.3-2: Data structures supported by the PATCH Request Body on this resource

|  |  |  |  |
| --- | --- | --- | --- |
| Data type | P | Cardinality | Description |
| array(PatchItem) | M | 1..N | Contains the delta data to the contents of SorData |

Table 5.2.25.3.3-3: Data structures supported by the PATCH Response Body on this resource

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Data type | P | Cardinality | Response  codes | Description |
| n/a |  |  | 204 No Content | Upon successful modification there is no body in the response message. (NOTE 2) |
| PatchResult | M | 1 | 200 OK | Upon success, the execution report is returned. (NOTE 2) |
| ProblemDetails | O | 0..1 | 403 Forbidden | If one or more attributes are not allowed to be modified according to e.g. policy or local configuration, then the invalidParams attribute shall contain the JSON pointers of attributes which are not allowed to be modified, and the cause attribute shall be set to "MODIFICATION\_NOT\_ALLOWED", see 3GPP TS 29.500 [8] table 5.2.7.2-1. |
| NOTE 1: In addition common data structures as listed in table 5.5-1 are supported.  NOTE 2: If all the modification instructions in the PATCH request have been implemented, the UDR shall respond with 204 No Content response; if some of the modification instructions in the PATCH request have been discarded, and the NF service consumer has included in the supported-feature query parameter the "PatchReport" feature number, the UDR shall respond with PatchResult. | | | | |

### 5.2.25A Resource: AuthenticationUPU

#### 5.2.25A.1 Description

This resource is modelled with the Document resource archetype (see clause C.1 of 3GPP TS 29.501 [7]).

#### 5.2.25A.2 Resource Definition

Resource URI: {apiRoot}/nudr-dr/<apiVersion>/subscription-data/{ueId}/ue-update-confirmation-data/upu-data

This resource shall support the resource URI variables defined in table 5.2.25A.2-1.

Table 5.2.25A.2-1: Resource URI variables for this resource

|  |  |
| --- | --- |
| Name | Definition |
| apiRoot | See 3GPP TS 29.504 [2] clause 6.1.1 |
| ueId | Represents the Subscription Identifier SUPI (see 3GPP TS 23.501 [4] clause 5.9.2)   pattern: See pattern of type Supi in 3GPP TS 29.571 [3] |

#### 5.2.25A.3 Resource Standard Methods

##### 5.2.25A.3.1 PUT

This method shall support the URI query parameters specified in table 5.2.25A.3.1-1.

Table 5.2.25A.3.1-1: URI query parameters supported by the PUT method on this resource

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

This method shall support the request data structures specified in table 5.2.25A.3.1-2 and the response data structures and response codes specified in table 5.2.25A.3.1-3.

Table 5.2.25A.3.1-2: Data structures supported by the PUT Request Body on this resource

|  |  |  |  |
| --- | --- | --- | --- |
| Data type | P | Cardinality | Description |
| UpuData | M | 1 | The UPU acknowledgement information to be stored temporarily. |

Table 5.2.25A.3.1-3: Data structures supported by the PUT Response Body on this resource

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Data type | P | Cardinality | Response  codes | Description |
| n/a |  |  | 204 No Content | Upon success, an empty response body shall be returned |
| NOTE: In addition common data structures as listed in table 5.5-1 are supported. | | | | |

##### 5.2.25A.3.2 GET

This method shall support the URI query parameters specified in table 5.2.25A.3.2-1.

Table 5.2.25A.3.2-1: URI query parameters supported by the GET method on this resource

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Name | Data type | P | Cardinality | Description |
| supported-features | SupportedFeatures | O | 0..1 | see 3GPP TS 29.500 [8] clause 6.6 |

This method shall support the request data structures specified in table 5.2.25A.3.2-2 and the response data structures and response codes specified in table 5.2.25A.3.2-3.

Table 5.2.25A.3.2-2: Data structures supported by the GET Request Body on this resource

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

Table 5.2.25A.3.2-3: Data structures supported by the GET Response Body on this resource

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Data type | P | Cardinality | Response  codes | Description |
| UpuData | M | 1 | 200 OK | Upon success, a response body containing the UpuData shall be returned. |
| NOTE: In addition common data structures as listed in table 5.5-1 are supported. | | | | |

### 5.2.25B Resource: SubscribedSNSSAIs

#### 5.2.25B.1 Description

This resource is modelled with the Document resource archetype (see clause C.1 of 3GPP TS 29.501 [7]).

#### 5.2.25B.2 Resource Definition

Resource URI: {apiRoot}/nudr-dr/<apiVersion>/subscription-data/{ueId}/ue-update-confirmation-data/subscribed-snssais

This resource shall support the resource URI variables defined in table 5.2.25B.2-1.

Table 5.2.25B.2-1: Resource URI variables for this resource

|  |  |
| --- | --- |
| Name | Definition |
| apiRoot | See 3GPP TS 29.504 [2] clause 6.1.1 |
| ueId | Represents the Subscription Identifier SUPI (see 3GPP TS 23.501 [4] clause 5.9.2)   pattern: See pattern of type Supi in 3GPP TS 29.571 [3] |

#### 5.2.25B.3 Resource Standard Methods

##### 5.2.25B.3.1 PUT

This method shall support the URI query parameters specified in table 5.2.25B.3.1-1.

Table 5.2.25B.3.1-1: URI query parameters supported by the PUT method on this resource

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

This method shall support the request data structures specified in table 5.2.25B.3.1-2 and the response data structures and response codes specified in table 5.2.25B.3.1-3.

Table 5.2.25B.3.1-2: Data structures supported by the PUT Request Body on this resource

|  |  |  |  |
| --- | --- | --- | --- |
| Data type | P | Cardinality | Description |
| NssaiAckData | M | 1 | Contains the provisioning time stamp of the acknowledged subscribed S-NSSAIs |

Table 5.2.25B.3.1-3: Data structures supported by the PUT Response Body on this resource

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Data type | P | Cardinality | Response  codes | Description |
| n/a |  |  | 204 No Content | Upon success, an empty response body shall be returned |
| NOTE: In addition common data structures as listed in table 5.5-1 are supported. | | | | |

##### 5.2.25B.3.2 GET

This method shall support the URI query parameters specified in table 5.2.25B.3.2-1.

Table 5.2.25B.3.2-1: URI query parameters supported by the GET method on this resource

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Name | Data type | P | Cardinality | Description |
| supported-features | SupportedFeatures | O | 0..1 | see 3GPP TS 29.500 [8] clause 6.6 |

This method shall support the request data structures specified in table 5.2.25B.3.2-2 and the response data structures and response codes specified in table 5.2.25B.3.2-3.

Table 5.2.25B.3.2-2: Data structures supported by the GET Request Body on this resource

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

Table 5.2.25B.3.2-3: Data structures supported by the GET Response Body on this resource

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Data type | P | Cardinality | Response  codes | Description |
| NssaiAckData | M | 1 | 200 OK | Upon success, a response body containing the NssaiAckData shall be returned. |
| NOTE: In addition common data structures as listed in table 5.5-1 are supported. | | | | |

### 5.2.25C Resource: SubscribedCAG

#### 5.2.25C.1 Description

This resource is modelled with the Document resource archetype (see clause C.1 of 3GPP TS 29.501 [7]).

#### 5.2.25C.2 Resource Definition

Resource URI: {apiRoot}/nudr-dr/<apiVersion>/subscription-data/{ueId}/ue-update-confirmation-data/subscribed-cag

This resource shall support the resource URI variables defined in table 5.2.25C.2-1.

Table 5.2.25C.2-1: Resource URI variables for this resource

|  |  |
| --- | --- |
| Name | Definition |
| apiRoot | See 3GPP TS 29.504 [2] clause 6.1.1 |
| ueId | Represents the Subscription Identifier SUPI (see 3GPP TS 23.501 [4] clause 5.9.2)  pattern: See pattern of type Supi in 3GPP TS 29.571 [3] |

#### 5.2.25C.3 Resource Standard Methods

##### 5.2.25C.3.1 PUT

This method shall support the URI query parameters specified in table 5.2.25C.3.1-1.

Table 5.2.25C.3.1-1: URI query parameters supported by the PUT method on this resource

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

This method shall support the request data structures specified in table 5.2.25C.3.1-2 and the response data structures and response codes specified in table 5.2.25C.3.1-3.

Table 5.2.25C.3.1-2: Data structures supported by the PUT Request Body on this resource

|  |  |  |  |
| --- | --- | --- | --- |
| Data type | P | Cardinality | Description |
| CagAckData | M | 1 | Contains the provisioning time stamp of the acknowledged CAG |

Table 5.2.25C.3.1-3: Data structures supported by the PUT Response Body on this resource

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Data type | P | Cardinality | Response  codes | Description |
| n/a |  |  | 204 No Content | Upon success, an empty response body shall be returned |
| NOTE: In addition common data structures as listed in table 5.5-1 are supported. | | | | |

##### 5.2.25C.3.2 GET

This method shall support the URI query parameters specified in table 5.2.25C.3.2-1.

Table 5.2.25C.3.2-1: URI query parameters supported by the GET method on this resource

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Name | Data type | P | Cardinality | Description |
| supported-features | SupportedFeatures | O | 0..1 | see 3GPP TS 29.500 [8] clause 6.6 |

This method shall support the request data structures specified in table 5.2.25C.3.2-2 and the response data structures and response codes specified in table 5.2.25C.3.2-3.

Table 5.2.25C.3.2-2: Data structures supported by the GET Request Body on this resource

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

Table 5.2.25C.3.2-3: Data structures supported by the GET Response Body on this resource

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Data type | P | Cardinality | Response  codes | Description |
| CagAckData | M | 1 | 200 OK | Upon success, a response body containing the CagAckData shall be returned. |
| NOTE: In addition common data structures as listed in table 5.5-1 are supported. | | | | |

### 5.2.26 Resource: ProvisionedData

#### 5.2.26.1 Description

This resource represents the subscribed ProvisionedData for a UE ID for use in a serving PLMN.

This resource is modelled with the Document resource archetype (see clause C.1 of 3GPP TS 29.501 [7]).

#### 5.2.26.2 Resource Definition

Resource URI: {apiRoot}/nudr-dr/<apiVersion>/subscription-data/{ueId}/{servingPlmnId}/provisioned-data

This resource shall support the resource URI variables defined in table 5.2.26.2-1.

Table 5.2.26.2-1: Resource URI variables for this resource

|  |  |
| --- | --- |
| Name | Definition |
| apiRoot | See 3GPP TS 29.504 [2] clause 6.1.1 |
| ueId | Represents the Subscription Identifier SUPI or GPSI (see 3GPP TS 23.501 [4] clause 5.9.2)  pattern: See pattern of type VarUeId in 3GPP TS 29.571 [3] |
| servingPlmnId | Represents the Serving PLMN ID (consisting of MCC, MNC) or SNPN (consisting of MCC, MNC and NID); see clauses 12.1 and 17.2 in 3GPP TS 23.003 [5].  pattern: "^[0-9]{5,6}(-[A-Fa-f0-9]{11})?$" |

#### 5.2.26.3 Resource Standard Methods

##### 5.2.26.3.1 GET

This method shall support the URI query parameters specified in table 5.2.26.3.1-1.

Table 5.2.26.3.1-1: URI query parameters supported by the GET method on this resource

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Name | Data type | P | Cardinality | Description |
| dataset-names | array(ProvisionedDataSetName) | O | 1..N | If included, this IE shall contain the names of data sets to the retrieved. If not included, all provisioned data sets shall be returned. |
| adjacent-plmns | array(PlmnId) | O | 1..N | PLMN identities of PLMNs adjacent to the PLMN serving the UE. If present the GET response may contain adjacentPlmnRestrictions for the indicated PLMNs.  May be present if dataset-names contains Access And Mobility Subscription Data |
| single-nssai | Snssai | O | 0..1 | When present without Slice Differentiator (sd), all slices identified by the given Slice/Service Type (sst) and any sd value (if any) shall be considered matching the query parameter.  May be present if dataset-names contains Session Management Subscription Data |
| dnn | Dnn | O | 0..1 | May be present if dataset-names contains Session Management Subscription Data |
| ext-group-ids | array(ExtGroupId) | O | 1..N | If included, this IE Contain a list of external VN group identifiers for which the profiles are retrieved.  May be present if dataset-names contains Parameter Provisioning Profile Data |
| uc-purpose | UcPurpose | O | 0..1 | Represents the user consent purpose.  pattern: See pattern of type UcPurpose in 3GPP TS 29.503 [6]  May be present if dataset-names contains User Consent Data |

NOTE: To retrieve data sets that are not specific to serving PLMNs (e.g., LCS\_PRIVACY, LCS\_MO, V2X, A2X, PROSE, ODB, EE\_PROF, PP\_PROF and NIDD\_AUTH), an NF service consumer should use UE Subscription Data Retrieve operation (see clause 5.2.47).

This method shall support the request data structures specified in table 5.2.26.3.1-2 and the response data structures and response codes specified in table 5.2.26.3.1-3.

Table 5.2.26.3.1-2: Data structures supported by the GET Request Body on this resource

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

Table 5.2.26.3.1-3: Data structures supported by the GET Response Body on this resource

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Data type | P | Cardinality | Response  codes | Description |
| ProvisionedDataSets | M | 1 | 200 OK | Upon success, a response body containing the requested data sets shall be returned. |
| NOTE: In addition common data structures as listed in table 5.5-1 are supported. | | | | |

Table 5.2.26.3.1-4: Headers supported by the 200 response code on this resource

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Name | Data type | P | Cardinality | Description |
| 3gpp-Sbi-Etags | string | O | 0..1 | See 3GPP TS 29.504 [2] |

### 5.2.27 Resource: OperatorDeterminedBarringData

#### 5.2.27.1 Description

This resource represents the subscribed OperatorDeterminedBarringData for a SUPI. It is queried by the UDM during registration.

This resource is modelled with the Document resource archetype (see clause C.1 of 3GPP TS 29.501 [7]).

#### 5.2.27.2 Resource Definition

Resource URI: {apiRoot}/nudr-dr/<apiVersion>/subscription-data/{ueId}/operator-determined-barring-data

This resource shall support the resource URI variables defined in table 5.2.27.2-1.

Table 5.2.27.2-1: Resource URI variables for this resource

|  |  |
| --- | --- |
| Name | Definition |
| apiRoot | See 3GPP TS 29.504 [2] clause 6.1.1 |
| ueId | Represents the Subscription Identifier SUPI or GPSI (see 3GPP TS 23.501 [4] clause 5.9.2)  pattern: See pattern of type VarUeId in 3GPP TS 29.571 [3] |

#### 5.2.27.3 Resource Standard Methods

##### 5.2.27.3.1 GET

This method shall support the URI query parameters specified in table 5.2.27.3.1-1.

Table 5.2.27.3.1-1: URI query parameters supported by the GET method on this resource

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

This method shall support the request data structures specified in table 5.2.27.3.1-2 and the response data structures and response codes specified in table 5.2.27.3.1-3.

Table 5.2.27.3.1-2: Data structures supported by the GET Request Body on this resource

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

Table 5.2.27.3.1-3: Data structures supported by the GET Response Body on this resource

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Data type | P | Cardinality | Response  codes | Description |
| OdbData | M | 1 | 200 OK | Upon success, a response body containing the Operator Determined Barring Data shall be returned. |
| NOTE: In addition, common data structures as listed in table 5.5-1 are supported. | | | | |

### 5.2.28 Resource: EeProfileData

#### 5.2.28.1 Description

This resource represents a list of the Event Exposure Profile Data. It is queried by the UDM by either GPSI or SUPI.

#### 5.2.28.2 Resource Definition

Resource URI: {apiRoot}/nudr-dr/<apiVersion>/subscription-data/{ueId}/ee-profile-data

This resource shall support the resource URI variables defined in table 5.2.28.2-1.

Table 5.2.28.2-1: Resource URI variables for this resource

|  |  |
| --- | --- |
| Name | Definition |
| apiRoot | See clause 6.1.1 |
| ueId | Represents the Subscription Identifier SUPI or GPSI (see 3GPP TS 23.501 [4] clause 5.9.2)  pattern: See pattern of type VarUeId in 3GPP TS 29.571 [3] |

#### 5.2.28.3 Resource Standard Methods

##### 5.2.28.3.1 GET

This method shall support the URI query parameters specified in table 5.2.28.3.1-1.

Table 5.2.28.3.1-1: URI query parameters supported by the GET method on this resource

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Name | Data type | P | Cardinality | Description |
| fields | array(string) | C | 1..N | When the NF consumer only retrieves a subset of the resource, the " fields " query parameter shall be included. The " fields " query parameter contains the pointers of the attribute(s) to be retrieved. |
| supported-features | SupportedFeatures | O | 0..1 | see 3GPP TS 29.500 [8] clause 6.6 |

This method shall support the request data structures specified in table 5.2.28.3.1-2 and the response data structures and response codes specified in table 5.2.28.3.1-3.

Table 5.2.28.3.1-2: Data structures supported by the GET Request Body on this resource

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

Table 5.2.28.3.1-3: Data structures supported by the GET Response Body on this resource

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Data type | P | Cardinality | Response  codes | Description |
| EeProfileData | M | 1 | 200 OK | Upon success, a response body containing the Event Exposure Profile that corresponds to the provided ueId |
| NOTE: In addition, common data structures as listed in table 5.5-1 are supported. | | | | |

### 5.2.29 Resource: EeGroupSubscriptions

#### 5.2.29.1 Description

This resource represents the collection of EE Subscriptions for a group of UEs or any UE (i.e. all UEs).

This resource is modelled with the Collection resource archetype (see clause C.1 of 3GPP TS 29.501 [7]).

#### 5.2.29.2 Resource Definition

Resource URI: {apiRoot}/nudr-dr/<apiVersion>/subscription-data/group-data/{ueGroupId}/ee-subscriptions

This resource shall support the resource URI variables defined in table 5.2.29.2-1.

Table 5.2.29.2-1: Resource URI variables for this resource

|  |  |
| --- | --- |
| Name | Definition |
| apiRoot | See 3GPP TS 29.504 [2] clause 6.1.1 |
| ueGroupId | Represents the identifier of the Group of UEs. For this resource, either External Group Identifier or any UE shall be present.  pattern: '^(extgroupid-[^@]+@[^@]+|anyUE)$' |

#### 5.2.29.3 Resource Standard Methods

##### 5.2.29.3.1 GET

This method shall support the URI query parameters specified in table 5.2.29.3.1-1.

Table 5.2.29.3.1-1: URI query parameters supported by the GET method on this resource

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Name | Data type | P | Cardinality | Description |
| supported-features | SupportedFeatures | O | 0..1 | see 3GPP TS 29.500 [8] clause 6.6 |

This method shall support the request data structures specified in table 5.2.29.3.1-2 and the response data structures and response codes specified in table 5.2.29.3.1-3.

Table 5.2.29.3.1-2: Data structures supported by the GET Request Body on this resource

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

Table 5.2.29.3.1-3: Data structures supported by the GET Response Body on this resource

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Data type | P | Cardinality | Response  codes | Description |
| array(EeSubscription) | M | 1..N | 200 OK | Upon success, a response body containing the individual EE subscriptions for the groups of UEs shall be returned. |
| NOTE: In addition, common data structures as listed in table 5.5-1 are supported. | | | | |

##### 5.2.29.3.2 POST

This method shall support the URI query parameters specified in table 5.2.29.3.2-1.

Table 5.2.29.3.2-1: URI query parameters supported by the POST method on this resource

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

This method shall support the request data structures specified in table 5.2.19.3.2-2 and the response data structures and response codes specified in table 5.2.29.3.2-3.

Table 5.2.29.3.2-2: Data structures supported by the POST Request Body on this resource

|  |  |  |  |
| --- | --- | --- | --- |
| Data type | P | Cardinality | Description |
| EeSubscription | M | 1 | Identifies the data subscription to be stored in the UDR. |

Table 5.2.29.3.2-3: Data structures supported by the POST Response Body on this resource

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Data type | P | Cardinality | Response  codes | Description |
| EeSubscription | M | 1 | 201 Created | Upon success, a response body containing a representation of the Individual subscription resource shall be returned.  The HTTP response shall include a "Location" HTTP header that contains the resource URI of the created resource. |
| NOTE: In addition, common data structures as listed in table 5.5-1 are supported. | | | | |

### 5.2.30 Resource: SharedData

#### 5.2.30.1 Description

This resource represents the collection of data that can be shared by multiple UEs.

#### 5.2.30.2 Resource Definition

Resource URI: {apiRoot}/nudr-dr/<apiVersion>/subscription-data/shared-data

This resource shall support the resource URI variables defined in table 5.2.30.2-1.

Table 5.2.30.2-1: Resource URI variables for this resource

|  |  |
| --- | --- |
| Name | Definition |
| apiRoot | See 3GPP TS 29.504 [2] clause 6.1.1 |

#### 5.2.30.3 Resource Standard Methods

##### 5.2.30.3.1 GET

This method shall support the URI query parameters specified in table 5.2.30.3.1-1.

Table 5.2.30.3.1-1: URI query parameters supported by the GET method on this resource

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Name | Data type | P | Cardinality | Description |
| shared-data-ids | array(SharedDataId) | M | 1..N |  |
| supported-features | SupportedFeatures | O | 0..1 | see 3GPP TS 29.500 [8] clause 6.6 |

This method shall support the request data structures specified in table 5.2.30.3.1-2 and the response data structures and response codes specified in table 5.2.30.3.1-3.

Table 5.2.30.3.1-2: Data structures supported by the GET Request Body on this resource

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

Table 5.2.30.3.1-3: Data structures supported by the GET Response Body on this resource

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Data type | P | Cardinality | Response  codes | Description |
| array(SharedData) | M | 0..N | 200 OK | Upon success, a response body containing a list of SharedData shall be returned. |
| NOTE: In addition common data structures as listed in table 5.5-1 are supported. | | | | |

### 5.2.30A Resource: IndividualSharedData

#### 5.2.30A.1 Description

This resource represents the individual shared data.

#### 5.2.30A.2 Resource Definition

Resource URI: {apiRoot}/nudr-dr/<apiVersion>/subscription-data/shared-data/{sharedDataId}

This resource shall support the resource URI variables defined in table 5.2.30A.2-1.

Table 5.2.30A.2-1: Resource URI variables for this resource

|  |  |
| --- | --- |
| Name | Definition |
| apiRoot | See 3GPP TS 29.504 [2] clause 6.1.1 |
| sharedDataId | Contains the individual Shared Data Identifier. |

#### 5.2.30A.3 Resource Standard Methods

##### 5.2.30A.3.1 GET

This method shall support the URI query parameters specified in table 5.2.30A.3.1-1.

Table 5.2.30A.3.1-1: URI query parameters supported by the GET method on this resource

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

This method shall support the request data structures specified in table 5.2.30A.3.1-2 and the response data structures and response codes specified in table 5.2.30A.3.1-3.

Table 5.2.30A.3.1-2: Data structures supported by the GET Request Body on this resource

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

Table 5.2.30A.3.1-3: Data structures supported by the GET Response Body on this resource

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Data type | | P | Cardinality | Response  codes | Description |
| SharedData | | M | 1 | 200 OK | Upon success, a response body containing SharedData shall be returned. |
| ProblemDetails | O | | 0..1 | 404 Not Found | The "cause" attribute may be used to indicate one of the following application errors:  - DATA\_NOT\_FOUND |
| NOTE: In addition common data structures as listed in table 5.5-1 are supported. | | | | | |

### 5.2.31 Resource: AmfSubscriptionInfo

#### 5.2.31.1 Description

This resource represents information relevant to an individual EE Subscription for a UE. Depending on the Event Types of the EeSubscription, the UDM may need to consume the Namf\_EventExposure\_Subscribe service operation to subscribe at the AMF (see 3GPP TS 29.518 [13]). After successful subscription at the AMF, the UDM needs to store within the UDR related information, e.g. the SubscriptionId allocated by the AMF.

This resource is modelled with the Document resource archetype (see clause C.1 of 3GPP TS 29.501 [7]).

#### 5.2.31.2 Resource Definition

Resource URI: {apiRoot}/nudr-dr/<apiVersion>/subscription-data/{ueId}/context-data/ee-subscriptions/{subsId}/amf-subscriptions

This resource shall support the resource URI variables defined in table 5.2.31.2-1.

Table 5.2.31.2-1: Resour ce URI variables for this resource

|  |  |
| --- | --- |
| Name | Definition |
| apiRoot | See 3GPP TS 29.504 [2] clause 6.1.1 |
| ueId | Represents the Subscription Identifier SUPI or GPSI (see 3GPP TS 23.501 [4] clause 5.9.2)  pattern: See pattern of type VarUeId in 3GPP TS 29.571 [3] |
| subsId | Identifier of the subscription (allocated by the UDM) |

#### 5.2.31.3 Resource Standard Methods

##### 5.2.31.3.1 PUT

This method shall support the URI query parameters specified in table 5.2.31.3.1-1.

Table 5.2.31.3.1-1: URI query parameters supported by the PUT method on this resource

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

This method shall support the request data structures specified in table 5.2.31.3.1-2 and the response data structures and response codes specified in table 5.2.31.3.1-3.

Table 5.2.31.3.1-2: Data structures supported by the PUT Request Body on this resource

|  |  |  |  |
| --- | --- | --- | --- |
| Data type | P | Cardinality | Description |
| array(AmfSubscriptionInfo) | M | 1..N | AMF subscription info for one or two AMFs |

Table 5.2.31.3.1-3: Data structures supported by the PUT Response Body on this resource

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Data type | P | Cardinality | Response  codes | Description |
| n/a |  |  | 204 No Content | Upon successful update of this resource, an empty response body shall be returned. |
| array(AmfSubscriptionInfo) | M | 1..N | 201 Created | Upon successful update of this resource, a representation of the created resource containing an array of the AmfSubscriptionInfo as allocated by the UDR shall be returned. |
| NOTE: In addition common data structures as listed in table 5.5-1 are supported. | | | | |

##### 5.2.31.3.2 DELETE

This method shall support the URI query parameters specified in table 5.2.31.3.2-1.

Table 5.2.31.3.2-1: URI query parameters supported by the DELETE method on this resource

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

This method shall support the request data structures specified in table 5.2.31.3.2-2 and the response data structures and response codes specified in table 5.2.31.3.2-3.

Table 5.2.31.3.2-2: Data structures supported by the DELETE Request Body on this resource

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

Table 5.2.31.3.2-3: Data structures supported by the DELETE Response Body on this resource

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Data type | P | Cardinality | Response  codes | Description |
| n/a |  |  | 204 No Content | Upon success, an empty response body shall be returned. |
| NOTE: In addition common data structures as listed in table 5.5-1 are supported. | | | | |

##### 5.2.31.3.3 GET

This method shall support the URI query parameters specified in table 5.2.31.3.3-1.

Table 5.2.31.3.3-1: URI query parameters supported by the GET method on this resource

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

This method shall support the request data structures specified in table 5.2.31.3.3-2 and the response data structures and response codes specified in table 5.2.31.3.3-3.

Table 5.2.31.3.3-2: Data structures supported by the GET Request Body on this resource

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

Table 5.2.31.3.3-3: Data structures supported by the GET Response Body on this resource

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Data type | P | Cardinality | Response  codes | Description |
| array(AmfSubscriptionInfo) | M | 1..N | 200 OK | Upon success, a response body containing AMF Subscription Infos shall be returned. |
| NOTE: In addition common data structures as listed in table 5.5-1 are supported. | | | | |

##### 5.2.31.3.4 PATCH

This method is used to modify the AMF subscription Infos in the UDR.

This method shall support the URI query parameters specified in table 5.2.31.3.4-1.

Table 5.2.31.3.4-1: URI query parameters supported by the PATCH method on this resource

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Name | Data type | P | Cardinality | Description |
| supported-features | SupportedFeatures | O | 0..1 | see 3GPP TS 29.500 [8] clause 6.6 |

This method shall support the request data structures specified in table 5.2.31.3.2-2 and the response data structures and response codes specified in table 5.2.31.3.4-3.

Table 5.2.31.3.4-2: Data structures supported by the PATCH Request Body on this resource

|  |  |  |  |
| --- | --- | --- | --- |
| Data type | P | Cardinality | Description |
| array(PatchItem) | M | 1..N | Contains the delta data to the provisioned parameter data |

Table 5.2.31.3.4-3: Data structures supported by the PATCH Response Body on this resource

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Data type | P | Cardinality | Response  codes | Description |
| n/a |  |  | 204 No Content | Upon successful modification there is no body in the response message. (NOTE 2) |
| PatchResult | M | 1 | 200 OK | Upon success, the execution report is returned. (NOTE 2) |
| ProblemDetails | O | 0..1 | 403 Forbidden | If one or more attributes are not allowed to be modified according to e.g. policy or local configuration, then the invalidParams attribute shall contain the JSON pointers of attributes which are not allowed to be modified, and the cause attribute shall be set to "MODIFICATION\_NOT\_ALLOWED", see 3GPP TS 29.500 [8] table 5.2.7.2-1. |
| NOTE 1: In addition common data structures as listed in table 5.5-1 are supported.  NOTE 2: If all the modification instructions in the PATCH request have been implemented, the UDR shall respond with 204 No Content response; if some of the modification instructions in the PATCH request have been discarded, and the NF service consumer has included in the supported-feature query parameter the "PatchReport" feature number, the UDR shall respond with PatchResult. | | | | |

### 5.2.31A Resource: SmfSubscriptionInfo

#### 5.2.31A.1 Description

This resource represents information relevant to an individual EE Subscription for a UE. Depending on the Event Types of the EeSubscription, the UDM may need to consume the Nsmf\_EventExposure\_Subscribe service operation to subscribe at the SMF (see 3GPP TS 29.508 [21]). After successful subscription at the SMF, the UDM needs to store within the UDR related information, e.g. the SubscriptionId allocated by the SMF.

This resource is modelled with the Document resource archetype (see clause C.1 of 3GPP TS 29.501 [7]).

#### 5.2.31A.2 Resource Definition

Resource URI: {apiRoot}/nudr-dr/<apiVersion>/subscription-data/{ueId}/context-data/ee-subscriptions/{subsId}/smf-subscriptions

This resource shall support the resource URI variables defined in table 5.2.31A.2-1.

Table 5.2.31A.2-1: Resource URI variables for this resource

|  |  |
| --- | --- |
| Name | Definition |
| apiRoot | See 3GPP TS 29.504 [2] clause 6.1.1 |
| ueId | Represents the Subscription Identifier SUPI or GPSI (see 3GPP TS 23.501 [4] clause 5.9.2)  pattern: See pattern of type VarUeId in 3GPP TS 29.571 [3] |
| subsId | Identifier of the subscription (allocated by the UDM) |

#### 5.2.31A.3 Resource Standard Methods

##### 5.2.31A.3.1 PUT

This method shall support the URI query parameters specified in table 5.2.31A.3.1-1.

Table 5.2.31A.3.1-1: URI query parameters supported by the PUT method on this resource

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

This method shall support the request data structures specified in table 5.2.31A.3.1-2 and the response data structures, and response codes specified in table 5.2.31A.3.1-3.

Table 5.2.31A.3.1-2: Data structures supported by the PUT Request Body on this resource

|  |  |  |  |
| --- | --- | --- | --- |
| Data type | P | Cardinality | Description |
| SmfSubscriptionInfo | M | 1 | SMF subscription info |

Table 5.2.31A.3.1-3: Data structures supported by the PUT Response Body on this resource

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Data type | P | Cardinality | Response  codes | Description |
| n/a |  |  | 204 No Content | Upon successful update of this resource, an empty response body shall be returned. |
| SmfSubscriptionInfo | M | 1 | 201 Created | Upon successful creation of this resource, a representation of the created resource containing the SmfSubscriptionInfo as allocated by the UDR shall be returned. |
| NOTE: In addition, common data structures as listed in table 5.5-1 are supported. | | | | |

##### 5.2.31A.3.2 DELETE

This method shall support the URI query parameters specified in table 5.2.31A.3.2-1.

Table 5.2.31A.3.2-1: URI query parameters supported by the DELETE method on this resource

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

This method shall support the request data structures specified in table 5.2.31A.3.2-2 and the response data structures, and response codes specified in table 5.2.31A.3.2-3.

Table 5.2.31A.3.2-2: Data structures supported by the DELETE Request Body on this resource

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

Table 5.2.31A.3.2-3: Data structures supported by the DELETE Response Body on this resource

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Data type | P | Cardinality | Response  codes | Description |
| n/a |  |  | 204 No Content | Upon success, an empty response body shall be returned. |
| NOTE: In addition, common data structures as listed in table 5.5-1 are supported. | | | | |

##### 5.2.31A.3.3 GET

This method shall support the URI query parameters specified in table 5.2.31A.3.3-1.

Table 5.2.31A.3.3-1: URI query parameters supported by the GET method on this resource

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

This method shall support the request data structures specified in table 5.2.31A.3.3-2 and the response data structures and response codes specified in table 5.2.31A.3.3-3.

Table 5.2.31A.3.3-2: Data structures supported by the GET Request Body on this resource

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

Table 5.2.31A.3.3-3: Data structures supported by the GET Response Body on this resource

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Data type | P | Cardinality | Response  codes | Description |
| SmfSubscriptionInfo | M | 1 | 200 OK | Upon success, a response body containing SMF Subscription Infos shall be returned. |
| NOTE: In addition, common data structures as listed in table 5.5-1 are supported. | | | | |

##### 5.2.31A.3.4 PATCH

This method is used to modify the SMF subscription Infos in the UDR.

This method shall support the URI query parameters specified in table 5.2.31A.3.4-1.

Table 5.2.31A.3.4-1: URI query parameters supported by the PATCH method on this resource

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Name | Data type | P | Cardinality | Description |
| supported-features | SupportedFeatures | O | 0..1 | see 3GPP TS 29.500 [8] clause 6.6 |

This method shall support the request data structures specified in table 5.2.31A.3.2-2 and the response data structures, and response codes specified in table 5.2.31A.3.4-3.

Table 5.2.31A.3.4-2: Data structures supported by the PATCH Request Body on this resource

|  |  |  |  |
| --- | --- | --- | --- |
| Data type | P | Cardinality | Description |
| array(PatchItem) | M | 1..N | Contains the delta data to the provisioned parameter data |

Table 5.2.31A.3.4-3: Data structures supported by the PATCH Response Body on this resource

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Data type | P | Cardinality | Response  codes | Description |
| n/a |  |  | 204 No Content | Upon successful modification there is no body in the response message. (NOTE 2) |
| PatchResult | M | 1 | 200 OK | Upon success, the execution report is returned. (NOTE 2) |
| ProblemDetails | O | 0..1 | 403 Forbidden | If one or more attributes are not allowed to be modified according to e.g. policy or local configuration, then the invalidParams attribute shall contain the JSON pointers of attributes which are not allowed to be modified, and the cause attribute shall be set to "MODIFICATION\_NOT\_ALLOWED", see 3GPP TS 29.500 [8] table 5.2.7.2-1. |
| NOTE 1: In addition common data structures as listed in table 5.5-1 are supported.  NOTE 2: If all the modification instructions in the PATCH request have been implemented, the UDR shall respond with 204 No Content response; if some of the modification instructions in the PATCH request have been discarded, and the NF service consumer has included in the supported-feature query parameter the "PatchReport" feature number, the UDR shall respond with PatchResult. | | | | |

### 5.2.31B Resource: HssSubscriptionInfo

#### 5.2.31B.1 Description

This resource represents information relevant to an individual EE Subscription for a UE. Depending on the Event Types of the EeSubscription, the UDM may need to consume the Nhss\_EventExposure\_Subscribe service operation to subscribe at the HSS (see 3GPP TS 29.562 [20]). After successful subscription at the HSS, the UDM needs to store within the UDR related information, e.g. the SubscriptionId allocated by the HSS.

This resource is modelled with the Document resource archetype (see clause C.1 of 3GPP TS 29.501 [7]).

#### 5.2.31B.2 Resource Definition

Resource URI: {apiRoot}/nudr-dr/<apiVersion>/subscription-data/{ueId}/context-data/ee-subscriptions/{subsId}/hss-subscriptions

This resource shall support the resource URI variables defined in table 5.2.31B.2-1.

Table 5.2.31B.2-1: Resource URI variables for this resource

|  |  |
| --- | --- |
| Name | Definition |
| apiRoot | See 3GPP TS 29.504 [2] clause 6.1.1 |
| ueId | Represents the Subscription Identifier SUPI or GPSI (see 3GPP TS 23.501 [4] clause 5.9.2)  pattern: See pattern of type VarUeId in 3GPP TS 29.571 [3] |
| subsId | Identifier of the subscription (allocated by the UDM) |

#### 5.2.31B.3 Resource Standard Methods

##### 5.2.31B.3.1 PUT

This method shall support the URI query parameters specified in table 5.2.31B.3.1-1.

Table 5.2.31B.3.1-1: URI query parameters supported by the PUT method on this resource

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

This method shall support the request data structures specified in table 5.2.31B.3.1-2 and the response data structures, and response codes specified in table 5.2.31B.3.1-3.

Table 5.2.31B.3.1-2: Data structures supported by the PUT Request Body on this resource

|  |  |  |  |
| --- | --- | --- | --- |
| Data type | P | Cardinality | Description |
| HssSubscriptionInfo | M | 1 | HSS subscription info |

Table 5.2.31B.3.1-3: Data structures supported by the PUT Response Body on this resource

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Data type | P | Cardinality | Response  codes | Description |
| n/a |  |  | 204 No Content | Upon success, an empty response body shall be returned. |
| HssSubscriptionInfo | M | 1 | 201 Created | Upon successful creation of this resource, a representation of the created resource containing the HssSubscriptionInfo as allocated by the UDR shall be returned. |
| NOTE: In addition, common data structures as listed in table 5.5-1 are supported. | | | | |

##### 5.2.31B.3.2 DELETE

This method shall support the URI query parameters specified in table 5.2.31B.3.2-1.

Table 5.2.31B.3.2-1: URI query parameters supported by the DELETE method on this resource

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

This method shall support the request data structures specified in table 5.2.31B.3.2-2 and the response data structures, and response codes specified in table 5.2.31B.3.2-3.

Table 5.2.31B.3.2-2: Data structures supported by the DELETE Request Body on this resource

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

Table 5.2.31B.3.2-3: Data structures supported by the DELETE Response Body on this resource

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Data type | P | Cardinality | Response  codes | Description |
| n/a |  |  | 204 No Content | Upon success, an empty response body shall be returned. |
| NOTE: In addition, common data structures as listed in table 5.5-1 are supported. | | | | |

##### 5.2.31B.3.3 GET

This method shall support the URI query parameters specified in table 5.2.31B.3.3-1.

Table 5.2.31B.3.3-1: URI query parameters supported by the GET method on this resource

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

This method shall support the request data structures specified in table 5.2.31B.3.3-2 and the response data structures and response codes specified in table 5.2.31B.3.3-3.

Table 5.2.31B.3.3-2: Data structures supported by the GET Request Body on this resource

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

Table 5.2.31B.3.3-3: Data structures supported by the GET Response Body on this resource

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Data type | P | Cardinality | Response  codes | Description |
| HssSubscriptionInfo | M | 1 | 200 OK | Upon success, a response body containing HSS Subscription Infos shall be returned. |
| NOTE: In addition, common data structures as listed in table 5.5-1 are supported. | | | | |

##### 5.2.31B.3.4 PATCH

This method is used to modify the HSS subscription Infos in the UDR.

This method shall support the URI query parameters specified in table 5.2.31B.3.4-1.

Table 5.2.31B.3.4-1: URI query parameters supported by the PATCH method on this resource

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Name | Data type | P | Cardinality | Description |
| supported-features | SupportedFeatures | O | 0..1 | see 3GPP TS 29.500 [8] clause 6.6 |

This method shall support the request data structures specified in table 5.2.31B.3.2-2 and the response data structures, and response codes specified in table 5.2.31B.3.4-3.

Table 5.2.31B.3.4-2: Data structures supported by the PATCH Request Body on this resource

|  |  |  |  |
| --- | --- | --- | --- |
| Data type | P | Cardinality | Description |
| array(PatchItem) | M | 1..N | Contains the delta data to the provisioned parameter data |

Table 5.2.31B.3.4-3: Data structures supported by the PATCH Response Body on this resource

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Data type | P | Cardinality | Response  codes | Description |
| n/a |  |  | 204 No Content | Upon successful modification there is no body in the response message. (NOTE 2) |
| PatchResult | M | 1 | 200 OK | Upon success, the execution report is returned. (NOTE 2) |
| ProblemDetails | O | 0..1 | 403 Forbidden | If one or more attributes are not allowed to be modified according to e.g. policy or local configuration, then the invalidParams attribute shall contain the JSON pointers of attributes which are not allowed to be modified, and the cause attribute shall be set to "MODIFICATION\_NOT\_ALLOWED", see 3GPP TS 29.500 [8] table 5.2.7.2-1. |
| NOTE 1: In addition common data structures as listed in table 5.5-1 are supported.  NOTE 2: If all the modification instructions in the PATCH request have been implemented, the UDR shall respond with 204 No Content response; if some of the modification instructions in the PATCH request have been discarded, and the NF service consumer has included in the supported-feature query parameter the "PatchReport" feature number, the UDR shall respond with PatchResult. | | | | |

### 5.2.32 Resource: ContextData

#### 5.2.32.1 Description

This resource represents the ContextData for a UE ID.

This resource is modelled with the Document resource archetype (see clause C.1 of 3GPP TS 29.501 [7]).

#### 5.2.32.2 Resource Definition

Resource URI: {apiRoot}/nudr-dr/<apiVersion>/subscription-data/{ueId}/context-data

This resource shall support the resource URI variables defined in table 5.2.32.2-1.

Table 5.2.32.2-1: Resource URI variables for this resource

|  |  |
| --- | --- |
| Name | Definition |
| apiRoot | See 3GPP TS 29.504 [2] clause 6.1.1 |
| ueId | Represents the Subscription Identifier SUPI or GPSI (see 3GPP TS 23.501 [4] clause 5.9.2)  pattern: See pattern of type VarUeId in 3GPP TS 29.571 [3] |

#### 5.2.32.3 Resource Standard Methods

##### 5.2.32.3.1 GET

This method shall support the URI query parameters specified in table 5.2.32.3.1-1.

Table 5.2.32.3.1-1: URI query parameters supported by the GET method on this resource

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Name | Data type | P | Cardinality | Description |
| context-dataset-names | array(ContextDataSetName) | M | 2..N | If included, this IE shall contain the names of context data sets to be retrieved. |

This method shall support the request data structures specified in table 5.2.32.3.1-2 and the response data structures and response codes specified in table 5.2.32.3.1-3.

Table 5.2.32.3.1-2: Data structures supported by the GET Request Body on this resource

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

Table 5.2.32.3.1-3: Data structures supported by the GET Response Body on this resource

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Data type | P | Cardinality | Response  codes | Description |
| ContextDataSets | M | 1 | 200 OK | Upon success, a response body containing the requested context data sets shall be returned. |
| NOTE: In addition common data structures as listed in table 5.5-1 are supported. | | | | |

Table 5.2.32.3.1-4: Headers supported by the 200 response code on this resource

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Name | Data type | P | Cardinality | Description |
| 3gpp-Sbi-Etags | string | O | 0..1 | See 3GPP TS 29.504 [2] |

### 5.2.33 Resource: GroupIdentifiers

#### 5.2.33.1 Description

This resource represents the collection of data that can be shared by multiple UEs.

#### 5.2.33.2 Resource Definition

Resource URI: {apiRoot}/nudr-dr/<apiVersion>/subscription-data/group-data/group-identifiers

This resource shall support the resource URI variables defined in table 5.2.33.2-1.

Table 5.2.33.2-1: Resource URI variables for this resource

|  |  |
| --- | --- |
| Name | Definition |
| apiRoot | See 3GPP TS 29.504 [2] clause 6.1.1 |

#### 5.2.33.3 Resource Standard Methods

##### 5.2.33.3.1 GET

This method shall support the URI query parameters specified in table 5.2.33.3.1-1.

Table 5.2.33.3.1-1: URI query parameters supported by the GET method on this resource

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Name | Data type | P | Cardinality | Description |
| supported-features | SupportedFeatures | O | 0..1 | see 3GPP TS 29.500 [8] clause 6.6 |
| ext-groud-id | ExtGroupId | C | 0..1 | External Group ID |
| int-group-id | GroupId | C | 0..1 | Internal Group ID |
| ue-id-ind | boolean | C | 0..1 | Indication whether UE identifiers are required or not.  When present, it shall be set as following:  - true: UE identifiers are required  - false (default): UE identifiers are not required |
| NOTE: Either ext-group-id or int-group-id shall be present in the request. | | | | |

Either the ext-group-id or the int-group-id shall be present in the request.

This method shall support the request data structures specified in table 5.2.33.3.1-2 and the response data structures and response codes specified in table 5.2.33.3.1-3.

Table 5.2.33.3.1-2: Data structures supported by the GET Request Body on this resource

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

Table 5.2.33.3.1-3: Data structures supported by the GET Response Body on this resource

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Data type | P | Cardinality | Response  codes | Description |
| GroupIdentifiers | M | 1 | 200 OK | Upon success, a response body containing the group identifier(s) shall be returned. |
| ProblemDetails | O | 0..1 | 404 Not Found | If the ueId does not exist, a response code of 404 Not Found shall be returned. The "cause" attribute may be used to indicate one of the following application errors:  - GROUP\_IDENTIFIER\_NOT\_FOUND  - DATA\_NOT\_FOUND |
| NOTE: In addition, common data structures as listed in table 5.5-1 are supported. | | | | |

### 5.2.34 Resource: 5GVnGroups

#### 5.2.34.1 Description

This resource represents the store of 5G VN Group data.

#### 5.2.34.2 Resource Definition

Resource URI: {apiRoot}/nudr-dr/<apiVersion>/subscription-data/group-data/5g-vn-groups

This resource shall support the resource URI variables defined in table 5.2.34.2-1.

Table 5.2.34.2-1: Resource URI variables for this resource

|  |  |
| --- | --- |
| Name | Definition |
| apiRoot | See 3GPP TS 29.504 [2] clause 6.1.1 |

#### 5.2.34.3 Resource Standard Methods

##### 5.2.34.3.1 GET

This method shall support the URI query parameters specified in table 5.2.34.3.1-1.

Table 5.2.34.3.1-1: URI query parameters supported by the GET method on this resource

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Name | Data type | P | Cardinality | Description |
| gpsis | array(Gpsi) | O | 0..N | Only those group's data are retrieved of which at least one of the GPSIs is a member |

This method shall support the request data structures specified in table 5.2.34.3.1-2 and the response data structures and response codes specified in table 5.2.34.3.1-3.

Table 5.2.34.3.1-2: Data structures supported by the GET Request Body on this resource

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

Table 5.2.34.3.1-3: Data structures supported by the GET Response Body on this resource

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Data type | P | Cardinality | Response  codes | Description |
| map(5GVnGroupConfiguration) | M | 0..N | 200 OK | Upon success, a response body containing the map (list of key-value pairs where ExtGroupId (see 3GPP TS 29.503 [6] serves as key) of 5GVnGroupConfiguration shall be returned.  If the resource does not contain any keys, the response consists of an empty JSON object (empty map). |
| NOTE: In addition, common data structures as listed in table 5.5-1 are supported. | | | | |

### 5.2.35 Resource: Individual5GVnGroup

#### 5.2.35.1 Description

This resource represents an individual 5G VN Group.

This resource is modelled with the Document resource archetype (see clause C.1 of 3GPP TS 29.501 [7]).

#### 5.2.35.2 Resource Definition

Resource URI: {apiRoot}/nudr-dr/<apiVersion>/subscription-data/group-data/5g-vn-groups/{externalGroupId}

This resource shall support the resource URI variables defined in table 5.2.35.2-1.

Table 5.2.35.2-1: Resource URI variables for this resource

|  |  |
| --- | --- |
| Name | Definition |
| apiRoot | See 3GPP TS 29.504 [2] clause 6.1.1 |
| externalGroupId | Represents the External Identifier of the group |

#### 5.2.35.3 Resource Standard Methods

##### 5.2.35.3.1 PUT

This method shall support the URI query parameters specified in table 5.2.35.3.1-1.

Table 5.2.35.3.1-1: URI query parameters supported by the PUT method on this resource

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

This method shall support the request data structures specified in table 5.2.35.3.1-2 and the response data structures and response codes specified in table 5.2.35.3.1-3.

Table 5.2.35.3.1-2: Data structures supported by the PUT Request Body on this resource

|  |  |  |  |
| --- | --- | --- | --- |
| Data type | P | Cardinality | Description |
| 5GVnGroupConfiguration | M | 1 | See 3GPP TS 29.503 [6] |

Table 5.2.35.3.1-3: Data structures supported by the PUT Response Body on this resource

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Data type | P | Cardinality | Response  codes | Description |
| 5GVnGroupConfiguration | M | 1 | 201 Created | Upon success, a representation of the created resource shall be returned. |
| ProblemDetails | O | 0..1 | 403 Forbidden | If the resource already exists, a response code of 403 Forbidden shall be returned. |
| ProblemDetails | O | 0..1 | 403 Forbidden | If the internal group identifier allocated by the UDM is not unique (i.e. already exists in a 5GVnGroup identified by a different external group ID) a response code of 403 Forbidden shall be returned with application error INTERNAL\_GROUP\_ID\_NOT\_UNIQUE. |
| NOTE: In addition common data structures as listed in table 5.5-1 are supported. | | | | |

NOTE: Creation of an Individual5GVnGroup has impacts to the UDR, to ensure consistency with other resources. These consistencies can be ensured by UDR-internal solutions.   
After successful creation of an Individual5GVnGroup, representations of the resources AccessAndMobilitySubscriptionData and SessionManagementSubscriptionData associated to group member UEs may be retrieved by UDR-consumers (see clause 5.2.3.3.1 and 5.2.5.3.1). It is expected that the retrieved AccessAndMobilitySubscriptionData and the retrieved SessionManagementSubscriptionData contain group relevant information (e.g. the internal group id) of the Individual5GVnGroup the UE belongs to.  
Similarly, the representation of the resource GroupIdentifiers may be retrieved by UDR consumers (see clause 5.2.33.3.1). It is expected that the retrieved GroupIdentifiers contain 5GVnGroup related information (e.g. external group Id, Internal Group Id, group member UEs) as part of the created 5GVnGroupConfiguration.

##### 5.2.35.3.2 DELETE

This method shall support the URI query parameters specified in table 5.2.35.3.2-1.

Table 5.2.35.3.2-1: URI query parameters supported by the DELETE method on this resource

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

This method shall support the request data structures specified in table 5.2.35.3.2-2 and the response data structures and response codes specified in table 5.2.19.3.2-3.

Table 5.2.35.3.2-2: Data structures supported by the DELETE Request Body on this resource

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

Table 5.2.35.3.2-3: Data structures supported by the DELETE Response Body on this resource

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Data type | P | Cardinality | Response  codes | Description |
| n/a |  |  | 204 No Content | Upon success, an empty response body shall be returned. |
| NOTE: In addition common data structures as listed in table 5.5-1 are supported. | | | | |

##### 5.2.35.3.3 PATCH

This method shall support the URI query parameters specified in table 5.2.35.3.3-1.

Table 5.2.35.3.3-1: URI query parameters supported by the PATCH method on this resource

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Name | Data type | P | Cardinality | Description |
| supported-features | SupportedFeatures | O | 0..1 | see 3GPP TS 29.500 [8] clause 6.6 |

This method shall support the request data structures specified in table 5.2.35.3.3-2 and the response data structures and response codes specified in table 5.2.35.3.3-3.

Table 5.2.35.3.3-2: Data structures supported by the PATCH Request Body on this resource

|  |  |  |  |
| --- | --- | --- | --- |
| Data type | P | Cardinality | Description |
| array(PatchItem) | M | 1..N | Contains the delta data to the Individual 5GNvGroup |

Table 5.2.35.3.3-3: Data structures supported by the PATCH Response Body on this resource

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Data type | P | Cardinality | Response  codes | Description |
| n/a |  |  | 204 No Content | Upon successful modification, there is no body in the response message. (NOTE 2) |
| PatchResult | M | 1 | 200 OK | Upon success, the execution report is returned. (NOTE 2) |
| ProblemDetails | O | 0..1 | 404 Not Found | If the resource corresponding to the ExternalGroupId can't be found, the "cause" attribute shall be set to:  - GROUP\_IDENTIFIER\_NOT\_FOUND |
| O | 0..1 | 403 Forbidden | If one or more attributes are not allowed to be modified according to e.g. policy or local configuration, then  the invalidParams attribute shall contain the JSON pointers of attributes which are not allowed to be modified, and  the cause attribute shall be set to "MODIFICATION\_NOT\_ALLOWED", see 3GPP TS 29.500 [8] table 5.2.7.2-1 |
| NOTE 1: In addition common data structures as listed in table 5.5-1 are supported.  NOTE 2: If all the modification instructions in the PATCH request have been implemented, the UDR shall respond with 204 No Content response; if some of the modification instructions in the PATCH request have been discarded, and the NF service consumer has included in the supported-feature query parameter the "PatchReport" feature number, the UDR shall respond with PatchResult. | | | | |

##### 5.2.35.3.4 GET

This method shall support the URI query parameters specified in table 5.2.35.3.4-1.

Table 5.2.35.3.4-1: URI query parameters supported by the GET method on this resource

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Name | Data type | P | Cardinality | Description |
| supported-features | SupportedFeatures | O | 0..1 | see 3GPP TS 29.500 [8] clause 6.6 |

This method shall support the request data structures specified in table 5.2.35.3.4-2 and the response data structures and response codes specified in table 5.2.35.3.4-3.

Table 5.2.35.3.4-2: Data structures supported by the GET Request Body on this resource

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

Table 5.2.35.3.4-3: Data structures supported by the GET Response Body on this resource

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Data type | P | Cardinality | Response  codes | Description |
| 5GVnGroupConfiguration | M | 1 | 200 OK | Upon success, a response body containing the group configuration of the individual 5G VN Group shall be returned. |
| NOTE: In addition, common data structures as listed in table 5.5-1 are supported. | | | | |

### 5.2.36 Resource: LcsPrivacySubscriptionData

#### 5.2.36.1 Description

This resource represents the subscribed LcsPrivacySubscriptionData for an UE. It is queried by the HGMLC or NEF via the UDM.

This resource is modelled with the Document resource archetype (see clause C.1 of 3GPP TS 29.501 [7]).

#### 5.2.36.2 Resource Definition

Resource URI: {apiRoot}/nudr-dr/<apiVersion>/subscription-data/{ueId}/lcs-privacy-data

This resource shall support the resource URI variables defined in table 5.2.36.2-1.

Table 5.2.36.2-1: Resource URI variables for this resource

|  |  |
| --- | --- |
| Name | Definition |
| apiRoot | See 3GPP TS 29.504 [2] clause 6.1.1 |
| ueId | Represents the Subscription Identifier SUPI or GPSI (see 3GPP TS 23.501 [4] clause 5.9.2)  pattern: See pattern of type VarUeId in 3GPP TS 29.571 [3]. |

#### 5.2.36.3 Resource Standard Methods

##### 5.2.36.3.1 GET

This method shall support the URI query parameters specified in table 5.2.36.3.1-1.

Table 5.2.36.3.1-1: URI query parameters supported by the GET method on this resource

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Name | Data type | P | Cardinality | Description |
| fields | array(string) | C | 1..N | When the NF consumer only retrieves a subset of the resource, the " fields " query parameter shall be included. The " fields " query parameter contains the pointers of the attribute(s) to be retrieved. |
| supported-features | SupportedFeatures | O | 0..1 | see 3GPP TS 29.500 [8] clause 6.6 |

This method shall support the request data structures specified in table 5.2.36.3.1-2 and the response data structures and response codes specified in table 5.2.36.3.1-3.

Table 5.2.36.3.1-2: Data structures supported by the GET Request Body on this resource

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

Table 5.2.36.3.1-3: Data structures supported by the GET Response Body on this resource

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Data type | P | Cardinality | Response  codes | Description |
| LcsPrivacyData | M | 1 | 200 OK | Upon success, a response body containing the LCS Privacy Subscription Data shall be returned. |
| NOTE: In addition common data structures as listed in table 5.5-1 are supported. | | | | |

### 5.2.37 Resource: LcsMobileOriginatedSubscriptionData

#### 5.2.37.1 Description

This resource represents the subscribed LcsMobileOriginatedSubscriptionData for a SUPI. It is queried by the AMF via the UDM after registering.

This resource is modelled with the Document resource archetype (see clause C.1 of 3GPP TS 29.501 [7]).

#### 5.2.37.2 Resource Definition

Resource URI: {apiRoot}/nudr-dr/<apiVersion>/subscription-data/{ueId}/lcs-mo-data

This resource shall support the resource URI variables defined in table 5.2.37.2-1.

Table 5.2.37.2-1: Resource URI variables for this resource

|  |  |
| --- | --- |
| Name | Definition |
| apiRoot | See 3GPP TS 29.504 [2] clause 6.1.1 |
| ueId | Represents the Subscription Identifier SUPI or GPSI (see 3GPP TS 23.501 [4] clause 5.9.2)  See pattern of type VarUeId in 3GPP TS 29.571 [3] |

#### 5.2.37.3 Resource Standard Methods

##### 5.2.37.3.1 GET

This method shall support the URI query parameters specified in table 5.2.37.3.1-1.

Table 5.2.37.3.1-1: URI query parameters supported by the GET method on this resource

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Name | Data type | P | Cardinality | Description |
| fields | array(string) | C | 1..N | When the NF consumer only retrieves a subset of the resource, the " fields " query parameter shall be included. The " fields " query parameter contains the pointers of the attribute(s) to be retrieved. |
| supported-features | SupportedFeatures | O | 0..1 | see 3GPP TS 29.500 [8] clause 6.6 |

This method shall support the request data structures specified in table 5.2.37.3.1-2 and the response data structures and response codes specified in table 5.2.37.3.1-3.

Table 5.2.37.3.1-2: Data structures supported by the GET Request Body on this resource

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

Table 5.2.37.3.1-3: Data structures supported by the GET Response Body on this resource

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Data type | P | Cardinality | Response  codes | Description |
| LcsMoData | M | 1 | 200 OK | Upon success, a response body containing the LCS Mobile Originated Subscription Data shall be returned. |
| NOTE: In addition common data structures as listed in table 5.5-1 are supported. | | | | |

### 5.2.38 Resource: NiddAuthorizationData

#### 5.2.38.1 Description

This resource represents the subscribed NiddAuthorizationData for a GPSI. It is queried by the UDM during NIDD Authorization Data Retrieval and NIDD Authorization Data Update Notification.

This resource is modelled with the Document resource archetype (see clause C.1 of 3GPP TS 29.501 [7]).

#### 5.2.38.2 Resource Definition

Resource URI: {apiRoot}/nudr-dr/<apiVersion>/subscription-data/{ueId}/nidd-authorization-data

This resource shall support the resource URI variables defined in table 5.2.38.2-1.

Table 5.2.38.2-1: Resource URI variables for this resource

|  |  |
| --- | --- |
| Name | Definition |
| apiRoot | See 3GPP TS 29.504 [2] clause 6.1.1 |
| ueId | Represents the Generic Public Subscription Identifier (see 3GPP TS 23.501 [4] clause 5.9.8)  pattern: '^(msisdn-[0-9]{5,15}|.+|extid-[^@]+@[^@]+|extgroupid-[^@]+@[^@]+)$' |

#### 5.2.38.3 Resource Standard Methods

##### 5.2.38.3.1 GET

This method shall support the URI query parameters specified in table 5.2.38.3.1-1.

Table 5.2.38.3.1-1: URI query parameters supported by the GET method on this resource

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Name | Data type | P | Cardinality | Description |
| single-nssai | Snssai | M | 1 | When present without Slice Differentiator (sd), all slices identified by the given Slice/Service Type (sst) and any sd value (if any) shall be considered matching the query parameter. |
| dnn | Dnn | M | 1 |  |
| mtc-provider-information | MtcProviderInformation | M | 1 |  |
| af-id | string | O | 0..1 | When present, indicates the string identifying the originating AF. |
| NOTE: This attribute shall contain an empty string when no MTC Provider information is available to the UDR service consumer. | | | | |

This method shall support the request data structures specified in table 5.2.38.3.1-2 and the response data structures and response codes specified in table 5.2.38.3.1-3.

Table 5.2.38.3.1-2: Data structures supported by the GET Request Body on this resource

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

Table 5.2.38.3.1-3: Data structures supported by the GET Response Body on this resource

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Data type | P | Cardinality | Response  codes | Description |
| AuthorizationData | M | 1 | 200 OK | Upon success, a response body containing the NIDD Authorization Data shall be returned. |
| ProblemDetails | O | 1 | 404 Not Found | The "cause" attribute may be used to indicate one of the following application errors:  - USER\_NOT\_FOUND |
| ProblemDetails | O | 0..1 | 403 Forbidden | The "cause" attribute may be used to indicate one of the following application errors:  - DNN\_NOT\_ALLOWED  - MTC\_PROVIDER\_NOT\_ALLOWED  - AF\_INSTANCE\_NOT\_ALLOWED  - SNNSAI\_NOT\_ALLOWED |
| NOTE: In addition, common data structures as listed in table 5.5-1 are supported. | | | | |

### 5.2.39 Resource: CoverageRestrictionData

#### 5.2.39.1 Description

This resource represents UE's subscribed enhanced Coverage Restriction Data for a UE identifier. It is queried by the UDM during Enhanced Coverage Restriction Data Retrieval.

This resource is modelled with the Document resource archetype (see clause C.1 of 3GPP TS 29.501 [7]).

#### 5.2.39.2 Resource Definition

Resource URI: {apiRoot}/nudr-dr/<apiVersion>/subscription-data/{ueId}/coverage-restriction-data

This resource shall support the resource URI variables defined in table 5.2.39.2-1.

Table 5.2.39.2-1: Resource URI variables for this resource

|  |  |
| --- | --- |
| Name | Definition |
| apiRoot | See 3GPP TS 29.504 [2] clause 6.1.1 |
| ueId | Represents the Generic Public Subscription Identifier (see 3GPP TS 23.501 [4] clause 5.9.8)  pattern: '^(msisdn-[0-9]{5,15}|extid-[^@]+@[^@]+|.+)$' |

#### 5.2.39.3 Resource Standard Methods

##### 5.2.39.3.1 GET

This method shall support the URI query parameters specified in table 5.2.39.3.1-1.

Table 5.2.39.3.1-1: URI query parameters supported by the GET method on this resource

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Name | Data type | P | Cardinality | Description |
| supported-features | SupportedFeatures | O | 0..1 | see 3GPP TS 29.500 [8] clause 6.6 |

This method shall support the request data structures specified in table 5.2.39.3.1-2 and the response data structures and response codes specified in table 5.2.39.3.1-3.

Table 5.2.39.3.1-2: Data structures supported by the GET Request Body on this resource

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

Table 5.2.39.3.1-3: Data structures supported by the GET Response Body on this resource

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Data type | P | Cardinality | Response  codes | Description |
| EnhancedCoverageRestrictionData | M | 1 | 200 OK | Upon success, a response body containing UE's subscribed enhanced Coverage Restriction Data. |
| NOTE: In addition, common data structures as listed in table 5.5-1 are supported. | | | | |

### 5.2.40 Resource: Location

#### 5.2.40.1 Description

This resource represents the UE's Location Information for UE's identity (e.g. SUPI or GPSI).

This resource is modelled with the Document resource archetype (see clause C.1 of 3GPP TS 29.501 [7]).

#### 5.2.40.2 Resource Definition

Resource URI: {apiRoot}/nudr-dr/<apiVersion>/subscription-data/{ueId}/context-data/location

This resource shall support the resource URI variables defined in table 5.2.40.2-1.

Table 5.2.40.2-1: Resource URI variables for this resource

|  |  |
| --- | --- |
| Name | Definition |
| apiRoot | See 3GPP TS 29.504 [2] clause 6.1.1 |
| ueId | Represents the Subscription Identifier SUPI or GPSI (see 3GPP TS 23.501 [4] clause 5.9.2)   pattern: See pattern of type VarUeId in 3GPP TS 29.571 [3] |

#### 5.2.40.3 Resource Standard Methods

##### 5.2.40.3.1 GET

This method shall support the URI query parameters specified in table 5.2.40.3.1-1.

Table 5.2.40.3.1-1: URI query parameters supported by the GET method on this resource

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Name | Data type | P | Cardinality | Description |
| supported-features | SupportedFeatures | O | 0..1 | see 3GPP TS 29.500 [8] clause 6.6 |

This method shall support the request data structures specified in table 5.2.40.3.1-2 and the response data structures and response codes specified in table 5.2.40.3.1-3.

Table 5.2.40.3.1-2: Data structures supported by the GET Request Body on this resource

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

Table 5.2.40.3.1-3: Data structures supported by the GET Response Body on this resource

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Data type | P | Cardinality | Response  codes | Description |
| LocationInfo | M | 1 | 200 OK | Upon success, a response body containing the LocationInfo shall be returned. |
| NOTE: In addition common data structures as listed in table 5.5-1 are supported. | | | | |

### 5.2.41 Resource: V2xSubscriptionData

#### 5.2.41.1 Description

This resource represents UE's subscribed V2X Data for a UE identifier. It is queried by the UDM during V2X Subscription Data Retrieval.

This resource is modelled with the Document resource archetype (see clause C.1 of 3GPP TS 29.501 [7]).

#### 5.2.41.2 Resource Definition

Resource URI: {apiRoot}/nudr-dr/<apiVersion>/subscription-data/{ueId}/v2x-data

This resource shall support the resource URI variables defined in table 5.2.41.2-1.

Table 5.2.41.2-1: Resource URI variables for this resource

|  |  |
| --- | --- |
| Name | Definition |
| apiRoot | See 3GPP TS 29.504 [2] clause 6.1.1 |
| ueId | Represents the Subscription Permanent Identifier (see 3GPP TS 23.501 [4] clause 5.9.2) or the Generic Public Subscription Identifier (see 3GPP TS 23.501 [4] clause 5.9.8).  pattern: See pattern of type VarUeId in 3GPP TS 29.571 [3] |

#### 5.2.41.3 Resource Standard Methods

##### 5.2.41.3.1 GET

This method shall support the URI query parameters specified in table 5.2.41.3.1-1.

Table 5.2.41.3.1-1: URI query parameters supported by the GET method on this resource

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Name | Data type | P | Cardinality | Description |
| supported-features | SupportedFeatures | O | 0..1 | see 3GPP TS 29.500 [8] clause 6.6 |

This method shall support the request data structures specified in table 5.2.41.3.1-2 and the response data structures and response codes specified in table 5.2.41.3.1-3.

Table 5.2.41.3.1-2: Data structures supported by the GET Request Body on this resource

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

Table 5.2.41.3.1-3: Data structures supported by the GET Response Body on this resource

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Data type | P | Cardinality | Response  codes | Description |
| V2xSubscriptionData | M | 1 | 200 OK | Upon success, a response body containing UE's subscribed V2X Data. |
| NOTE: In addition, common data structures as listed in table 5.5-1 are supported. | | | | |

### 5.2.41A Resource: ProseSubscriptionData

#### 5.2.41A.1 Description

This resource represents UE's subscribed ProSe Service Data for a UE identifier. It is queried by the UDM during ProSe Subscription Data Data Retrieval.

This resource is modelled with the Document resource archetype (see clause C.1 of 3GPP TS 29.501 [7]).

#### 5.2.41A.2 Resource Definition

Resource URI: {apiRoot}/nudr-dr/<apiVersion>/subscription-data/{ueId}/prose-data

This resource shall support the resource URI variables defined in table 5.2.41A.2-1.

Table 5.2.41A.2-1: Resource URI variables for this resource

|  |  |
| --- | --- |
| Name | Definition |
| apiRoot | See 3GPP TS 29.504 [2] clause 6.1.1 |
| ueId | Represents the Subscription Permanent Identifier (see 3GPP TS 23.501 [4] clause 5.9.2) or the Generic Public Subscription Identifier (see 3GPP TS 23.501 [4] clause 5.9.8).  pattern: See pattern of type VarUeId in 3GPP TS 29.571 [3] |

#### 5.2.41A.3 Resource Standard Methods

##### 5.2.41A.3.1 GET

This method shall support the URI query parameters specified in table 5.2.41A.3.1-1.

Table 5.2.41A.3.1-1: URI query parameters supported by the GET method on this resource

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Name | Data type | P | Cardinality | Description |
| supported-features | SupportedFeatures | O | 0..1 | see 3GPP TS 29.500 [8] clause 6.6 |

This method shall support the request data structures specified in table 5.2.41A.3.1-2 and the response data structures and response codes specified in table 5.2.41A.3.1-3.

Table 5.2.41A.3.1-2: Data structures supported by the GET Request Body on this resource

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

Table 5.2.41A.3.1-3: Data structures supported by the GET Response Body on this resource

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Data type | P | Cardinality | Response  codes | Description |
| ProseSubscriptionData | M | 1 | 200 OK | Upon success, a response body containing UE's subscribed ProSe Service Data. |
| NOTE: In addition, common data structures as listed in table 5.5-1 are supported. | | | | |

### 5.2.42 Resource: LcsBroadcastAssistanceSubscriptionData

#### 5.2.42.1 Description

This resource represents the subscribed LcsBroadcast Assistance Subscription Data for an UE for use in a serving PLMN. It is queried by the LMF via the UDM.

This resource is modelled with the Document resource archetype (see clause C.1 of 3GPP TS 29.501 [7]).

#### 5.2.42.2 Resource Definition

Resource URI: {apiRoot}/nudr-dr/<apiVersion>/subscription-data/{ueId}/{servingPlmnId}/provisioned-data/lcs-bca-data

This resource shall support the resource URI variables defined in table 5.2.42.2-1.

Table 5.2.42.2-1: Resource URI variables for this resource

|  |  |
| --- | --- |
| Name | Definition |
| apiRoot | See 3GPP TS 29.504 [2] clause 6.1.1 |
| ueId | Represents the Subscription Identifier SUPI or GPSI (see 3GPP TS 23.501 [4] clause 5.9.2 and 5.9.8)  See pattern of type VarUeId in 3GPP TS 29.571 [3] |
| servingPlmnId | Represents the Serving PLMN ID (consisting of MCC, MNC) or SNPN (consisting of MCC, MNC and NID); see clauses 12.1 and 17.2 in 3GPP TS 23.003 [5].  pattern: "^[0-9]{5,6}(-[A-Fa-f0-9]{11})?$" |

#### 5.2.42.3 Resource Standard Methods

##### 5.2.42.3.1 GET

This method shall support the URI query parameters specified in table 5.2.42.3.1-1.

Table 5.2.42.3.1-1: URI query parameters supported by the GET method on this resource

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Name | Data type | P | Cardinality | Description |
| supported-features | SupportedFeatures | O | 0..1 | see 3GPP TS 29.500 [8] clause 6.6 |

This method shall support the request data structures specified in table 5.2.42.3.1-2 and the response data structures and response codes specified in table 5.2.42.3.1-3.

Table 5.2.42.3.1-2: Data structures supported by the GET Request Body on this resource

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

Table 5.2.42.3.1-3: Data structures supported by the GET Response Body on this resource

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Data type | P | Cardinality | Response  codes | Description |
| LcsBroadcastAssistanceTypesData | M | 1 | 200 OK | Upon success, a response body containing the LCS Broadcast Assistance Data Subscription Data shall be returned. |
| NOTE: In addition common data structures as listed in table 5.5-1 are supported. | | | | |

### 5.2.43 Resource: 5GVnGroupsInternal

#### 5.2.43.1 Description

This resource represents a read-only view of the collection resource of 5G VN Group data, so it can be queried based on the Internal Group Id from NF Service Consumers having such Id as the only way to identify a group (e.g. PCF).

#### 5.2.43.2 Resource Definition

Resource URI: {apiRoot}/nudr-dr/<apiVersion>/subscription-data/group-data/5g-vn-groups/internal

This resource shall support the resource URI variables defined in table 5.2.43.2-1.

Table 5.2.43.2-1: Resource URI variables for this resource

|  |  |
| --- | --- |
| Name | Definition |
| apiRoot | See 3GPP TS 29.504 [2] clause 6.1.1 |

#### 5.2.43.3 Resource Standard Methods

##### 5.2.43.3.1 GET

This method shall support the URI query parameters specified in table 5.2.43.3.1-1.

Table 5.2.43.3.1-1: URI query parameters supported by the GET method on this resource

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Name | Data type | P | Cardinality | Description |
| internal-group-ids | array(GroupId) | M | 1..N | Return those 5G VN groups whose Internal Group ID corresponds with any of the Group IDs in this list. |

This method shall support the request data structures specified in table 5.2.43.3.1-2 and the response data structures and response codes specified in table 5.2.43.3.1-3.

Table 5.2.43.3.1-2: Data structures supported by the GET Request Body on this resource

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

Table 5.2.43.3.1-3: Data structures supported by the GET Response Body on this resource

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Data type | P | Cardinality | Response  codes | Description |
| map(5GVnGroupConfiguration) | M | 0..N | 200 OK | Upon success, a response body containing the map (list of key-value pairs where ExtGroupId (see 3GPP TS 29.503 [6] serves as key) of 5GVnGroupConfiguration shall be returned.  If the resource does not contain any keys, the response consists of an empty JSON object (empty map). |

### 5.2.44 Resource: Pp5gVnGroupProfileData

#### 5.2.44.1 Description

This resource represents the Parameter Provision Profile Data for the 5G VN Groups. It is queried by the UDM.

#### 5.2.44.2 Resource Definition

Resource URI: {apiRoot}/nudr-dr/<apiVersion>/subscription-data/group-data/5g-vn-groups/pp-profile-data

This resource shall support the resource URI variables defined in table 5.2.44.2-1.

Table 5.2.44.2-1: Resource URI variables for this resource

|  |  |
| --- | --- |
| Name | Definition |
| apiRoot | See clause 6.1.1 |

#### 5.2.44.3 Resource Standard Methods

##### 5.2.44.3.1 GET

This method shall support the URI query parameters specified in table 5.2.44.3.1-1.

Table 5.2.44.3.1-1: URI query parameters supported by the GET method on this resource

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Name | Data type | P | Cardinality | Description |
| ext-group-ids | array(ExtGroupId) | O | 1..N | If included, this IE Contain a list of external VN group identifiers for which the profiles are retrieved. |
| supported-features | SupportedFeatures | O | 0..1 | see 3GPP TS 29.500 [8] clause 6.6 |

This method shall support the request data structures specified in table 5.2.44.3.1-2 and the response data structures and response codes specified in table 5.2.44.3.1-3.

Table 5.2.44.3.1-2: Data structures supported by the GET Request Body on this resource

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

Table 5.2.44.3.1-3: Data structures supported by the GET Response Body on this resource

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Data type | P | Cardinality | Response  codes | Description |
| Pp5gVnGroupProfileData | M | 1 | 200 OK | Upon success, a response body containing the Parameter Provision Profile for 5G VN Groups. |
| NOTE: In addition, common data structures as listed in table 5.5-1 are supported. | | | | |

### 5.2.45 Resource: NiddAuthorizations

#### 5.2.45.1 Description

This resource represents information relevant to NIDD authorizations. After successful NIDD authorization, the UDM needs to store within the UDR related information (e.g. authUpdateCallbackUri), so that it is possible to notify the UDM consumer later on if something has changed affecting these authorizations.

This resource is modelled with the Document resource archetype (see clause C.1 of 3GPP TS 29.501 [7]).

#### 5.2.45.2 Resource Definition

Resource URI: {apiRoot}/nudr-dr/<apiVersion>/subscription-data/{ueId}/context-data/nidd-authorizations

This resource shall support the resource URI variables defined in table 5.2.45.2-1.

Table 5.2.45.2-1: Resource URI variables for this resource

|  |  |
| --- | --- |
| Name | Definition |
| apiRoot | See 3GPP TS 29.504 [2] clause 6.1.1 |
| ueId | Represents the Subscription Identifier SUPI or GPSI (see 3GPP TS 23.501 [4] clause 5.9.2)  pattern: See pattern of type VarUeId in 3GPP TS 29.571 [3] |

#### 5.2.45.3 Resource Standard Methods

##### 5.2.45.3.1 PUT

This method shall support the URI query parameters specified in table 5.2.45.3.1-1.

Table 5.2.45.3.1-1: URI query parameters supported by the PUT method on this resource

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

This method shall support the request data structures specified in table 5.2.45.3.1-2 and the response data structure, and response codes specified in table 5.2.45.3.1-3.

Table 5.2.45.3.1-2: Data structures supported by the PUT Request Body on this resource

|  |  |  |  |
| --- | --- | --- | --- |
| Data type | P | Cardinality | Description |
| NiddAuthorizationInfo | M | 1 | NIDD Authorization Data |

Table 5.2.45.3.1-3: Data structures supported by the PUT Response Body on this resource

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Data type | P | Cardinality | Response  codes | Description |
| n/a |  |  | 204 No Content | Upon successful update of this resource, an empty response body shall be returned. |
| NiddAuthorizationInfo | M | 1 | 201 Created | Upon successful creation of this resource, a representation of the created resource containing an array of the NiddAuthorizationData as allocated by the UDR shall be returned. |
| NOTE: In addition, common data structures as listed in table 5.5-1 are supported. | | | | |

##### 5.2.45.3.2 DELETE

This method shall support the URI query parameters specified in table 5.2.45.3.2-1.

Table 5.2.45.3.2-1: URI query parameters supported by the DELETE method on this resource

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

This method shall support the request data structures specified in table 5.2.45.3.2-2 and the response data structure, and response codes specified in table 5.2.45.3.2-3.

Table 5.2.45.3.2-2: Data structures supported by the DELETE Request Body on this resource

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

Table 5.2.45.3.2-3: Data structures supported by the DELETE Response Body on this resource

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Data type | P | Cardinality | Response  codes | Description |
| n/a |  |  | 204 No Content | Upon success, an empty response body shall be returned. |
| NOTE: In addition, common data structures as listed in table 5.5-1 are supported. | | | | |

##### 5.2.45.3.3 GET

This method shall support the URI query parameters specified in table 5.2.45.3.3-1.

Table 5.2.45.3.3-1: URI query parameters supported by the GET method on this resource

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

This method shall support the request data structures specified in table 5.2.45.3.3-2 and the response data structure and response codes specified in table 5.2.45.3.3-3.

Table 5.2.45.3.3-2: Data structures supported by the GET Request Body on this resource

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

Table 5.2.45.3.3-3: Data structures supported by the GET Response Body on this resource

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Data type | P | Cardinality | Response  codes | Description |
| NiddAuthorizationInfo | M | 1 | 200 OK | Upon success, a response body containing NIDD Authorization Info shall be returned. |
| NOTE: In addition, common data structures as listed in table 5.5-1 are supported. | | | | |

##### 5.2.45.3.4 PATCH

This method is used to modify the NIDD active authorizations in the UDR.

This method shall support the URI query parameters specified in table 5.2.45.3.4-1.

Table 5.2.45.3.4-1: URI query parameters supported by the PATCH method on this resource

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Name | Data type | P | Cardinality | Description |
| supported-features | SupportedFeatures | O | 0..1 | see 3GPP TS 29.500 [8] clause 6.6 |

This method shall support the request data structures specified in table 5.2.45.3.2-2 and the response data structures, and response codes specified in table 5.2.45.3.4-3.

Table 5.2.45.3.4-2: Data structures supported by the PATCH Request Body on this resource

|  |  |  |  |
| --- | --- | --- | --- |
| Data type | P | Cardinality | Description |
| array(PatchItem) | M | 1..N | Contains the delta data to the provisioned parameter data |

Table 5.2.45.3.4-3: Data structures supported by the PATCH Response Body on this resource

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Data type | P | Cardinality | Response  codes | Description |
| n/a |  |  | 204 No Content | Upon successful modification there is no body in the response message. (NOTE 2) |
| PatchResult | M | 1 | 200 OK | Upon success, the execution report is returned. (NOTE 2) |
| ProblemDetails | O | 0..1 | 403 Forbidden | If one or more attributes are not allowed to be modified according to e.g. policy or local configuration, then the invalidParams attribute shall contain the JSON pointers of attributes which are not allowed to be modified, and the cause attribute shall be set to "MODIFICATION\_NOT\_ALLOWED", see 3GPP TS 29.500 [8] table 5.2.7.2-1. |
| NOTE 1: In addition common data structures as listed in table 5.5-1 are supported.  NOTE 2: If all the modification instructions in the PATCH request have been implemented, the UDR shall respond with 204 No Content response; if some of the modification instructions in the PATCH request have been discarded, and the NF service consumer has included in the supported-feature query parameter the "PatchReport" feature number, the UDR shall respond with PatchResult. | | | | |

### 5.2.46 Resource: 5MBSSubscriptionData

#### 5.2.46.1 Description

This resource represents the subscribed 5MBS Data for a UE. SMF queries this data from UDM.

#### 5.2.46.2 Resource Definition

Resource URI: {apiRoot}/nudr-dr/<apiVersion>/subscription-data/{ueId}/5mbs-data

This resource shall support the resource URI variables defined in table 5.2.46.2-1.

Table 5.2.46.2-1: Resource URI variables for this resource

|  |  |
| --- | --- |
| Name | Definition |
| apiRoot | See 3GPP TS 29.504 [2] clause 6.1.1 |
| ueId | Represents the Subscription Identifier SUPI (see 3GPP TS 23.501 [4] clause 5.9.2)  pattern: See pattern of type VarUeId 3GPP TS 29.571 [3] |

#### 5.2.46.3 Resource Standard Methods

##### 5.2.46.3.1 GET

This method shall support the URI query parameters specified in table 5.2.46.3.1-1.

Table 5.2.46.3.1-1: URI query parameters supported by the GET method on this resource

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Name | Data type | P | Cardinality | Description |
| supported-features | SupportedFeatures | O | 0..1 | see 3GPP TS 29.500 [8] clause 6.6 |

This method shall support the request data structures specified in table 5.2.46.3.1-2 and the response data structures and response codes specified in table 5.2.46.3.1-3.

Table 5.2.46.3.1-2: Data structures supported by the GET Request Body on this resource

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

Table 5.2.46.3.1-3: Data structures supported by the POST Response Body on this resource

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Data type | P | Cardinality | Response  codes | Description |
| MbsSubscriptionData | M | 1 | 200 OK | Upon success, a response body containing the 5MBS Subscription Data shall be returned. |
| NOTE: In addition common data structures as listed in table 5.5-1 are supported. | | | | |

### 5.2.47 Resource: UeSubscriptionData

#### 5.2.47.1 Description

This resource represents the subscription data for a UE ID.

This resource is modelled with the Document resource archetype (see clause C.1 of 3GPP TS 29.501 [7]).

#### 5.2.47.2 Resource Definition

Resource URI: {apiRoot}/nudr-dr/<apiVersion>/subscription-data/{ueId}

This resource shall support the resource URI variables defined in table 5.2.47.2-1.

Table 5.2.47.2-1: Resource URI variables for this resource

|  |  |
| --- | --- |
| Name | Definition |
| apiRoot | See 3GPP TS 29.504 [2] clause 6.1.1 |
| ueId | Represents the Subscription Identifier SUPI or GPSI (see 3GPP TS 23.501 [4] clause 5.9.2)  pattern: See pattern of type VarUeId in 3GPP TS 29.571 [3] |

#### 5.2.47.3 Resource Standard Methods

##### 5.2.47.3.1 GET

When the NF service consumer (e.g. UDM) and the UDR both support the UESubDataSetRetrieve feature (see clause 6.1.8 of 3GPP TS 29.504 [2]), then NF service consumer may send a GET method towards the UE subscription data resource URI (…/subscription-data/{ueId}) to retrieve the provisioned data sets of the UE subscription data sets.

When the NF service consumer (e.g. UDM) and the UDR both also support the UESubDataSetRetrieveExt feature (see clause 6.1.8 of 3GPP TS 29.504 [2]) in addition to the UESubDataSetRetrieve feature, then NF service consumer may send a GET method towards the UE subscription data resource URI (…/subscription-data/{ueId}) to retrieve the provisioned data sets and/or context data sets of the UE subscription data sets.

This method shall support the URI query parameters specified in table 5.2.47.3.1-1.

Table 5.2.47.3.1-1: URI query parameters supported by the GET method on this resource

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Name | Data type | P | Cardinality | Description |
| dataset-names | array(UeSubscribedDataSetName) | M | 1..N | This IE shall contain the names of data sets to the retrieved. |
| serving-plmn | PlmnId | C | 0..1 | This IE shall be present when at least one of the following serving PLMN specific data sets are indicated in the dataset-names IE:  - AM  - SMF\_SEL  - SMS\_SUB  - SM  - TRACE  - SMS\_MNG  - LCS\_BCA |
| adjacent-plmns | array(PlmnId) | O | 1..N | PLMN identities of PLMNs adjacent to the PLMN serving the UE. If present the GET response may contain adjacentPlmnRestrictions for the indicated PLMNs.  May be present if dataset-names contains Access And Mobility Subscription Data |
| single-nssai | Snssai | O | 0..1 | When present without Slice Differentiator (sd), all slices identified by the given Slice/Service Type (sst) and any sd value (if any) shall be considered matching the query parameter.  May be present if dataset-names contains Session Management Subscription Data |
| dnn | Dnn | O | 0..1 | May be present if dataset-names contains Session Management Subscription Data |
| ext-group-ids | array(ExtGroupId) | O | 1..N | If included, this IE Contain a list of external VN group identifiers for which the profiles are retrieved.  May be present if dataset-names contains Parameter Provisioning Profile Data |
| uc-purpose | UcPurpose | O | 0..1 | Represents the user consent purpose.  pattern: See pattern of type UcPurpose in 3GPP TS 29.503 [6]  May be present if dataset-names contains User Consent Data |

This method shall support the request data structures specified in table 5.2.47.3.1-2 and the response data structures and response codes specified in table 5.2.47.3.1-3.

Table 5.2.47.3.1-2: Data structures supported by the GET Request Body on this resource

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

Table 5.2.47.3.1-3: Data structures supported by the GET Response Body on this resource

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Data type | P | Cardinality | Response  codes | Description |
| UeSubscribedDataSets | M | 1 | 200 OK | Upon success, a response body containing the requested data sets shall be returned. |
| NOTE: In addition common data structures as listed in table 5.5-1 are supported. | | | | |

Table 5.2.47.3.1-4: Headers supported by the 200 response code on this resource

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Name | Data type | P | Cardinality | Description |
| 3gpp-Sbi-Etags | string | O | 0..1 | See 3GPP TS 29.504 [2] |

### 5.2.48 Resource: ServiceSpecificAuthorizationData

#### 5.2.48.1 Description

This resource represents a GPSI's subscribed AuthorizationData for a specific service. It is queried by the UDM during Authorization Data Retrieval for a specific service and Service Specific Authorization Data Update Notification.

This resource is modelled with the Document resource archetype (see clause C.1 of 3GPP TS 29.501 [7]).

#### 5.2.48.2 Resource Definition

Resource URI: {apiRoot}/nudr-dr/<apiVersion>/subscription-data/{ueId}/service-specific-authorization-data/{serviceType}

This resource shall support the resource URI variables defined in table 5.2.48.2-1.

Table 5.2.48.2-1: Resource URI variables for this resource

|  |  |
| --- | --- |
| Name | Definition |
| apiRoot | See 3GPP TS 29.504 [2] clause 6.1.1 |
| ueId | Represents the Generic Public Subscription Identifier (see 3GPP TS 23.501 [4] clause 5.9.8)  pattern: '^(msisdn-[0-9]{5,15}|.+|extid-[^@]+@[^@]+|extgroupid-[^@]+@[^@]+)$' |
| serviceType | In this release the only defined Service Type is "AF\_GUIDANCE\_FOR\_URSP" |

#### 5.2.48.3 Resource Standard Methods

##### 5.2.48.3.1 GET

This method shall support the URI query parameters specified in table 5.2.48.3.1-1.

Table 5.2.48.3.1-1: URI query parameters supported by the GET method on this resource

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Name | Data type | P | Cardinality | Description |
| single-nssai | Snssai | O | 0..1 | When present without Slice Differentiator (sd), all slices identified by the given Slice/Service Type (sst) and any sd value (if any) shall be considered matching the query parameter. |
| dnn | Dnn | O | 0..1 |  |
| mtc-provider-information | MtcProviderInformation | O | 0..1 |  |
| af-id | string | O | 0..1 | When present, indicates the string identifying the originating AF. |

This method shall support the request data structures specified in table 5.2.48.3.1-2 and the response data structures and response codes specified in table 5.2.48.3.1-3.

Table 5.2.48.3.1-2: Data structures supported by the GET Request Body on this resource

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

Table 5.2.48.3.1-3: Data structures supported by the GET Response Body on this resource

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Data type | P | Cardinality | Response  codes | Description |
| AuthorizationData | M | 1 | 200 OK | Upon success, a response body containing the Authorization Data shall be returned. |
| ProblemDetails | O | 1 | 404 Not Found | The "cause" attribute may be used to indicate one of the following application errors:  - USER\_NOT\_FOUND  - DATA\_NOT\_FOUND |
| ProblemDetails | O | 0..1 | 403 Forbidden | The "cause" attribute may be used to indicate one of the following application errors:  - DNN\_NOT\_ALLOWED  - MTC\_PROVIDER\_NOT\_ALLOWED  - AF\_INSTANCE\_NOT\_ALLOWED  - SNSSAI\_NOT\_ALLOWED |
| NOTE: In addition, common data structures as listed in table 5.5-1 are supported. | | | | |

### 5.2.49 Resource: SpecificServiceAuthorizations

#### 5.2.49.1 Description

This resource represents information relevant to authorizations for specific services. After successful authorization, the UDM needs to store within the UDR related information (e.g. authUpdateCallbackUri), so that it is possible to notify the UDM consumer later on if something has changed affecting these authorizations.

This resource is modelled with the Document resource archetype (see clause C.1 of 3GPP TS 29.501 [7]).

#### 5.2.49.2 Resource Definition

Resource URI: {apiRoot}/nudr-dr/<apiVersion>/subscription-data/{ueId}/context-data/service-specific-authorizations/{serviceType}

This resource shall support the resource URI variables defined in table 5.2.49.2-1.

Table 5.2.49.2-1: Resource URI variables for this resource

|  |  |
| --- | --- |
| Name | Definition |
| apiRoot | See 3GPP TS 29.504 [2] clause 6.1.1 |
| ueId | Represents the Subscription Identifier SUPI or GPSI (see 3GPP TS 23.501 [4] clause 5.9.2)  pattern: See pattern of type VarUeId in 3GPP TS 29.571 [3] |
| serviceType | In this release the only defined Service Type is "AF\_GUIDANCE\_FOR\_URSP" |

#### 5.2.49.3 Resource Standard Methods

##### 5.2.49.3.1 PUT

This method shall support the URI query parameters specified in table 5.2.49.3.1-1.

Table 5.2.49.3.1-1: URI query parameters supported by the PUT method on this resource

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

This method shall support the request data structures specified in table 5.2.49.3.1-2 and the response data structure, and response codes specified in table 5.2.49.3.1-3.

Table 5.2.49.3.1-2: Data structures supported by the PUT Request Body on this resource

|  |  |  |  |
| --- | --- | --- | --- |
| Data type | P | Cardinality | Description |
| ServiceSpecificAuthorizationInfo | M | 1 | Specific Service Authorization Data |

Table 5.2.49.3.1-3: Data structures supported by the PUT Response Body on this resource

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Data type | P | Cardinality | Response  codes | Description |
| n/a |  |  | 204 No Content | Upon successful update of this resource, an empty response body shall be returned. |
| ServiceSpecificAuthorizationInfo | M | 1 | 201 Created | Upon successful creation of this resource, a representation of the created resource containing an array of the AuthorizationData for the specific service as allocated by the UDR shall be returned. |
| NOTE: In addition, common data structures as listed in table 5.5-1 are supported. | | | | |

##### 5.2.49.3.2 DELETE

This method shall support the URI query parameters specified in table 5.2.49.3.2-1.

Table 5.2.49.3.2-1: URI query parameters supported by the DELETE method on this resource

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

This method shall support the request data structures specified in table 5.2.49.3.2-2 and the response data structure, and response codes specified in table 5.2.49.3.2-3.

Table 5.2.49.3.2-2: Data structures supported by the DELETE Request Body on this resource

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

Table 5.2.49.3.2-3: Data structures supported by the DELETE Response Body on this resource

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Data type | P | Cardinality | Response  codes | Description |
| n/a |  |  | 204 No Content | Upon success, an empty response body shall be returned. |
| NOTE: In addition, common data structures as listed in table 5.5-1 are supported. | | | | |

##### 5.2.49.3.3 GET

This method shall support the URI query parameters specified in table 5.2.49.3.3-1.

Table 5.2.49.3.3-1: URI query parameters supported by the GET method on this resource

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

This method shall support the request data structures specified in table 5.2.49.3.3-2 and the response data structure and response codes specified in table 5.2.49.3.3-3.

Table 5.2.49.3.3-2: Data structures supported by the GET Request Body on this resource

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

Table 5.2.49.3.3-3: Data structures supported by the GET Response Body on this resource

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Data type | P | Cardinality | Response  codes | Description |
| ServiceSpecificAuthorizationInfo | M | 1 | 200 OK | Upon success, a response body containing the authorization info for the specific service shall be returned. |
| NOTE: In addition, common data structures as listed in table 5.2.7.1-1 of 3GPP TS 29.500 [8] are supported. | | | | |

##### 5.2.49.3.4 PATCH

This method is used to modify the Service Specific active authorizations in the UDR.

This method shall support the URI query parameters specified in table 5.2.49.3.4-1.

Table 5.2.49.3.4-1: URI query parameters supported by the PATCH method on this resource

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Name | Data type | P | Cardinality | Description |
| supported-features | SupportedFeatures | O | 0..1 | see 3GPP TS 29.500 [8] clause 6.6 |

This method shall support the request data structures specified in table 5.2.49.3.2-2 and the response data structures, and response codes specified in table 5.2.49.3.4-3.

Table 5.2.49.3.4-2: Data structures supported by the PATCH Request Body on this resource

|  |  |  |  |
| --- | --- | --- | --- |
| Data type | P | Cardinality | Description |
| array(PatchItem) | M | 1..N | Contains the delta data to the provisioned parameter data |

Table 5.2.49.3.4-3: Data structures supported by the PATCH Response Body on this resource

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Data type | P | Cardinality | Response  codes | Description |
| n/a |  |  | 204 No Content | Upon successful modification there is no body in the response message. (NOTE 2) |
| PatchResult | M | 1 | 200 OK | Upon success, the execution report is returned. (NOTE 2) |
| ProblemDetails | O | 0..1 | 403 Forbidden | If one or more attributes are not allowed to be modified according to e.g. policy or local configuration, then the invalidParams attribute shall contain the JSON pointers of attributes which are not allowed to be modified, and the cause attribute shall be set to "MODIFICATION\_NOT\_ALLOWED", see 3GPP TS 29.500 [8] table 5.2.7.2-1. |
| NOTE 1: In addition common data structures as listed in table 5.2.7.1-1 of 3GPP TS 29.500 [8] are supported.  NOTE 2: If all the modification instructions in the PATCH request have been implemented, the UDR shall respond with 204 No Content response; if some of the modification instructions in the PATCH request have been discarded, and the NF service consumer has included in the supported-feature query parameter the "PatchReport" feature number, the UDR shall respond with PatchResult. | | | | |

### 5.2.50 Resource: RoamingInfo

#### 5.2.50.1 Description

This resource is used to represent the last 5GC/EPC common Roaming Information in the 3GPP access to be stored in the UDR by the UDM.

This resource is modelled with the Document resource archetype (see clause C.1 of 3GPP TS 29.501 [7]).

#### 5.2.50.2 Resource Definition

Resource URI: {apiRoot}/nudr-dr/<apiVersion>/subscription-data/{ueId}/context-data/roaming-information

This resource shall support the resource URI variables defined in table 5.2.50.2-1.

Table 5.2.50.2-1: Resource URI variables for this resource

|  |  |
| --- | --- |
| Name | Definition |
| apiRoot | See 3GPP TS 29.504 [2] clause 6.1.1 |
| ueId | Represents the Subscription Identifier SUPI or GPSI (see 3GPP TS 23.501 [4] clause 5.9.2)   pattern: See pattern of type VarUeId 3GPP TS 29.571 [3] |

#### 5.2.50.3 Resource Standard Methods

##### 5.2.50.3.1 PUT

This method shall support the URI query parameters specified in table 5.2.50.3.1-1.

Table 5.2.50.3.1-1: URI query parameters supported by the PUT method on this resource

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

This method shall support the request data structures specified in table 5.2.50.3.1-2 and the response data structures and response codes specified in table 5.2.50.3.1-3.

Table 5.2.50.3.1-2: Data structures supported by the PUT Request Body on this resource

|  |  |  |  |
| --- | --- | --- | --- |
| Data type | P | Cardinality | Description |
| RoamingInfoUpdate | M | 1 | Contains the last 5GC/EPC common Roaming Information in the 3GPP access. |

Table 5.2.50.3.1-3: Data structures supported by the PUT Response Body on this resource

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Data type | P | Cardinality | Response  codes | Description |
| n/a |  |  | 204 No Content | Upon success, an empty response body shall be returned |
| RoamingInfoUpdate | M | 1 | 201 Created | Upon success, a response body containing a representation of the created Roaming Information resource shall be returned. |
| NOTE: In addition common data structures as listed in table 5.5-1 are supported. | | | | |

##### 5.2.50.3.2 GET

This method shall support the URI query parameters specified in table 5.2.50.3.2-1.

Table 5.2.50.3.2-1: URI query parameters supported by the GET method on this resource

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

This method shall support the request data structures specified in table 5.2.50.3.2-2 and the response data structures and response codes specified in table 5.2.50.3.2-3.

Table 5.2.50.3.2-2: Data structures supported by the GET Request Body on this resource

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

Table 5.2.50.3.2-3: Data structures supported by the GET Response Body on this resource

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Data type | P | Cardinality | Response  codes | Description |
| RoamingInfoUpdate | M | 1 | 200 OK | Upon success, a response body containing the last 5GC/EPC common Roaming Information in the 3GPP access shall be returned. |
| NOTE: In addition common data structures as listed in table 5.5-1 are supported. | | | | |

### 5.2.51 Resource: UserConsentData

#### 5.2.51.1 Description

This resource represents UE's subscribed User Consent Data for a UE identifier. It is queried by the UDM during User Consent Data Retrieval.

This resource is modelled with the Document resource archetype (see clause C.1 of 3GPP TS 29.501 [7]).

#### 5.2.51.2 Resource Definition

Resource URI: {apiRoot}/nudr-dr/<apiVersion>/subscription-data/{ueId}/uc-data

This resource shall support the resource URI variables defined in table 5.2.51.2-1.

Table 5.2.51.2-1: Resource URI variables for this resource

|  |  |
| --- | --- |
| Name | Definition |
| apiRoot | See 3GPP TS 29.504 [2] clause 6.1.1 |
| ueId | Represents the Subscription Permanent Identifier (see 3GPP TS 23.501 [4] clause 5.9.2).  pattern: See pattern of type VarUeId in 3GPP TS 29.571 [3] |

#### 5.2.51.3 Resource Standard Methods

##### 5.2.51.3.1 GET

This method shall support the URI query parameters specified in table 5.2.51.3.1-1.

Table 5.2.51.3.1-1: URI query parameters supported by the GET method on this resource

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Name | Data type | P | Cardinality | Description |
| supported-features | SupportedFeatures | O | 0..1 | see 3GPP TS 29.500 [8] clause 6.6 |
| uc-purpose | UcPurpose | O | 0..1 | Represents the user consent purpose.  pattern: See pattern of type UcPurpose in 3GPP TS 29.503 [6] |

This method shall support the request data structures specified in table 5.2.51.3.1-2 and the response data structures and response codes specified in table 5.2.51.3.1-3.

Table 5.2.51.3.1-2: Data structures supported by the GET Request Body on this resource

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

Table 5.2.51.3.1-3: Data structures supported by the GET Response Body on this resource

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Data type | P | Cardinality | Response  codes | Description |
| UcSubscriptionData | M | 1 | 200 OK | Upon success, a response body containing UE's subscribed User Consent Data. |
| NOTE: In addition, common data structures as listed in table 5.5-1 are supported. | | | | |

### 5.2.52 Resource: PeiInfo

#### 5.2.52.1 Description

This resource is used to represent the PEI Update Information of the 5GC/EPC domains to be stored in the UDR by the UDM.

This resource is modelled with the Document resource archetype (see clause C.1 of 3GPP TS 29.501 [7]).

#### 5.2.52.2 Resource Definition

Resource URI: {apiRoot}/nudr-dr/<apiVersion>/subscription-data/{ueId}/context-data/pei-info

This resource shall support the resource URI variables defined in table 5.2.52.2-1.

Table 5.2.52.2-1: Resource URI variables for this resource

|  |  |
| --- | --- |
| Name | Definition |
| apiRoot | See 3GPP TS 29.504 [2] clause 6.1.1 |
| ueId | Represents the Subscription Identifier SUPI or GPSI (see 3GPP TS 23.501 [4] clause 5.9.2)   pattern: See pattern of type VarUeId 3GPP TS 29.571 [3] |

#### 5.2.52.3 Resource Standard Methods

##### 5.2.52.3.1 PUT

This method shall support the URI query parameters specified in table 5.2.52.3.1-1.

Table 5.2.52.3.1-1: URI query parameters supported by the PUT method on this resource

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

This method shall support the request data structures specified in table 5.2.52.3.1-2 and the response data structures and response codes specified in table 5.2.52.3.1-3.

Table 5.2.52.3.1-2: Data structures supported by the PUT Request Body on this resource

|  |  |  |  |
| --- | --- | --- | --- |
| Data type | P | Cardinality | Description |
| PeiUpdateInfo | M | 1 | The PEI Update Information. |

The UDM shall create or update this resource when the PEI is received from the AMF (3gpp access or non-3gpp access) or from the HSS.

Table 5.2.52.3.1-3: Data structures supported by the PUT Response Body on this resource

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Data type | P | Cardinality | Response  codes | Description |
| n/a |  |  | 204 No Content | Upon success, an empty response body shall be returned |
| PeiUpdateInfo | M | 1 | 201 Created | Upon success, a response body containing a representation of the resource of the created PEI Update Information shall be returned. |
| NOTE: In addition, common data structures as listed in table 5.5-1 are supported. | | | | |

##### 5.2.52.3.2 GET

This method shall support the URI query parameters specified in table 5.2.52.3.2-1.

Table 5.2.52.3.2-1: URI query parameters supported by the GET method on this resource

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

This method shall support the request data structures specified in table 5.2.52.3.2-2 and the response data structures and response codes specified in table 5.2.52.3.2-3.

Table 5.2.52.3.2-2: Data structures supported by the GET Request Body on this resource

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

Table 5.2.52.3.2-3: Data structures supported by the GET Response Body on this resource

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Data type | P | Cardinality | Response  codes | Description |
| PeiUpdateInfo | M | 1 | 200 OK | Upon success, a response body containing the PEI Update Information shall be returned. |
| NOTE: In addition, common data structures as listed in table 5.5-1 are supported. | | | | |

### 5.2.53 Resource: TimeSyncSubscriptionData

#### 5.2.53.1 Description

This resource represents the subscribed Time Synchronization Subscription Data for a UE. This data is queried from UDM.

#### 5.2.53.2 Resource Definition

Resource URI: {apiRoot}/nudr-dr/<apiVersion>/subscription-data/{ueId}/time-sync-data

This resource shall support the resource URI variables defined in table 5.2.53.2-1.

Table 5.2.53.2-1: Resource URI variables for this resource

|  |  |
| --- | --- |
| Name | Definition |
| apiRoot | See 3GPP TS 29.504 [2] clause 6.1.1 |
| ueId | Represents the Subscription Identifier SUPI (see 3GPP TS 23.501 [4] clause 5.9.2)  pattern: See pattern of type VarUeId 3GPP TS 29.571 [3] |

#### 5.2.53.3 Resource Standard Methods

##### 5.2.53.3.1 GET

This method shall support the URI query parameters specified in table 5.2.53.3.1-1.

Table 5.2.53.3.1-1: URI query parameters supported by the GET method on this resource

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Name | Data type | P | Cardinality | Description |
| supported-features | SupportedFeatures | O | 0..1 | see 3GPP TS 29.500 [8] clause 6.6 |

This method shall support the request data structures specified in table 5.2.53.3.1-2 and the response data structures and response codes specified in table 5.2.53.3.1-3.

Table 5.2.53.3.1-2: Data structures supported by the GET Request Body on this resource

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

Table 5.2.53.3.1-3: Data structures supported by the POST Response Body on this resource

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Data type | P | Cardinality | Response  codes | Description |
| TimeSyncSubscriptionData | M | 1 | 200 OK | Upon success, a response body containing the Time Synchronization Subscription Data shall be returned. |
| NOTE: In addition common data structures as listed in table 5.5-1 are supported. | | | | |

### 5.2.54 Resource: 5GMbsGroup

#### 5.2.54.1 Description

This resource represents the store of 5G MBS Group data.

#### 5.2.54.2 Resource Definition

Resource URI: {apiRoot}/nudr-dr/<apiVersion>/subscription-data/group-data/mbs-group-membership

This resource shall support the resource URI variables defined in table 5.2.54.2-1.

Table 5.2.54.2-1: Resource URI variables for this resource

|  |  |
| --- | --- |
| Name | Definition |
| apiRoot | See 3GPP TS 29.504 [2] clause 6.1.1 |

#### 5.2.54.3 Resource Standard Methods

##### 5.2.54.3.1 GET

This method shall support the URI query parameters specified in table 5.2.54.3.1-1.

Table 5.2.54.3.1-1: URI query parameters supported by the GET method on this resource

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Name | Data type | P | Cardinality | Description |
| gpsis | array(Gpsi) | O | 0..N | Only those group's data are retrieved of which at least one of the GPSIs is a member |

This method shall support the request data structures specified in table 5.2.54.3.1-2 and the response data structures and response codes specified in table 5.2.54.3.1-3.

Table 5.2.54.3.1-2: Data structures supported by the GET Request Body on this resource

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

Table 5.2.54.3.1-3: Data structures supported by the GET Response Body on this resource

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Data type | P | Cardinality | Response  codes | Description |
| map(MulticastMbsGroupMemb) | M | 0..N | 200 OK | Upon success, a response body containing the map (list of key-value pairs where ExtGroupId (see 3GPP TS 29.503 [6] serves as key) of MulticastMbsGroupMemb shall be returned.  If the resource does not contain any keys, the response consists of an empty JSON object (empty map). |
| NOTE: In addition, common data structures as listed in table 5.5-1 are supported. | | | | |

### 5.2.55 Resource: Individual5GmbsGroup

#### 5.2.55.1 Description

This resource represents an individual 5G MBS Group.

This resource is modelled with the Document resource archetype (see clause C.1 of 3GPP TS 29.501 [7]).

#### 5.2.55.2 Resource Definition

Resource URI: {apiRoot}/nudr-dr/<apiVersion>/subscription-data/group-data/mbs-group-membership/{externalGroupId}

This resource shall support the resource URI variables defined in table 5.2.55.2-1.

Table 5.2.55.2-1: Resource URI variables for this resource

|  |  |
| --- | --- |
| Name | Definition |
| apiRoot | See 3GPP TS 29.504 [2] clause 6.1.1 |
| externalGroupId | Represents the External Identifier of the group |

#### 5.2.55.3 Resource Standard Methods

##### 5.2.55.3.1 PUT

This method shall support the URI query parameters specified in table 5.2.55.3.1-1.

Table 5.2.55.3.1-1: URI query parameters supported by the PUT method on this resource

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

This method shall support the request data structures specified in table 5.2.55.3.1-2 and the response data structures and response codes specified in table 5.2.55.3.1-3.

Table 5.2.55.3.1-2: Data structures supported by the PUT Request Body on this resource

|  |  |  |  |
| --- | --- | --- | --- |
| Data type | P | Cardinality | Description |
| MulticastMbsGroupMemb | M | 1 | See 3GPP TS 29.503 [6] |

Table 5.2.55.3.1-3: Data structures supported by the PUT Response Body on this resource

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Data type | P | Cardinality | Response  codes | Description |
| MulticastMbsGroupMemb | M | 1 | 201 Created | Upon success, a representation of the created resource shall be returned. |
| ProblemDetails | O | 0..1 | 403 Forbidden | If the resource already exists, a response code of 403 Forbidden shall be returned. |
| NOTE: In addition common data structures as listed in table 5.5-1 are supported. | | | | |

##### 5.2.55.3.2 DELETE

This method shall support the URI query parameters specified in table 5.2.55.3.2-1.

Table 5.2.55.3.2-1: URI query parameters supported by the DELETE method on this resource

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

This method shall support the request data structures specified in table 5.2.55.3.2-2 and the response data structures and response codes specified in table 5.2.55.3.2-3.

Table 5.2.55.3.2-2: Data structures supported by the DELETE Request Body on this resource

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

Table 5.2.55.3.2-3: Data structures supported by the DELETE Response Body on this resource

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Data type | P | Cardinality | Response  codes | Description |
| n/a |  |  | 204 No Content | Upon success, an empty response body shall be returned. |
| NOTE: In addition common data structures as listed in table 5.5-1 are supported. | | | | |

##### 5.2.55.3.3 PATCH

This method shall support the URI query parameters specified in table 5.2.55.3.3-1.

Table 5.2.55.3.3-1: URI query parameters supported by the PATCH method on this resource

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Name | Data type | P | Cardinality | Description |
| supported-features | SupportedFeatures | O | 0..1 | see 3GPP TS 29.500 [8] clause 6.6 |

This method shall support the request data structures specified in table 5.2.55.3.3-2 and the response data structures and response codes specified in table 5.2.55.3.3-3.

Table 5.2.55.3.3-2: Data structures supported by the PATCH Request Body on this resource

|  |  |  |  |
| --- | --- | --- | --- |
| Data type | P | Cardinality | Description |
| array(PatchItem) | M | 1..N | Contains the delta data to the Individual 5GNvGroup |

Table 5.2.55.3.3-3: Data structures supported by the PATCH Response Body on this resource

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Data type | P | Cardinality | Response  codes | Description |
| n/a |  |  | 204 No Content | Upon successful modification, there is no body in the response message. (NOTE 2) |
| PatchResult | M | 1 | 200 OK | Upon success, the execution report is returned. (NOTE 2) |
| ProblemDetails | O | 0..1 | 404 Not Found | If the resource corresponding to the ExternalGroupId can't be found, the "cause" attribute shall be set to:  - GROUP\_IDENTIFIER\_NOT\_FOUND |
| O | 0..1 | 403 Forbidden | If one or more attributes are not allowed to be modified according to e.g. policy or local configuration, then  the invalidParams attribute shall contain the JSON pointers of attributes which are not allowed to be modified, and  the cause attribute shall be set to "MODIFICATION\_NOT\_ALLOWED", see 3GPP TS 29.500 [8] table 5.2.7.2-1 |
| NOTE 1: In addition common data structures as listed in table 5.5-1 are supported.  NOTE 2: If all the modification instructions in the PATCH request have been implemented, the UDR shall respond with 204 No Content response; if some of the modification instructions in the PATCH request have been discarded, and the NF service consumer has included in the supported-feature query parameter the "PatchReport" feature number, the UDR shall respond with PatchResult. | | | | |

##### 5.2.55.3.4 GET

This method shall support the URI query parameters specified in table 5.2.55.3.4-1.

Table 5.2.55.3.4-1: URI query parameters supported by the GET method on this resource

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Name | Data type | P | Cardinality | Description |
| supported-features | SupportedFeatures | O | 0..1 | see 3GPP TS 29.500 [8] clause 6.6 |

This method shall support the request data structures specified in table 5.2.55.3.4-2 and the response data structures and response codes specified in table 5.2.55.3.4-3.

Table 5.2.55.3.4-2: Data structures supported by the GET Request Body on this resource

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

Table 5.2.55.3.4-3: Data structures supported by the GET Response Body on this resource

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Data type | P | Cardinality | Response  codes | Description |
| MulticastMbsGroupMemb | M | 1 | 200 OK | Upon success, a response body containing the group configuration of the individual 5G MBS Group shall be returned. |
| NOTE: In addition, common data structures as listed in table 5.5-1 are supported. | | | | |

### 5.2.56 Resource: 5GMbsGroupsInternal

#### 5.2.56.1 Description

This resource represents a read-only view of the collection resource of 5G MBS Group data, so it can be queried based on the Internal Group Id from NF Service Consumers having such Id as the only way to identify a group (e.g. PCF).

#### 5.2.56.2 Resource Definition

Resource URI: {apiRoot}/nudr-dr/<apiVersion>/subscription-data/group-data/mbs-group-membership/internal

This resource shall support the resource URI variables defined in table 5.2.56.2-1.

Table 5.2.56.2-1: Resource URI variables for this resource

|  |  |
| --- | --- |
| Name | Definition |
| apiRoot | See 3GPP TS 29.504 [2] clause 6.1.1 |

#### 5.2.56.3 Resource Standard Methods

##### 5.2.56.3.1 GET

This method shall support the URI query parameters specified in table 5.2.56.3.1-1.

Table 5.2.56.3.1-1: URI query parameters supported by the GET method on this resource

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Name | Data type | P | Cardinality | Description |
| internal-group-ids | array(GroupId) | M | 1..N | Return those 5G MBS groups whose Internal Group ID corresponds with any of the Group IDs in this list. |

This method shall support the request data structures specified in table 5.2.56.3.1-2 and the response data structures and response codes specified in table 5.2.56.3.1-3.

Table 5.2.56.3.1-2: Data structures supported by the GET Request Body on this resource

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

Table 5.2.56.3.1-3: Data structures supported by the GET Response Body on this resource

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Data type | P | Cardinality | Response  codes | Description |
| map(MulticastMbsGroupMemb) | M | 0..N | 200 OK | Upon success, a response body containing the map (list of key-value pairs where ExtGroupId (see 3GPP TS 29.503 [6] serves as key) of MulticastMbsGroupMemb shall be returned.  If the resource does not contain any keys, the response consists of an empty JSON object (empty map). |

### 5.2.57 Resource: Pp5gMbsGroupProfileData

#### 5.2.57.1 Description

This resource represents the Parameter Provision Profile Data for the 5G MBS Groups. It is queried by the UDM.

#### 5.2.57.2 Resource Definition

Resource URI: {apiRoot}/nudr-dr/<apiVersion>/subscription-data/group-data/mbs-group-membership/pp-profile-data

This resource shall support the resource URI variables defined in table 5.2.57.2-1.

Table 5.2.57.2-1: Resource URI variables for this resource

|  |  |
| --- | --- |
| Name | Definition |
| apiRoot | See clause 6.1.1 |

#### 5.2.57.3 Resource Standard Methods

##### 5.2.57.3.1 GET

This method shall support the URI query parameters specified in table 5.2.57.3.1-1.

Table 5.2.57.3.1-1: URI query parameters supported by the GET method on this resource

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Name | Data type | P | Cardinality | Description |
| ext-group-ids | array(ExtGroupId) | O | 1..N | If included, this IE Contain a list of external MBS group identifiers for which the profiles are retrieved. |
| supported-features | SupportedFeatures | O | 0..1 | see 3GPP TS 29.500 [8] clause 6.6 |

This method shall support the request data structures specified in table 5.2.57.3.1-2 and the response data structures and response codes specified in table 5.2.57.3.1-3.

Table 5.2.57.3.1-2: Data structures supported by the GET Request Body on this resource

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

Table 5.2.57.3.1-3: Data structures supported by the GET Response Body on this resource

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Data type | P | Cardinality | Response  codes | Description |
| Pp5gMbsGroupProfileData | M | 1 | 200 OK | Upon success, a response body containing the Parameter Provision Profile for 5G MBS Groups. |
| NOTE: In addition, common data structures as listed in table 5.5-1 are supported. | | | | |

### 5.2.58 Resource: UeUpdateConfirmation

#### 5.2.58.1 Description

This resource represents the complete UE Update Confirmation Information.

This resource is modelled with the Document resource archetype (see clause C.1 of 3GPP TS 29.501 [7]).

#### 5.2.58.2 Resource Definition

Resource URI: {apiRoot}/nudr-dr/<apiVersion>/subscription-data/{ueId}/ue-update-confirmation-data

This resource shall support the resource URI variables defined in table 5.2.58.2-1.

Table 5.2.58.2-1: Resource URI variables for this resource

|  |  |
| --- | --- |
| Name | Definition |
| apiRoot | See 3GPP TS 29.504 [2] clause 6.1.1 |
| ueId | Represents the Subscription Identifier SUPI or GPSI (see 3GPP TS 23.501 [4] clause 5.9.2)  pattern: See pattern of type VarUeId 3GPP TS 29.571 [3] |

#### 5.2.58.3 Resource Standard Methods

##### 5.2.58.3.1 GET

This method shall support the URI query parameters specified in table 5.2.58.3.1-1.

Table 5.2.58.3.1-1: URI query parameters supported by the GET method on this resource

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Name | Data type | P | Cardinality | Description |
| supported-features | SupportedFeatures | O | 0..1 | see 3GPP TS 29.500 [8] clause 6.6 |

This method shall support the request data structures specified in table 5.2.58.3.1-2 and the response data structures and response codes specified in table 5.2.58.3.1-3.

Table 5.2.58.3.1-2: Data structures supported by the GET Request Body on this resource

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

Table 5.2.58.3.1-3: Data structures supported by the GET Response Body on this resource

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Data type | P | Cardinality | Response  codes | Description |
| UeUpdConfData | M | 1 | 200 OK | Upon success, a response body containing the UE Update Confirmation Data shall be returned. |
| NOTE: In addition common data structures as listed in table 5.5-1 are supported. | | | | |

### 5.2.59 Resource: LcsSubscriptionData

#### 5.2.59.1 Description

This resource represents the subscribed LcsSubscriptionData for a SUPI. It is queried by the AMF or H-GMLC via the UDM after registering.

This resource is modelled with the Document resource archetype (see clause C.1 of 3GPP TS 29.501 [7]).

#### 5.2.59.2 Resource Definition

Resource URI: {apiRoot}/nudr-dr/<apiVersion>/subscription-data/{ueId}/lcs-susbscription-data

This resource shall support the resource URI variables defined in table 5.2.59.2-1.

Table 5.2.59.2-1: Resource URI variables for this resource

|  |  |
| --- | --- |
| Name | Definition |
| apiRoot | See 3GPP TS 29.504 [2] clause 6.1.1 |
| ueId | Represents the Subscription Identifier SUPI or GPSI (see 3GPP TS 23.501 [4] clause 5.9.2)  See pattern of type VarUeId in 3GPP TS 29.571 [3] |

#### 5.2.59.3 Resource Standard Methods

##### 5.2.59.3.1 GET

This method shall support the URI query parameters specified in table 5.2.59.3.1-1.

Table 5.2.59.3.1-1: URI query parameters supported by the GET method on this resource

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Name | Data type | P | Cardinality | Description |
| fields | array(string) | C | 1..N | When the NF consumer only retrieves a subset of the resource, the " fields " query parameter shall be included. The " fields " query parameter contains the pointers of the attribute(s) to be retrieved. |
| supported-features | SupportedFeatures | O | 0..1 | see 3GPP TS 29.500 [8] clause 6.6 |

This method shall support the request data structures specified in table 5.2.59.3.1-2 and the response data structures and response codes specified in table 5.2.59.3.1-3.

Table 5.2.59.3.1-2: Data structures supported by the GET Request Body on this resource

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

Table 5.2.59.3.1-3: Data structures supported by the GET Response Body on this resource

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Data type | P | Cardinality | Response  codes | Description |
| LcsSubscriptionData | M | 1 | 200 OK | Upon success, a response body containing the LCS Mobile Originated Subscription Data shall be returned. |
| NOTE: In addition common data structures as listed in table 5.5-1 are supported. | | | | |

### 5.2.60 Resource: RangingSlPosSubscriptionData

#### 5.2.60.1 Description

This resource represents UE's subscribed Ranging and Sidelink Positioning Service Data for a UE identifier. It is queried by the UDM during Ranging and Sidelink Positioning Subscription Data Data Retrieval.

This resource is modelled with the Document resource archetype (see clause C.1 of 3GPP TS 29.501 [7]).

#### 5.2.60.2 Resource Definition

Resource URI: {apiRoot}/nudr-dr/<apiVersion>/subscription-data/{ueId}/ranging-slpos-data

This resource shall support the resource URI variables defined in table 5.2.60.2-1.

Table 5.2.60.2-1: Resource URI variables for this resource

|  |  |
| --- | --- |
| Name | Definition |
| apiRoot | See 3GPP TS 29.504 [2] clause 6.1.1 |
| ueId | Represents the Subscription Permanent Identifier (see 3GPP TS 23.501 [4] clause 5.9.2) or the Generic Public Subscription Identifier (see 3GPP TS 23.501 [4] clause 5.9.8).  pattern: See pattern of type VarUeId in 3GPP TS 29.571 [3] |

#### 5.2.60.3 Resource Standard Methods

##### 5.2.60.3.1 GET

This method shall support the URI query parameters specified in table 5.2.60.3.1-1.

Table 5.2.60.3.1-1: URI query parameters supported by the GET method on this resource

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Name | Data type | P | Cardinality | Description |
| supported-features | SupportedFeatures | O | 0..1 | see 3GPP TS 29.500 [8] clause 6.6 |

This method shall support the request data structures specified in table 5.2.60.3.1-2 and the response data structures and response codes specified in table 5.2.60.3.1-3.

Table 5.2.60.3.1-2: Data structures supported by the GET Request Body on this resource

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

Table 5.2.60.3.1-3: Data structures supported by the GET Response Body on this resource

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Data type | P | Cardinality | Response  codes | Description |
| RangingSlPosSubscriptionData | M | 1 | 200 OK | Upon success, a response body containing UE's subscribed Ranging and Sidelink Positioning Service Data. |
| NOTE: In addition, common data structures as listed in table 5.5-1 are supported. | | | | |

### 5.2.61 Resource: A2xSubscriptionData

#### 5.2.61.1 Description

This resource represents UE's subscribed A2X Data for a UE identifier. It is queried by the UDM during A2X Subscription Data Retrieval.

This resource is modelled with the Document resource archetype (see clause C.1 of 3GPP TS 29.501 [7]).

#### 5.2.61.2 Resource Definition

Resource URI: {apiRoot}/nudr-dr/<apiVersion>/subscription-data/{ueId}/a2x-data

This resource shall support the resource URI variables defined in table 5.2.61.2-1.

Table 5.2.61.2-1: Resource URI variables for this resource

|  |  |
| --- | --- |
| **Name** | **Definition** |
| apiRoot | See 3GPP TS 29.504 [2] clause 6.1.1 |
| ueId | Represents the Subscription Permanent Identifier (see 3GPP TS 23.501 [4] clause 5.9.2) or the Generic Public Subscription Identifier (see 3GPP TS 23.501 [4] clause 5.9.8).  pattern: See pattern of type VarUeId in 3GPP TS 29.571 [3] |

#### 5.2.61.3 Resource Standard Methods

5.2.61.3.1 GET

This method shall support the URI query parameters specified in table 5.2.61.3.1-1.

Table 5.2.61.3.1-1: URI query parameters supported by the GET method on this resource

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Name** | **Data type** | **P** | **Cardinality** | **Description** |
| supported-features | SupportedFeatures | O | 0..1 | see 3GPP TS 29.500 [8] clause 6.6 |

This method shall support the request data structures specified in table 5.2.61.3.1-2 and the response data structures and response codes specified in table 5.2.61.3.1-3.

Table 5.2.61.3.1-2: Data structures supported by the GET Request Body on this resource

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

Table 5.2.61.3.1-3: Data structures supported by the GET Response Body on this resource

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Data type** | **P** | **Cardinality** | **Response**  **codes** | **Description** |
| A2xSubscriptionData | M | 1 | 200 OK | Upon success, a response body containing UE's subscribed A2X Data. |
| NOTE: In addition, common data structures as listed in table 5.5-1 are supported. | | | | |

## 5.3 Notifications

### 5.3.1 General

This clause describes the resources to provide Notification to NF service consumers which have explicitly or implicitly subscribed to UDR to be notified when data is changed or removed, or when a stale check shall be triggered.

### 5.3.2 Data Change Notification

The POST method shall be used for Data Change Notifications.

- For explicit subscriptions (i.e., subscriptions created under the "subs-to-notif" collection resource, the URI shall be as provided during the subscription procedure;

- For implicit subscriptions, the UDR shall use either a locally configured callback URI of the UDM, or the UDR may retrieve from NRF a default notification URI stored by UDM in NRF during the NF registration procedure.

- If the UDM uses implicit subscriptions to receive notifications from UDR, the UDM shall register in NRF a default notification URI globally at NF Profile level (see 3GPP TS 29.510 [19], clause 6.1.6.2.2), rather than registering individual default notification URIs per NF Service.

The "callback" clause of the OpenAPI specification found in Annex A.2 associated to the POST method of the "subs-to-notif" resource shall be used as the notification request for both explicit and implicit subscriptions.

NOTE: For explicit subscriptions, a stateless UDM/NF provides a URI which identifies a set of UDMs/NFs; a stateful UDM/NF provides a specific URI identifying a node.

Resource URI: {callbackReference}

Support of URI query parameters is specified in table 5.3.2-1.

Table 5.3.2-1: URI query parameters supported by the POST method

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

Support of request data structures is specified in table 5.3.2-2 and of response data structures and response codes is specified in table 5.3.2-3.

Table 5.3.2-2: Data structures supported by the POST Request Body

|  |  |  |  |
| --- | --- | --- | --- |
| Data type | P | Cardinality | Description |
| DataChangeNotify | M | 1 |  |

Table5.3.2-3: Data structures supported by the POST Response Body

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Data type | P | Cardinality | Response  codes | Description |
| n/a |  |  | 204 No Content | Upon success, an empty response body shall be returned. |

The structure of the Notifications from changes on the explicitly subscribed resources (i.e. the resource indicated by the MonitoriedResourceUri) or implicitly subscribed resources of type Collection or Store, are described in Table 5.3.2-4.

NOTE: Table 5.3.2-4 follows the considerations for handling JSON arrays described in 3GPP TS 29.501 Annex E.

Table 5.3.2-4: The structure of the Notifications of type Collection or Store

|  |  |  |
| --- | --- | --- |
| Subscribed Resource name | DataChangeNotify Content Type | Description |
| SmfRegistrations (Store) | SmfRegList | The complete replacement array representation of the SmfRegList shall be included in the DataChangeNotify. |
| ProvisionedParameterDataEntries (Store) | PpDataEntryList | The complete replacement array representation of the PpDataEntryList shall be included in the DataChangeNotify. |
| SubscriptionDataSubscriptions (Collection) | array(SubscriptionDataSubscriptions) | The complete replacement array representation of the SubscriptionDataSubscriptions shall be included in the DataChangeNotify. |
| 5GVnGroups (Store) | map(5GVnGroupConfiguration) | The complete map respresenation shall be included in the DataChangeNotify. |

### 5.3.3 Data Removal Notification

The POST method shall be used for Data Removal Notifications.

Data Removal Notifications are used for subscription withdraw cases implicitly subscribed by the UDM.

- The UDR shall use either a locally configured callback URI of the UDM, or the UDR may retrieve from NRF a default notification URI stored by UDM in NRF during the NF registration procedure.

- The UDM should register in NRF a default notification URI globally at NF Profile level, rather than registering individual default notification URIs per NF Service.

The "callback" clause of the OpenAPI specification found in Annex A.2 associated to the POST method of the "subs-to-notif" resource shall be used as the notification request.

Resource URI: {callbackReference}

Support of URI query parameters is specified in table 5.3.3-1.

Table 5.3.3-1: URI query parameters supported by the POST method

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

Support of request data structures is specified in table 5.3.3-2 and of response data structures and response codes is specified in table 5.3.3-3.

Table 5.3.3-2: Data structures supported by the POST Request Body

|  |  |  |  |
| --- | --- | --- | --- |
| Data type | P | Cardinality | Description |
| DataChangeNotify | M | 1 | notifyItems within the DataChangeNotify type shall indicate deletion of the resources Amf3GppAccessRegistration and/or AmfNon3GppAccessRegistration |

Table5.3.3-3: Data structures supported by the POST Response Body

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Data type | P | Cardinality | Response  codes | Description |
| n/a |  |  | 204 No Content | Upon success, an empty response body shall be returned. |
| NOTE: In addition common data structures as listed in table 5.5-1 are supported. | | | | |

### 5.3.4 Stale Check Notification

The POST method shall be used for Stale Check Notifications.

Stale Check Notifications are used if one or several IndividualSmfRegistration resources for a given UeId are assumed/suspected to be stale e.g. due to a lost deregistration and are implicitly subscribed by the UDM.

The UDR may use an internal, e.g. time based mechanism to determine when and whether a given IndividualSmfRegistration is assumed/suspected to be stale.

Resource URI: {udmStaleCheckCallbackUri}

Support of URI query parameters is specified in table 5.3.4-1.

Table 5.3.4-1: URI query parameters supported by the POST method

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

Support of request data structures is specified in table 5.3.4-2 and of response data structures and response codes is specified in table 5.3.4-3.

Table 5.3.4-2: Data structures supported by the POST Request Body

|  |  |  |  |
| --- | --- | --- | --- |
| Data type | P | Cardinality | Description |
| SmfRegistrationInfo | M | 1 | Contains a list of SMF registrations that are assumed to be stale |

Table5.3.4-3: Data structures supported by the POST Response Body

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Data type | P | Cardinality | Response  codes | Description |
| n/a |  |  | 204 No Content | Upon success, an empty response body shall be returned. |

## 5.4 Data Model

### 5.4.1 General

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

Table 5.4.1-1 specifies the data types defined for the Nudr service based interface protocol.

Table 5.4.1-1: Nudr Subscriber Data specific Data Types

|  |  |  |
| --- | --- | --- |
| Data type | Clause defined | Description |
| AuthenticationSubscription | 5.4.2.2 | A UE's authentication data |
| OperatorSpecificDataContainer | 5.4.2.3 | Container for operator specific data |
| SmfRegList | 5.4.2.4 | The list of all the SMF registrations of a UE |
| SubscriptionDataSubscriptions | 5.4.2.5 | A subscription to notifications. |
| DataChangeNotify | 5.4.2.6 | Container for data which have changed and notification was requested when changed. |
| IdentityData | 5.4.2.7 | Identity data corresponds to the provided ueId |
| ProvisionedDataSets | 5.4.2.8 | Contains the provisioned data sets |
| SorData | 5.4.2.9 | Used to store the status of the latest SOR data update |
| UpuData | 5.4.2.9A | Used to store the status of the latest UPU data update |
| NssaiAckData | 5.4.2.9B | Used to store the status of the latest NSSAI data update |
| CagAckData | 5.4.2.9C | Used to store the status of the latest CAG data update |
| AmfSubscriptionInfo | 5.4.2.19 | Information the UDR stores and retrieves related to active subscriptions at the AMF(s) |
| EeProfileData | 5.4.2.20 | Event Exposure Profile Data |
| ContextDataSets | 5.4.2.22 | Contains the context data sets |
| SequenceNumber | 5.4.2.23 | Contains the SQN |
| MessageWaitingData | 5.4.2.24 | Message Waiting Data list |
| SmscData | 5.4.2.25 | Addresses of SM-Service Center entities with SMS waiting to be delivered to the UE |
| SmfSubscriptionInfo | 5.4.2.26 | Information the UDR stores and retrieves related to active subscriptions at the SMF(s) |
| SmfSubscriptionItem | 5.4.2.27 | Contains info about a single SMF event subscription |
| MtcProvider | 5.4.2.28 | MTC provider information |
| HssSubscriptionInfo | 5.4.2.29 | Information the UDR stores related to active subscriptions at the HSS(s) |
| HssSubscriptionItem | 5.4.2.30 | Contains info about a single HSS event subscription |
| EeGroupProfileData | 5.4.2.31 | The Event Exposure Profile Data for a group of UEs |
| Pp5gVnGroupProfileData | 5.4.2.32 | The Parameter Provision Profile Data for 5G VN groups |
| PpProfileData | 5.4.2.33 | The Parameter Provision Profile Data |
| AllowedMtcProviderInfo | 5.4.2.34 | Allowed MTC Providers or AFs Information to provision parameters for UE. |
| GroupIdentifiers | 5.4.2.35 | External or Internal Group Identifier with a list of group members |
| AuthorizationData | 5.4.2.36 | Authorization Information |
| NiddAuthorizationInfo | 5.4.2.37 | Information the UDR stores and retrieves related to active NIDD authorizations |
| PpDataEntryList | 5.4.2.38 | A list of the Provisioned Parameters entries. |
| UeSubscribedDataSets | 5.4.2.39 | Contains the subscribed data sets of a UE |
| ServiceSpecificAuthorizationInfo | 5.4.2.40 | Information the UDR stores and retrieves related to active Service Specific authorizations |
| NfIdentifier | 5.4.2.41 | Network Function Identifier |
| EeSubscriptionExt | 5.4.2.42 | Extended Event Exposure Subscription |
| AdditionalEeSubsInfo | 5.4.2.43 | Additional EE-Subscription Information |
| ImmediateReport | 5.4.2.44 | Immediate Report |
| Pp5gMbsGroupProfileData | 5.4.2.45 | The Parameter Provision Profile Data for 5G MBS groups |
| AllowedMbsInfo | 5.4.2.46 | Allowed AFs Information to provision parameters for UE. |
| UeUpdConfData | 5.4.2.47 | UE Update Confirmation Data |
| AdditionalDataRef | 5.4.2.48 | Additional Data Reference |
| VarPlmnId | 5.4.3.2 | String identifying a PLMN ID or an SNPN ID. |
| AuthMethod | 5.4.3.3 | Contains the Authentication Method |
| ProvisionedDataSetName | 5.4.3.4 | The name of data set |
| ContextDataSetName | 5.4.3.6 | The name of context data set |
| SqnScheme | 5.4.3.7 | Scheme for generation of Sequence Numbers |
| Sign | 5.4.3.8 | Sign of the DIF value |
| UeUpdateStatus | 5.4.3.9 | Status of the procedure |
| PpDataType | 5.4.3.10 | The data type of the Provisioned Parameters |
| UeSubscribedDataSetName | 5.4.3.11 | The name of subscribed data set |

Table 5.4.1-2 specifies data types re-used by the Nudr 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 Nudr service based interface.

Table 5.4.1-2: Nudr re-used Data Types

|  |  |  |
| --- | --- | --- |
| Data type | Reference | Comments |
| AccessAndMobilitySubscriptionData | 3GPP TS 29.503 [6] | Access and Mobility Subscription Data |
| SmfSelectionSubscriptionData | 3GPP TS 29.503 [6] | SMF Selection Subscription Data |
| SmSubsData | 3GPP TS 29.503 [6] | Session Management Subscription Data |
| Amf3GppAccessRegistration | 3GPP TS 29.503 [6] | The complete set of information relevant to the AMF where the UE has registered via 3GPP access. |
| AmfNon3GppAccessRegistration | 3GPP TS 29.503 [6] | The complete set of information relevant to the AMF where the UE has registered via non 3GPP access. |
| SmfRegistration | 3GPP TS 29.503 [6] | The complete set of information relevant to an SMF serving the UE |
| SmsfRegistration | 3GPP TS 29.503 [6] | The complete set of information relevant to the SMSF serving the UE. |
| SmsManagementSubscriptionData | 3GPP TS 29.503 [6] | SMS Management Subscription Data |
| SupportedFeatures | 3GPP TS 29.571 [3] | Used to negotiate the applicability of the optional features |
| ProblemDetails | 3GPP TS 29.571 [3] | Detailed information about the status code. |
| PpData | 3GPP TS 29.503 [6] | Parameter Provision Data |
| PpDataEntry | 3GPP TS 29.503 [6] | Provisioned Parameter Data Entry |
| SmsSubscriptionData | 3GPP TS 29.503 [6] | SMS Subscription Data |
| PatchItem | 3GPP TS 29.571 [3] | Data structure used for JSON patch. |
| SdmSubscription | 3GPP TS 29.503 [6] | A subscription to notifications |
| EeSubscription | 3GPP TS 29.503 [6] | A subscription to Notifications of event exposure |
| Uri | 3GPP TS 29.571 [3] | URI |
| TraceData | 3GPP TS 29.571 [3] | Trace Data |
| Dnn | 3GPP TS 29.571 [3] | Data Network Name |
| Snssai | 3GPP TS 29.571 [3] | Single NSSAI |
| VarUeId | 3GPP TS 29.571 [3] | String represents the SUPI or GPSI. |
| NfInstanceId | 3GPP TS 29.571 [3] | NF Instance Identifier |
| NotifyItem | 3GPP TS 29.571 [3] | Common data type used for data change notification. |
| OdbData | 3GPP TS 29.571 [3] | Operator Determined Barring Data |
| EventType | 3GPP TS 29.503 [6] | Event Type |
| ExtGroupId | 3GPP TS 29.503 [6] | External Group Identifier |
| PduSessionId | 3GPP TS 29.571 [3] | PDU Session ID which identifies a PDU session |
| DateTime | 3GPP TS 29.571 [3] | Date Time |
| UpuMac | 3GPP TS 29.509 [15] | MAC value for protecting UPU procedure (UPU-MAC-IAUSF and UPU-MAC-IUE) |
| 5GVnGroupConfiguration | 3GPP TS 29.503 [6] | 5G VN Group Configuration data |
| PatchResult | 3GPP TS 29.571 [3] | Patch Result |
| SupportedFeatures | 3GPP TS 29.571 [3] | Supported Features |
| AppPortId | 3GPP TS 29.503 [6] | Application Port Identifier |
| LcsPrivacyData | 3GPP TS 29.503 [6] | LCS Privacy Subscription Data |
| LcsMoData | 3GPP TS 29.503 [6] | LCS Mobile Originated Subscription Data |
| MtcProviderInformation | 3GPP TS 29.571 [3] | An ID uniquely identifying MTC provider information |
| EnhancedCoverageRestrictionData | 3GPP TS 29.503 [6] | Enhanced Coverage Restriction Data |
| LocationInfo | 3GPP TS 29.503 [6] | Location Information |
| V2xSubscriptionData | 3GPP TS 29.503 [6] | V2X Subscription Data |
| E164Number | 3GPP TS 29.503 [6] | E164Number |
| NetworkNodeDiameterAddress | 3GPP TS 29.503 [6] | Diameter Address of an Network Node |
| IpSmGwRegistration | 3GPP TS 29.503 [6] | The complete set of information relevant to the IP-SM-GW where the UE has registered. |
| LcsBroadcastAssistanceTypesData | 3GPP TS 29.503 [6] | LCS Broadcast Assistance Data Types |
| ContextInfo | 3GPP TS 29.503 [6] | Contains the headers received by an NF. |
| NfGroupId | 3GPP TS 29.571 [3] | NF Group ID |
| ProseSubscriptionData | 3GPP TS 29.503 [6] | ProSe Service Subscription Data |
| PlmnId | 3GPP TS 29.571 [3] | PLMN ID |
| AppPortId | 3GPP TS 29.503 [6] | Application Port Id |
| AuthorizationInfo | 3GPP TS 29.503 [6] | Contains Authorization Information |
| MbsSubscriptionData | 3GPP TS 29.503 [6] | Contains 5MBS Subscription Data |
| ServiceType | 3GPP TS 29.503 [6] | Service Type |
| RoamingInfoUpdate | 3GPP TS 29.503 [6] | Roaming Information in EPC domain |
| UcSubscriptionData | 3GPP TS 29.503 [6] | User Consent Data |
| UcPurpose | 3GPP TS 29.503 [6] | User Consent Purpose |
| PeiUpdateInfo | 3GPP TS 29.503 [6] | PEI Update Information |
| SharedData | 3GPP TS 29.503 [6] | Shared Data |
| TimeSyncSubscriptionData | 3GPP TS 29.503 [6] | Contains Time Synchronization Subscription Data |
| LcsSubscriptionData | 3GPP TS 29.503 [6] | UE’s other LCS Subscription Data |
| RangingSlPosSubscriptionData | 3GPP TS 29.503 [6] | Ranging and Sidelink Positioning Service Subscription Data |
| SmfRegistrationInfo | 3GPP TS 29.503 [6] | SMF Registration Information |
| A2xSubscriptionData | 3GPP TS 29.503 [6] | A2X Subscription Data |

### 5.4.2 Structured data types

#### 5.4.2.1 Introduction

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

#### 5.4.2.2 Type: AuthenticationSubscription

Table 5.4.2.2-1: Definition of type AuthenticationSubscription

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Attribute name | Data type | P | Cardinality | Description |
| authenticationMethod | AuthMethod | M | 1 | String containing the Authentication Method ("5G\_AKA", "EAP\_AKA\_PRIME", "EAP\_TLS"...) that shall be used when the UE's device is 5G capable.  If AV generation for HSS is required in UDM, this attribute shall take any 5G AKA-based value (i.e. "5G\_AKA" or "EAP\_AKA\_PRIME"). |
| encPermanentKey | string | C | 0..1 | The encrypted value (hexstring) of the permanent authentication key (K) (see 3GPP TS 33.501 [9]).  It shall be present if the authentication method is "5G\_AKA" or "EAP\_AKA\_PRIME" unless vector generation is to be done in the HSS. |
| protectionParameterId | string | C | 0..1 | Identifies a parameter set securely stored in the UDM (ARPF) that can be used to decrypt the encPermanentKey (and encOpcKey or encTopcKey if present). Values and their meaning are HPLMN-operator specific.  It shall be present if the authentication method is "5G\_AKA" or "EAP\_AKA\_PRIME" unless vector generation is to be done in the HSS. |
| sequenceNumber | SequenceNumber | C | 0..1 | String containing the SQN as defined in 3GPP TS 33.102 [10].  It shall be present if the authentication method is "5G\_AKA" or "EAP\_AKA\_PRIME" unless vector generation is to be done in the HSS. |
| authenticationManagementField | string | C | 0..1 | Hexstring containing the Authentication management field as defined in 3GPP TS 33.501 [9].  It shall be present if the authentication method is "5G\_AKA" or "EAP\_AKA\_PRIME" unless vector generation is to be done in the HSS.  Pattern: '^[A-Fa-f0-9]{4}$' |
| algorithmId | string | C | 0..1 | Identifies a parameter set securely stored in the UDM (ARPF) that provides details on the algorithm and parameters used to generate authentication vectors. Values and their meaning are HPLMN-operator specific.  It shall be present if the authentication method is "5G\_AKA" or "EAP\_AKA\_PRIME" unless vector generation is to be done in the HSS. |
| encOpcKey | string | O | 0..1 | Hexstring of the encrypted OPC Key.  Presence indicates that the provided value (decrypted) shall be used instead of the value derived from OP and K. |
| encTopcKey | string | O | 0..1 | Hexstring of the encrypted TOPC Key.  Presence indicates that the provided value (decrypted) shall be used instead of the value derived from TOP and K. |
| hssGroupId | NfGroupId | O | 0..1 | Identity of the HSS group associated with the subscription that might be used by the UDM to discover the HSS; see 3GPP TS 29.510 [19].  This attribute may be present if the vectorGenerationInHss attribute is present and set to True. |
| vectorGenerationInHss | boolean | O | 0..1 | True indicates that the UDM needs to retrieve an Authentication Vector from the HSS;  False and absence indicates that vector generation shall be performed in the UDM. |
| n5gcDeviceAuthMethod | AuthMethod | O | 0..1 | String containing the Authentication Method that shall be used when the UE's device is Non-5G-Capable behind Cable RGs in private networks or in isolated deployment scenarios with wireline access.  See NOTE. |
| rgAuthenticationInd | boolean | O | 0..1 | true: indicates that authentication by the home network is not required if authentication has been completed by the W-5GAN. See 3GPP TS 33.501 [9] clause 7b. false (default): otherwise. |
| supi | Supi | C | 0..1 | If present, this IE shall contain the UE's SUPI which shall contain an IMSI.  It shall be present if the subscription is allowed to be identified by a pseudonym of the SUPI e.g. by a GCI or GLI that is not the SUPI. |
| akmaAllowed | boolean | O | 0..1 | This IE indicates whether or not the subscriber is allowed to use AKMA:  - true: subscriber is allowed to use AKMA  - absent or false: subscriber is not allowed to use AKMA |
| routingId | string | C | 0..1 | This IE shall be present if the akmaAllowed is set to "true".  When present, this IE shall include the Routing Indicator contained in the SUCI (see 3GPP TS 23.003 [5], clause 2.2B). |
| NOTE: The attribute n5gcDeviceAuthMethod is used for EAP-TLS, which is described in the informative annex O of 3GPP TS 33.501 [9] and is not mandatory to support. | | | | |

#### 5.4.2.3 Type: OperatorSpecificDataContainer

Table 5.4.2.3-1: Definition of type OperatorSpecificDataContainer

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Attribute name | Data type | P | Cardinality | Description |
| dataType | string | M | 1 | This attribute value must be a string equals to the name of the actual data type of the "Value" attribute. |
| value | any type | M | 1 |  |
| dataTypeDefinition | string | O | 0..1 | If present, this attribute is applicable when "dataType" takes value "object" or "array" and it shall contain a JSON Pointer expression referencing a JSON Schema data type definition (same as how the attribute "$ref" is used in JSON Schema specifications), which the "value" attribute must conform to. |
| supportedFeatures | SupportedFeatures | C | 0..1 | Indicates the list of negotiated supported features.  This parameter shall be supplied by the UDR in the response to the GET request when the GET request includes the "supported-features" query parameter and the UDR supports feature negotiation for the OperatorSpecificData resource defined in this specification and in 3GPP TS 29.519 [17]. |
| resetIds | array(string) | O | 1..N | This IE uniquely identifies a part of temporary data in UDR that contains the created resource.  This attribute may be provided in the response of successful resource creation. |

EXAMPLE 1: A JSON object of type "OperatorSpecificDataContainer" can be as follows:

{

"dataType": "object",

"value": {

"operatorData1": "foo",

"operatorData2": 123,

"operatorData3": false

},

"dataTypeDefinition": "https://operator.com/definitions.json#/OpSpecificDataType"

}

And where the file "/definitions.json" contains a fragment as follows:

{

"OpSpecificDataType": {

"type": "object",

"properties": {

"operatorData1": {

"type": "string"

},

"operatorData2": {

"type": "integer"

},

"operatorData3": {

"type": "boolean"

}

}

}

}

EXAMPLE 2: A JSON object of type "OperatorSpecificDataContainer" can be as follows:

{

"dataType": "array",

"value": [ "foo", "bar" ],

"dataTypeDefinition": "https://operator.com/definitions.json#/OpSpecificDataType2"

}

And where the file "/definitions.json" contains a fragment as follows:

{

"OpSpecificDataType2": {

"type": "array",

"items": {

"type": "string",

"minLength": 3

},

"minItems": 1

}

}

#### 5.4.2.4 Type: SmfRegList

Table 5.4.2.4-1: Definition of type SmfRegList

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Attribute name | Data type | P | Cardinality | Description |
| N/A | array(SmfRegistration) | M | 0..N | Each member of the array (if any) is an individual SMF registration of the UE.  An empty array indicates absence of any SmfRegistration. |

#### 5.4.2.5 Type: SubscriptionDataSubscriptions

Table 5.4.2.5-1: Definition of type SubscriptionDataSubscriptions

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Attribute name | Data type | P | Cardinality | Description | Applicability |
| callbackReference | Uri | M | 1 | Identifies the UDM/NF pool or an individual UDM/NF which should be used by the UDR to send notification to UDM/NF. |  |
| originalCallbackReference | Uri | O | 0..1 | URI provided by the NF service consumer to the UDM to receive notifications from the UDR.  If "sdmSubscription" is present, this attribute may be absent (and, if it is also present, it shall take the same value as the attribute "callbackReference" of "sdmSubscription"). |  |
| ueId | VarUeId | O | 0..1 | User identity if subscription to notifications is related to a user. |  |
| monitoredResourceUris | array(Uri) | M | 1..N | A set of URIs that identify the resources for which a modification of the representation triggers a notification.  The URI shall take the form of either an absolute URI or an absolute-path reference as defined in IETF RFC 3986 [16].  The URI shall not contain query parameters.  See NOTE 1. |  |
| expiry | DateTime | C | 0..1 | This IE shall be included in a subscription response, if, based on operator policy and taking into account the expiry time included in the request, the UDR needs to include an expiry time.  This IE may be included in a subscription request. When present, this IE shall represent the time after which the subscription becomes invalid.  The absence of this attribute in the subscription response means the subscription to be valid without an expiry time. |  |
| sdmSubscription | SdmSubscription | O | 0..1 | Data related to the subscription to changes on SDM data, created by the NF Service Consumer of the UDM (see 3GPP TS 29.503 [6], clause 6.1.6.2.3). |  |
| hssSubscriptionInfo | HssSubscriptionInfo | O | 0..1 | HSS Subscription Info associated with the sdmSubscription. |  |
| subscriptionId | string | C | 0..1 | This attribute shall be present if the SubscriptionDataSubscriptions is sent in a GET response message or in a Notification. It identifies the individual SubscriptionDataSubscriptions stored in the UDR and may be used by the UDM to e.g. delete or update a SubscriptionDataSubscriptions.  Read Only: true |  |
| uniqueSubscription | boolean | C | 0..1 | This attribute shall be present and set to true if the UDM requests the UDR to maintain a single UDM subscription per UE.  The attribute shall not be set to true if the sdmSubscription attribute is present.  The attribute shall not be set to true if the sdmSubscription and UeId attributes are not present.  See clause 5.2.20.3.1. |  |
| supportedFeatures | SupportedFeatures | O | 0..1 | Used to negotiate the applicability of optional features |  |
| immediateReport | boolean | O | 0..1 | This IE indicates whether immediate report is requested or not.  When present, this IE shall be set as following:  - true: immediate report is required  - false (default) immediate report is not required | ImmediateReport |
| report | ImmediateReport | C | 0..1 | This IE shall be present in Subscribe response, if the immediateReport attribute is set to "true" in Subscribe request.  When present, this IE shall contain the representation of subscription data sets that need to be monitored, i.e. listed in monitoredResourceUris attribute. | ImmediateReport |
| additionalDataRefs | array(AdditionalDataRef) | O | 1..N | A list of URIs (associated to monitoredResourceURIs) identifying resources in the UDR. The representations of these resources may be included in the notification request as additionalData, when the notification for the associated monitoredResourceURI is sent. |  |
| NOTE 1: The UDR should handle only the relative-path part (apiSpecificResourceUriPart, see 3GPP TS 29.501 [7] clause 4.4.1) and ignore possible inconsistencies (caused by e.g. an SCP) in the base URI part. | | | | | |

NOTE: Consumers can choose not to request an Immediate Report when subscribing to large collection resources to avoid potential too long response messages.

#### 5.4.2.6 Type: DataChangeNotify

Table 5.4.2.6-1: Definition of type DataChangeNotify

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Attribute name | Data type | P | Cardinality | Description |
| originalCallbackReference | array(Uri) | C | 1..N | Original Callback Reference shall be present if a UDM has subscribed to notification due to an request from an NF. If present it is Identifying the NF to which the UDM has to provide the notification of data change. |
| ueId | VarUeId | C | 0..1 | User identity if subscription to notifications is related to a user that may be provided e.g. in case OriginalCallback URI is not included. |
| notifyItems | array(NotifyItem) | O | 1..N | This attribute contains the changes which have been applied on the resources. |
| sdmSubscription | SdmSubscription | O | 0..1 | Data related to the subscription to changes on SDM data created by the NF Service Consumer of the UDM (see 3GPP TS 29.503 [6], clause 6.1.6.2.3).  This attribute should be omitted if the SubscriptionsDataSubscriptions array is included. |
| additionalSdmSubscriptions | array(SdmSubscription) | C | 1..N | Shall be present if more than one subscription to changes on SDM data created by different NF service consumers of the UDM exist. This attribute if present shall convey sdm subscriptions in addition to and different from the sdm subscription present in the sdmSubscription attribute. |
| subscriptionDataSubscriptions | array(SubscriptionDataSubscriptions) | O | 1..N | This attribute contain the Subscription Data Subscriptions (subs-to-notify) associated with the Notification. |
| additionalData | map(AnyType) | O | 1..N | A map of additional data (list of key-value pairs where the data’s resource URI serves as key). |

#### 5.4.2.7 Type: IdentityData

Table 5.4.2.7-1: Definition of type IdentityData

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Attribute name | Data type | P | Cardinality | Description |
| supiList | array(Supi) | C | 1..N | Supi list corresponding to the provided gpsi ueId. |
| gpsiList | array(Gpsi) | C | 1..N | Gpsi list corresponding to the provided supi ueId.  Zero or one MSISDN and/or zero or more external Identifiers may be included. |
| allowedAfIds | array(string) | O | 1..N | A list of Application Function Identifiers authorized to retrieve this Identities lists. The absence of this IE indicates that any AF is allowed to retrieve them. |
| applicationPortIds | map(Gpsi) | O | 1..N | A map (list of key-value pairs where AppPortId serves as key) of GPSIs. |

#### 5.4.2.8 Type: ProvisionedDataSets

Table 5.4.2.8-1: ProvisionedDataSets

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Attribute name | Data type | P | Cardinality | Description |
| amData | AccessAndMobilitySubscriptionData | O | 0..1 | Access and Mobility Subscription Data |
| smfSelData | SmfSelectionSubscriptionData | O | 0..1 | SMF Selection Subscription Data |
| smsSubsData | SmsSubscriptionData | O | 0..1 | SMS Subscription Data |
| smData | SmSubsData | O | 0..1 | Session Management Subscription Data |
| traceData | TraceData | O | 0..1 | Trace Data. The Null value indicates that trace is not active. |
| smsMngData | SmsManagementSubscriptionData | O | 0..1 | SMS Management Subscription Data |
| lcsPrivacyData | LcsPrivacyData | O | 0..1 | LCS Privacy Subscription Data |
| lcsMoData | LcsMoData | O | 0..1 | LCS Mobile Originated Subscription Data |
| lcsSubscriptionData | LcsSubscriptionData | O | 0..1 | Other LCS Subscription Data |
| lcsBcaData | LcsBroadcastAssistanceTypesData | O | 0..1 | LCS Broadcast Assistance Subscription Data |
| v2xData | V2xSubscriptionData | O | 0..1 | V2X Subscription Data |
| proseData | ProseSubscriptionData | O | 0..1 | ProSe service Subscription Data |
| odbData | OdbData | O | 0..1 | Operator Determined Barring Subscription Data |
| eeProfileData | EeProfileData | O | 0..1 | Event Exposure Profile Data |
| ppProfileData | PpProfileData | O | 0..1 | Parameter Provisioning Profile Data |
| niddAuthData | AuthorizationData | O | 0..1 | NIDD Authorization Data |
| ucData | UcSubscriptionData | O | 0..1 | User Consent Data |
| mbsSubscriptionData | MbsSubscriptionData | O | 0..1 | 5MBS Subscription Data |
| ppData | PpData | O | 0..1 | Parameter Provisioning Data |
| a2xData | A2xSubscriptionData | O | 0..1 | A2X Subscription Data |

#### 5.4.2.9 Type: SorData

Table 5.4.2.9-1: Definition of type SorData

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Attribute name | Data type | P | Cardinality | Description |
| provisioningTime | DateTime | M | 1 | Point in time of provisioning |
| ueUpdateStatus | UeUpdateStatus | M | 1 | status of the SOR data update procedure |
| sorXmacIue | SorMac | C | 0..1 | String containing SoR-XMAC-IUE as specified in 3GPP TS 33.501 [9]. Shall be present if UeUpdateStatus is "WAITING\_FOR\_ACK" or "ACK\_RECEIVED". |
| sorMacIue | SorMac | C | 0..1 | String containing SoR-MAC-IUE as specified in 3GPP TS 33.501 [9]. Shall be preset if UeUpdateStatus is "ACK\_RECEIVED". |
| meSupportOfSorCmci | boolean | C | 0..1 | When present, indicates "ME support of SOR-CMCI" sent from UE as defined in 3GPP TS 23.122 [14] and 3GPP TS 24.501 [27].  As described in 3GPP TS 23.122 [14] Annex C.2 step 3a, this attribute will be deleted (set to False) during UE initiates initial registration or emergency registration.  - True: ME supports SOR-CMCI  - False or absent: ME does not support SOR-CMCI |
| meSupportOfSorSnpnSi | boolean | C | 0..1 | When present, it indicates "ME support of SOR-SNPN-SI" as defined in Clause C.5 of 3GPP TS 23.122 [14].  - true: ME supports SOR-SNPN-SI.  - false or absent: ME does not support SOR-SNPN-SI. |
| meSupportOfSorSnpnSiLs | boolean | C | 0..1 | When present, it indicates "ME support of SOR-SNPN-SI-LS” as defined in Clause C.5 of 3GPP TS 23.122 [14].  - true: ME supports SOR-SNPN-SI-LS.  - false or absent: ME does not support SOR-SNPN-SI-LS. |

#### 5.4.2.9A Type: UpuData

Table 5.4.2.9A-1: Definition of type UpuData

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Attribute name | Data type | P | Cardinality | Description |
| provisioningTime | DateTime | M | 1 | Point in time of provisioning |
| ueUpdateStatus | UeUpdateStatus | M | 1 | status of the UPU data update procedure |
| upuXmacIue | UpuMac | C | 0..1 | String containing UPU-XMAC-IUE as specified in 3GPP TS 33.501 [9]. Shall be present if UeUpdateStatus is "WAITING\_FOR\_ACK" or "ACK\_RECEIVED". |
| upuMacIue | UpuMac | C | 0..1 | String containing UPU-MAC-IUE as specified in 3GPP TS 33.501 [9]. Shall be preset if UeUpdateStatus is "ACK\_RECEIVED". |

#### 5.4.2.9B Type: NssaiAckData

Table 5.4.2.9B-1: Definition of type NssaiAckData

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Attribute name | Data type | P | Cardinality | Description |
| provisioningTime | DateTime | M | 1 | Point in time of provisioning |
| ueUpdateStatus | UeUpdateStatus | M | 1 | status of the Nssai update procedure |

#### 5.4.2.9C Type: CagAckData

Table 5.4.2.9C-1: Definition of type CagAckData

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Attribute name | Data type | P | Cardinality | Description |
| provisioningTime | DateTime | M | 1 | Point in time of provisioning |
| ueUpdateStatus | UeUpdateStatus | M | 1 | status of the Cag update procedure |

#### 5.4.2.10 Void

#### 5.4.2.11 Void

#### 5.4.2.12 Void

#### 5.4.2.13 Void

#### 5.4.2.14 Void

#### 5.4.2.15 Void

#### 5.4.2.16 Void

#### 5.4.2.17 Void

#### 5.4.2.18 Void

#### 5.4.2.19 Type: AmfSubscriptionInfo

Table 5.4.2.19-1: Definition of type AmfSubscriptionInfo

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Attribute name | Data type | P | Cardinality | Description |
| amfInstanceId | NfInstanceId | M | 1 | InstanceId of the AMF to which the subscription was sent |
| subscriptionId | Uri | M | 1 | The Subscription Id allocated by the AMF as received by the UDM in the HTTP "Location" header of the Namf\_EventExposure\_Subscribe response |
| subsChangeNotifyCorrelationId | string | O | 1 | The Correlation Id allocated by the UDM and sent to the AMF for correlation of subscriptionId-change-notifications |
| contextInfo | ContextInfo | O | 0..1 | This IE if present may contain e.g. the headers sent/received by the UDM during AMF Event Exposure subscription. |

#### 5.4.2.20 Type: EeProfileData

Table 5.4.2.20-1: Definition of type EeProfileData

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Attribute name | Data type | P | Cardinality | Description |
| restrictedEventTypes | array(EventType) | O | 1..N | List of the event types that are restricted (if any) for the UE.  The absence of this IE indicates that all event types are authorized for the UE. |
| supportedFeatures | SupportedFeatures | O | 0..1 |  |
| allowedMtcProvider | map(array(MtcProvider)) | O | 1..N(1..M) | A map (list of key-value pairs where EventType (see 3GPP TS 29.503 [6] serves as key) of MTC Provider.  In addition to defined EventTypes, the key value "ALL" may be used to identify a map entry which contains a list of MtcProviders that are allowed monitoring all Event Types.  The absence of this IE indicates that monitoring by any MTC provider is allowed for any non restricted event type. |
| iwkEpcRestricted | boolean | O | 0..1 | If set to True, indicates that interworking with EPC is restricted. Set to False or not present means that the UE is not restriceted in the EPC. |
| imsi | string | O | 0..1 | This IE contains the IMSI of the UE and should be present if the iwkEpcRestricted attribute is not set to True.  pattern: "^[0-9]{5,15}$" |
| hssGroupId | NfGroupId | O | 0..1 | Identity of the HSS group associated with the subscription that might be used by the UDM to discover the HSS; see 3GPP TS 29.510 [19]. This attribute may be present if the iwkEpcRestricted attribute is not present or present and set to False. |

#### 5.4.2.21 Void

#### 5.4.2.22 Type: ContextDataSets

Table 5.4.2.22-1: ContextDataSets

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Attribute name | Data type | P | Cardinality | Description |
| amf3Gpp | Amf3GppAccessRegistration | O | 0..1 | AMF 3GPP Access registration |
| amfNon3Gpp | AmfNon3GppAccessRegistration | O | 0..1 | AMF Non 3GPP Access registration |
| sdmSubscriptions | array(SdmSubscription) | O | 1..N | SDM-Subscriptions |
| eeSubscriptions | array(EeSubscription) | O | 1..N | Event Exposure Subscriptions |
| smsf3GppAccess | SmsfRegistration | O | 0..1 | SMSF 3GPP Access registration |
| smsfNon3GppAccess | SmsfRegistration | O | 0..1 | SMSF Non 3GPP Access registration |
| subscriptionDataSubscriptions | array(SubscriptionDataSubscriptions) | O | 1..N | This attribute contain the Subscription Data Subscriptions (subs-to-notify) associated with the Notification. |
| smfRegistrations | SmfRegList | O | 0..1 | SMF Registrations |
| ipSmGw | IpSmGwRegistration | O | 0..1 | IP-SM-GW Registration |
| roamingInfo | RoamingInfoUpdate | O | 0..1 | Roaming Information |
| peiInfo | PeiUpdateInfo | O | 0..1 | PEI Information |

#### 5.4.2.23 Type: SequenceNumber

Table 5.4.2.23-1: Definition of type SequenceNumber

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Attribute name | Data type | P | Cardinality | Description |
| sqnScheme | SqnScheme | M | 1 | The scheme used to generate the sequence numbers, as described in 3GPP TS 33.102 [10], clause C.1.1. |
| sqn | string | C | 0..1 | A 48-bit hex string containing the SEQ part of SQN (most significant bits), as specified in 3GPP TS 33.102 [10], and where the IND part (least significant bits) is filled with 0's.  When the sqnScheme is "TIME\_BASED", the SEQ part (most significant bits) of this attribute contains the DIF value.  This IE may be absent, if it does not exist in UDR (e.g. right after the subscriber is provisioned); otherwise, it shall be present.  Pattern: '^[A-Fa-f0-9]{12}$' |
| lastIndexes | map(integer) | C | 1..N | A map of integer values, where the key of the map is the type of node that is requesting the generation of an authentication vector in UDM, and the integer is the last used value of IND for the corresponding type of node.  The types of nodes currently defined are:  - "ausf"  - "vlr"  - "sgsn"  - "s-cscf"  - "bsf",  - "gan-aaa-server"  - "wlan-aaa-server"  - "mme"  This IE may be absent, if it does not exist in UDR (e.g. right after the subscriber is provisioned); otherwise, it shall be present. |
| indLength | integer | O | 1 | Number of bits of the IND part of SQN. The length of the SEQ part is, therefore, (48 - indLength) bits.  If not present, the default value is 5. |
| difSign | Sign | O | 1 | Sign of the DIF value. It is applicable when the sqnScheme is "TIME\_BASED".  If not present, the default value is "NEGATIVE". |

#### 5.4.2.24 Type: MessageWaitingData

Table 5.4.2.24-1: Definition of type MessageWaitingData

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Attribute name | Data type | P | Cardinality | Description |
| mwdList | array(SmscData) | O | 1..N | List of addresses of SM-Service Center entities with SMS wating to be delivered to the UE. |

#### 5.4.2.25 Type: SmscData

Table 5.4.2.25-1: Definition of type SmscData

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Attribute name | Data type | P | Cardinality | Description |
| smscMapAddress | E164Number | C | 0..1 | International E.164 number of the SM-SC; it shall be present if the SM-SC supports the MAP protocol. |
| smscDiameterAddress | NetworkNodeDiameterAddress | C | 0..1 | Diameter Identity of the SM-SC; it shall be present if the SM-SC supports the Diameter protocol. |
| NOTE: At least one of the properties, smscMapAddress or smscDiameterAddress, shall be present. | | | | |

#### 5.4.2.26 Type: SmfSubscriptionInfo

Table 5.4.2.26-1: Definition of type SmfSubscriptionInfo

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Attribute name | Data type | P | Cardinality | Description |
| smfSubscriptionList | array(SmfSubscriptionItem) | M | 1..N | List of SmfSubscriptionItem objects |

#### 5.4.2.27 Type: SmfSubscriptionItem

Table 5.4.2.27-1: Definition of type SmfSubscriptionItem

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Attribute name | Data type | P | Cardinality | Description |
| smfInstanceId | NfInstanceId | M | 1 | InstanceId of the SMF to which the subscription was sent |
| subscriptionId | Uri | M | 1 | The Subscription Id allocated by the SMF as received by the UDM in the HTTP "Location" header of the Nsmf\_EventExposure\_Subscribe response |
| contextInfo | ContextInfo | O | 0..1 | This IE if present may contain e.g. the headers received by the UDM along with consuming Nsmf\_EventExposure\_Subscribe service operation. |

#### 5.4.2.28 Type: MtcProvider

Table 5.4.2.28-1: Definition of type MtcProvider

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Attribute name | Data type | P | Cardinality | Description |
| mtcProviderInformation | MtcProviderInformation | O | 0..1 | Indicates MTC provider information for Monitoring Configuration authorization. |
| afId | string | O | 0..1 | ID of the AF. The string identifying the originating AF, formatted as described in the definition of type MonitoringConfiguration in 3GPP TS 29.503 [6]. |

#### 5.4.2.29 Type: HssSubscriptionInfo

Table 5.4.2.29-1: Definition of type HssSubscriptionInfo

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Attribute name | Data type | P | Cardinality | Description |
| hssSubscriptionList | array(HssSubscriptionItem) | M | 1..N | List of hssSubscriptionItem objects |

#### 5.4.2.30 Type: HssSubscriptionItem

Table 5.4.2.30-1: Definition of type HssSubscriptionItem

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Attribute name | Data type | P | Cardinality | Description |
| hssInstanceId | NfInstanceId | M | 1 | InstanceId of the HSS to which the subscription was sent. |
| subscriptionId | Uri | M | 1 | The Subscription Id allocated by the HSS as received by the UDM in the HTTP "Location" header of the Nhss\_EventExposure\_Subscribe response or the Nhss\_SDM\_Subscribe response. |
| contextInfo | ContextInfo | O | 0..1 | This IE if present may contain e.g. the headers received by the UDM along with consuming Nhss\_EventExposure\_Subscribe service operation or the Nhss\_SDM\_Subscribe response. |

#### 5.4.2.31 Type: EeGroupProfileData

Table 5.4.2.31-1: Definition of type EeGroupProfileData

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Attribute name | Data type | P | Cardinality | Description |
| restrictedEventTypes | array(EventType) | O | 1..N | List of the event types that are restricted (if any) for the group.  The absence of this IE indicates that all event types are authorized for the group. |
| allowedMtcProvider | map(array(MtcProvider)) | O | 1..N | A map (list of key-value pairs where EventType (see 3GPP TS 29.503 [6] serves as key) of MTC Provider.  In addition to defined EventTypes, the key value "ALL" may be used to identify a map entry which contains a list of MtcProviders that are allowed monitoring all Event Types.  The absence of this IE indicates that monitoring by any MTC provider is allowed for any non restricted event type. |
| supportedFeatures | SupportedFeatures | O | 0..1 |  |
| iwkEpcRestricted | boolean | O | 0..1 | If set to True, indicates that interworking with EPC is restricted. Set to False or not present means that the UE is not restricted in the EPC. |
| extGroupId | string | O | 0..1 | This IE contains the External Group Identifier and should be present if the iwkEpcRestricted attribute is not set to True.  pattern: "^extgroupid-[^@]+@[^@]+$" |
| hssGroupId | NfGroupId | O | 0..1 | Identity of the HSS group associated with the subscription that might be used by the UDM to discover the HSS; see 3GPP TS 29.510 [19]. This attribute may be present if the iwkEpcRestricted attribute is not present or present and set to False. |

#### 5.4.2.32 Type: Pp5gVnGroupProfileData

Table 5.4.2.32-1: Definition of type Pp5gVnGroupProfileData

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Attribute name | Data type | P | Cardinality | Description |
| allowedMtcProviders | map(array(AllowedMtcProviderInfo)) | O | 1..N | A map (list of key-value pairs where ExtGroupId (see 3GPP TS 29.503 [6]) serves as key of a list of AllowedMtcProviderInfos which include MTC provider informations or AF IDs that are allowed to create, update and delete a 5G VN Group for the user using UDM ParameterProvision service.  In addition to defined external group identifier, the key value "ALL" may be used to identify a map entry which contains a list of AllowedMtcProviderInfos that are allowed operating all the external group identifiers.  The absence of this IE indicates that all the MTC Providers and AFs are authorized to create, update and delete any 5G VN Group. |
| supportedFeatures | SupportedFeatures | O | 0..1 |  |

#### 5.4.2.33 Type: PpProfileData

Table 5.4.2.33-1: Definition of type PpProfileData

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Attribute name | Data type | P | Cardinality | Description |
| allowedMtcProviders | map(array(AllowedMtcProviderInfo)) | O | 1..N | A map (list of key-value pairs where PpDataType (see 5.4.3.10) serves as key of a list of AllowedMtcProviderInfos which include MTC provider informations or AF IDs that are allowed to provision the parameters for the user using UDM ParameterProvision service.  In addition to defined external group identifier, the key value "ALL" may be used to identify a map entry which contains a list of AllowedMtcProviderInfos that are allowed provisioning all types of PP data.  The absence of this IE indicates that all the MTC Providers and AFs are authorized to provision all types of PP data for the UE |
| supportedFeatures | SupportedFeatures | O | 0..1 |  |

#### 5.4.2.34 Type: AllowedMtcProviderInfo

Table 5.4.2.34-1: Definition of type AllowedMtcProviderInfo

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Attribute name | Data type | P | Cardinality | Description |
| mtcProviderInformation | MtcProviderInformation | C | 0..1 | Indicates MTC provider information for Parameters Provision authorization. |
| afId | string | C | 0..1 | Indicates ID of the AF for Parameters Provision authorization.  The string identifying the originating AF, formatted as described in the definition of type MonitoringConfiguration in 3GPP TS 29.503 [6]. |

#### 5.4.2.35 Type: GroupIdentifiers

Table 5.4.2.35-1: Definition of type GroupIdentifiers

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Attribute name | Data type | P | Cardinality | Description |
| extGroupId | ExtGroupId | C | 0..1 | This IE shall contain the External Group ID associated to the provided Internal Group ID. |
| intGroupId | GroupId | C | 0..1 | This IE shall contain the Internal Group ID associated to the provided External Group ID.. |
| ueIdList | array(UeId) | C | 1..N | This IE shall contain a list of the UE identifiers that belong to the provided Internal/External Group ID if they are required. |
| allowedAfIds | array(string) | O | 1..N | A list of Application Function Identifiers authorized to retrieve this Identities lists. The absence of this IE indicates that any AF is allowed to retrieve them. |

#### 5.4.2.36 Type: AuthorizationData

Table 5.4.2.36-1: Definition of type AuthorizationData

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Attribute name | Data type | P | Cardinality | Description |
| authorizationData | array(UserIdentifier) | M | 1..N | May contain a single value or list of (SUPI and GPSI). Contains unique items. |
| allowedDnnList | array(Dnn) | O | 0..N | List of the allowed DNNs that this user can use for NIDD or other specific service |
| allowedSnssaiList | array(Snssai) | O | 0..N | List of the allowed SNSSAIs that this user can use for NIDD or other specific service |
| allowedMtcProviders | array(AllowedMtcProviderInfo) | O | 0..N | List of AllowedMtcProviderInfos which include MTC provider informations or AF IDs that are allowed for NIDD or other specific service |
| validityTime | DateTime | O | 0..1 | Indicates the granted validity time of the AuthorizationData. Absence indicates permanent validity. |

#### 5.4.2.37 Type: NiddAuthorizationInfo

Table 5.4.2.37-1: Definition of type NiddAuthorizationInfo

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Attribute name | Data type | P | Cardinality | Description |
| niddAuthorizationList | array(AuthorizationInfo) | M | 1..N | List of NiddAuthorizationInfo items |

#### 5.4.2.38 Type: PpDataEntryList

Table 5.4.2.38-1: Definition of type PpDataEntryList

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Attribute name | Data type | P | Cardinality | Description |
| ppDataEntryList | array(PpDataEntry) | O | 0..N | List of the Entries under the Provisioned Parameter Data store for a UE. |
| supportedFeatures | SupportedFeatures | O | 0..1 | Contains SupportedFeatures. |

#### 5.4.2.39 Type: UeSubscribedDataSets

Table 5.4.2.39-1: UeSubscribedDataSets as a list of "to be combined data types"

|  |  |  |  |
| --- | --- | --- | --- |
| Data type | Cardinality | Description | Applicability |
| ProvisionedDataSets | 0..1 | See clause 5.4.2.8 |  |
| ContextDataSets | 0..1 | See clause 5.4.2.22 | UESubDataSetExt |
| UeUpdConfData | 0..1 | See clause 5.4.2.47 |  |

#### 5.4.2.40 Type: ServiceSpecificAuthorizationInfo

Table 5.4.2.40-1: Definition of type ServiceSpecificAuthorizationInfo

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Attribute name | Data type | P | Cardinality | Description |
| serviceSpecificAuthorizationList | array(AuthorizationInfo) | M | 1..N | List of ServiceSpecificAuthorizationInfo items |

#### 5.4.2.41 Type: NfIdentifier

Table 5.4.2.41-1: Definition of type NfIdentifier

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Attribute name | Data type | P | Cardinality | Description |
| nfType | NFType | M | 1 | NF Type as defined in 3gpp TS 29.510. |
| nfInstanceId | NfInstanceId | O | 0..1 | Instance ID of the NF as defined in 3GPP TS 29.571. |

#### 5.4.2.42 Type: EeSubscriptionExt

Table 5.4.2.42-1: Definition of type EeSubscriptionExt as a list of "to be combined data types"

|  |  |  |  |
| --- | --- | --- | --- |
| Data type | Cardinality | Description | Applicability |
| EeSubscription | 1 | see 3GPP TS 29.503 [6] |  |
| AdditionalEeSubsInfo | 0..1 |  | EeSubscriptionExt |

#### 5.4.2.43 Type: AdditionalEeSubsInfo

Table 5.4.2.43-1: Definition of type AdditionalEeSubsInfo

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Attribute name | Data type | P | Cardinality | Description | Applicability |
| amfSubscriptionInfoList | array(AmfSubscriptionInfo) | O | 1..2 | List AMF subscription info May be present on Nudr in GET response messages | EeSubscriptionExt |
| smfSubscriptionInfo | SmfSubscriptionInfo | O | 0..1 | SMF subscription info May be present on Nudr in GET response messages | EeSubscriptionExt |
| hssSubscriptionInfo | HssSubscriptionInfo | O | 0..1 | HSS subscription info May be present on Nudr in GET response messages | EeSubscriptionExt |

#### 5.4.2.44 Type: ImmediateReport

Table 5.4.2.44-1: Definition of type ImmediateReport as a list of alternatives

|  |  |  |  |
| --- | --- | --- | --- |
| Data type | Cardinality | Description | Applicability |
| ProvisionedDataSets | 1 | UE based provisioned data sets. |  |
| array(SharedData) | 1..N | Shared subscription data sets that need to be monitored in SubscriptionDataSubscription. |  |

#### 5.4.2.47 Type: UeUpdConfData

Table 5.4.2.47-1: Definition of type UeUpdConfData

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Attribute name | Data type | P | Cardinality | Description | Applicability |
| sorData | SorData | O | 0..1 | UE Update Confirmation Data for SOR |  |
| upuData | UpuData | O | 0..1 | UE Update Confirmation Data for UPU |  |
| nssaiAckData | NssaiAckData | O | 0..1 | UE Update Confirmation Data for NSSAI |  |
| cagAckData | CagAckData | O | 0..1 | UE Update Confirmation Data for CAG |  |

#### 5.4.2.48 Type: AdditionalDataRef

Table 5.4.2.48-1: Definition of type AdditionalDataRef

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Attribute name | Data type | P | Cardinality | Description | Applicability |
| monitoredResourceUris | array(Uri) | M | 1..N | List of monitored resource URIs |  |
| additionalDataUris | array(Uri) | M | 1..N | List of URIs identifying resources, representations of which are requested to be included in notification messages sent when one of the monitoredResource’s representation is modified. |  |

### 5.4.3 Simple data types and enumerations

#### 5.4.3.1 Introduction

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

#### 5.4.3.2 Simple data types

The simple data types defined in table 5.4.3.2-1 shall be supported.

Table 5.4.3.2-1: Simple data types

|  |  |  |
| --- | --- | --- |
| Type Name | Type Definition | Description |
| VarUeGroupId | string | String identifying an external Group of UEs or any UE.  Pattern: '^(extgroupid-[^@]+@[^@]+|anyUE)$' |
| VarPlmnId | string | String identifying a PLMN ID or an SNPN ID.  Pattern: '^[0-9]{5,6}(-[A-Fa-f0-9]{11})?$' |

#### 5.4.3.3 Enumeration: AuthMethod

Table 5.4.3.3-1: Enumeration AuthMethod

|  |  |
| --- | --- |
| Enumeration value | Description |
| "5G\_AKA" | 5G AKA |
| "EAP\_AKA\_PRIME" | EAP AKA' |
| "EAP-TLS" | EAP TLS |
| "EAP\_TTLS" | EAP TTLS |
| "NONE" | No specific EAP method type is signalled. |

#### 5.4.3.4 Enumeration: ProvisionedDataSetName

Table 5.4.3.4-1: Enumeration ProvisionedDataSetName

|  |  |
| --- | --- |
| Enumeration value | Description |
| "AM" | Access and Mobility Subscription Data |
| "SMF\_SEL" | SMF Selection Subscription Data |
| "SMS\_SUB" | SMS Subscription Data |
| "SM" | Session Management Subscription Data |
| "TRACE" | Trace Data |
| "SMS\_MNG" | SMS Management Subscription Data |
| "LCS\_PRIVACY" | LCS Privacy Subscription Data |
| "LCS\_MO" | LCS Mobile Originated Subscription Data |
| "LCS\_BCA" | LCS Broadcast Assistance Subscription Data |
| "LCS\_SUB" | LCS Subscription Data |
| "V2X" | V2X Subscription Data |
| "PROSE" | ProSe service Subscription Data |
| "ODB" | Operator Determined Barring Subscription Data |
| "EE\_PROF" | Event Exposure Profile Data |
| "PP\_PROF" | Parameter Provisioning Profile Data |
| "NIDD\_AUTH" | NIDD Authorization Data |
| "USER\_CONSENT" | User Consent Data |
| "MBS" | 5MBS Subscription Data |
| "PP\_DATA" | Parameter Provisioning Data |
| "A2X" | A2X Subscription Data |

#### 5.4.3.5 Void

#### 5.4.3.6 Enumeration: ContextDataSetName

Table 5.4.3.6-1: Enumeration ContextDataSetName

|  |  |
| --- | --- |
| Enumeration value | Description |
| "AMF\_3GPP" | AMF 3GPP Access Registration |
| "AMF\_NON\_3GPP" | SMF Non 3GPP Access Registration |
| "SDM SUBSCRIPTIONS" | SDM Subscriptions |
| "EE\_SUBSCRIPTIONS" | EE Subscriptions |
| "SMSF\_3GPP" | SMSF 3GPP Access Registration |
| "SMSF\_NON\_3GPP" | SMSF Non 3GPP Access Registration |
| "SUBS\_TO\_NOTIFY" | UDR Subscriptions |
| "SMF\_REG" | SMF Registrations |
| "IP\_SM\_GW" | IP-SM-GW Registration |
| “ROAMING\_INFO” | Roaming Information |
| “PEI\_INFO” | PEI information |

#### 5.4.3.7 Enumeration: SqnScheme

Table 5.4.3.7-1: Enumeration SqnScheme

|  |  |
| --- | --- |
| Enumeration value | Description |
| "GENERAL" | Scheme for generation of Sequence Numbers (partially time-based), as described in 3GPP TS 33.102 [10], clause C.1.1.1 |
| "NON\_TIME\_BASED" | Scheme for generation of Sequence Numbers (non-time-based), as described in 3GPP TS 33.102 [10], clause C.1.1.2 |
| "TIME\_BASED" | Scheme for generation of Sequence Numbers (entirely time-based), as described in 3GPP TS 33.102 [10], clause C.1.1.3 |
| NOTE: These schemes for Sequence Number generation are documented in an informative Annex in 3GPP TS 33.102 [10]; having these different schemes listed in this Enumeration type does not imply that UDM implementations are required to support all of them; the Sequence Number generation schemes that need to be supported by UDM is deployment-specific. | |

#### 5.4.3.8 Enumeration: Sign

Table 5.4.3.8-1: Enumeration Sign

|  |  |
| --- | --- |
| Enumeration value | Description |
| "POSITIVE" |  |
| "NEGATIVE" |  |

#### 5.4.3.9 Enumeration: UeUpdateStatus

Table 5.4.3.9-1: Enumeration UeUpdateStatus

|  |  |
| --- | --- |
| Enumeration value | Description |
| "NOT\_SENT" | SOR data update / UPU data update / NSSAI update / CAG update has not been sent to the AMF e.g. because no AMF was registered at provisioning time |
| "SENT\_NO\_ACK\_REQUIRED" | SOR data update / UPU data update has been sent to the AMF; Acknowledgement was not requested  This state is not applicable for NSSAI update / CAG update |
| "WAITING\_FOR\_ACK" | SOR data update has been sent to the AMF; Acknowledgement has been requested. In this state sorXmacIue shall be present;  or UPU data update has been sent to the AMF; Acknowledgement has been requested. In this state upuXmacIue shall be present;  or NSSAI has been sent to the AMF or CAG has been sent to the AMF. |
| "ACK\_RECEIVED" | SOR data update has been acknowledged by the UE. In this state sorXmacIue and sorMacIue shall be present; or UPU data update has been acknowledged by the UE. In this state upuXmacIue and upuMacIue shall be present; or NSSAI data update has been acknowledged by the UE or CAG data update has been acknowledged by the UE. |
| "NEGATIVE\_ACK\_RECEIVED" | SOR data update / UPU data update has been sent to the AMF, but could not be forwarded to the UE due to the UE not being reachable. |

#### 5.4.3.10 Enumeration: PpDataType

Table 5.4.3.10-1: Enumeration PpDataType

|  |  |
| --- | --- |
| Enumeration value | Description |
| "COMMUNICATION\_CHARACTERISTICS" | Communication Characteristics Parameters |
| "EXPECTED\_UE\_BEHAVIOUR" | Expected UE Behaviour Parameters |
| "EC\_RESTRICTION" | Enhanced Coverage Restriction Parameters |
| "ACS\_INFO" | ACS Information |
| "TRACE" | Trace Data |
| "STN\_SR" | Session Transfer Number for SRVCC |
| "LCS\_PRIVACY" | LCS Privacy Parameters |
| "SOR\_INFO" | Steering of Roaming information to be conveyed to a UE |

#### 5.4.3.11 Enumeration: UeSubscribedDataSetName

Applicable values are those defined as ProvisionedDataSetName or ContextDataSetName, see clauses 5.4.3.4 and 5.4.3.6, and values defined in table 5.4.3.11-1.

Table 5.4.3.11-1: Enumeration UeSubscribedDataSetName

|  |  |
| --- | --- |
| Enumeration value | Description |
| "UE\_UPD\_CONF" | UE Update Confirmation Data |

### 5.4.4 Binary data

N/A

## 5.5 Error handling

Table 5.5-1 lists common response body data structures used within the nudr-dr (Nudr\_DataRepository) API

Table 5.5-1: Common Response Body Data Structures

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Data type** | **P** | **Cardinality** | **Response**  **codes** | **Description** |
| ProblemDetails | O | 0..1 | 4xx, 5xx responses | For unsuccessful status codes, the UDR may provide detailed information. |
| NOTE: In addition common data structures as defined in 3GPP TS 29.500 [8] are supported. | | | | |

The application layer error handling shall follow 3GPP TS 29.504 [2] clause 6.1.6 unless explicitly specified in this document.

## 5.6 Feature negotiation

The optional features in table 6.1.8-1 of 3GPP TS 29.504 [2] are defined for the Nudr\_DataRepository API. They shall be negotiated using the extensibility mechanism defined in clause 6.6 of 3GPP TS 29.500 [8].

Annex A (normative):  
OpenAPI specification

# A.1 General

This Annex specifies the formal definition of the Nudr\_DataRepository service API for Subscription Data. It consists of OpenAPI 3.0.0 specifications, in YAML format.

This Annex takes precedence when being discrepant to other parts of the specification with respect to the encoding of information elements and methods within the API(s).

NOTE: The semantics and procedures, as well as conditions, e.g. for the applicability and allowed combinations of attributes or values, not expressed in the OpenAPI definitions but defined in other parts of the specification also apply.

Informative copies of the OpenAPI specification files contained in this 3GPP Technical Specification are available on a Git-based repository, that uses the GitLab software version control system (see 3GPP TS 29.501 [7] clause 5.3.1 and 3GPP TR 21.900 [14] clause 5B).

# A.2 Nudr\_DataRepository API for Subscription Data

For the purpose of referencing entities in the Open API file defined in this Annex, it shall be assumed that this Open API file is contained in a physical file named "TS29505\_Subscription\_Data.yaml".

openapi: 3.0.0

info:

version: '-'

title: 'Unified Data Repository Service API file for subscription data'

description: |

Unified Data Repository Service (subscription data).

The API version is defined in 3GPP TS 29.504.

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externalDocs:

description: 3GPP TS 29.505 V18.4.0; 5G System; Usage of the Unified Data Repository Service for subscription data; Stage 3

url: 'https://www.3gpp.org/ftp/Specs/archive/29\_series/29.505/'

paths:

/subscription-data/{ueId}/authentication-data/authentication-subscription:

get:

summary: Retrieves the authentication subscription data of a UE

operationId: QueryAuthSubsData

tags:

- Authentication Data (Document)

security:

- {}

- oAuth2ClientCredentials:

- nudr-dr

- oAuth2ClientCredentials:

- nudr-dr

- nudr-dr:subscription-data:authentication-subscription:read

parameters:

- name: ueId

in: path

description: UE id

required: true

schema:

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

- name: supported-features

in: query

description: Supported Features

schema:

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

responses:

'200':

description: Expected response to a valid request

content:

application/json:

schema:

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

'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: modify the authentication subscription data of a UE

operationId: ModifyAuthenticationSubscription

tags:

- Authentication Subscription (Document)

security:

- {}

- oAuth2ClientCredentials:

- nudr-dr

- oAuth2ClientCredentials:

- nudr-dr

- nudr-dr:subscription-data:authentication-subscription:modify

parameters:

- name: ueId

in: path

description: UE id

required: true

schema:

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

- name: supported-features

in: query

description: Features required to be supported by the target NF

schema:

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

requestBody:

content:

application/json-patch+json:

schema:

type: array

items:

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

required: true

responses:

'204':

description: Expected response to a valid request

'403':

description: modification is rejected

content:

application/problem+json:

schema:

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

'200':

description: Expected response to a valid request

content:

application/json:

schema:

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

'400':

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

'401':

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

'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'

/subscription-data/{ueId}/authentication-data/authentication-status:

put:

summary: To store the Authentication Status data of a UE

operationId: CreateAuthenticationStatus

tags:

- Authentication Status (Document)

security:

- {}

- oAuth2ClientCredentials:

- nudr-dr

- oAuth2ClientCredentials:

- nudr-dr

- nudr-dr:subscription-data

parameters:

- name: ueId

in: path

description: UE id

required: true

schema:

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

requestBody:

content:

application/json:

schema:

$ref: 'TS29503\_Nudm\_UEAU.yaml#/components/schemas/AuthEvent'

required: true

responses:

'204':

description: Upon success, an empty response body shall be returned

'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'

get:

summary: Retrieves the Authentication Status of a UE

operationId: QueryAuthenticationStatus

tags:

- AuthEvent (Document)

security:

- {}

- oAuth2ClientCredentials:

- nudr-dr

- oAuth2ClientCredentials:

- nudr-dr

- nudr-dr:subscription-data

parameters:

- name: ueId

in: path

description: UE id

required: true

schema:

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

- name: fields

in: query

description: attributes to be retrieved

required: false

schema:

type: array

items:

type: string

minItems: 1

style: form

explode: false

- name: supported-features

description: Supported Features

in: query

schema:

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

responses:

'200':

description: Expected response to a valid request

content:

application/json:

schema:

$ref: 'TS29503\_Nudm\_UEAU.yaml#/components/schemas/AuthEvent'

'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'

delete:

summary: To remove the Authentication Status of a UE

operationId: DeleteAuthenticationStatus

tags:

- AuthEvent (Document)

security:

- {}

- oAuth2ClientCredentials:

- nudr-dr

- oAuth2ClientCredentials:

- nudr-dr

- nudr-dr:subscription-data

parameters:

- name: ueId

in: path

description: UE id

required: true

schema:

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

responses:

'204':

description: Upon success, an empty response body shall be returned.

'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'

'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'

/subscription-data/{ueId}/authentication-data/authentication-status/{servingNetworkName}:

put:

summary: To store the individual Authentication Status data of a UE

operationId: CreateIndividualAuthenticationStatus

tags:

- Individual Authentication Status (Document)

security:

- {}

- oAuth2ClientCredentials:

- nudr-dr

- oAuth2ClientCredentials:

- nudr-dr

- nudr-dr:subscription-data

parameters:

- name: ueId

in: path

description: UE id

required: true

schema:

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

- name: servingNetworkName

in: path

description: Serving Network Name

required: true

schema:

$ref: 'TS29503\_Nudm\_UEAU.yaml#/components/schemas/ServingNetworkName'

requestBody:

content:

application/json:

schema:

$ref: 'TS29503\_Nudm\_UEAU.yaml#/components/schemas/AuthEvent'

required: true

responses:

'204':

description: Upon success, an empty response body shall be returned

'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'

get:

summary: Retrieves the Individual Authentication Status of a UE

operationId: QueryIndividualAuthenticationStatus

tags:

- Individual AuthEvent (Document)

security:

- {}

- oAuth2ClientCredentials:

- nudr-dr

- oAuth2ClientCredentials:

- nudr-dr

- nudr-dr:subscription-data

parameters:

- name: ueId

in: path

description: UE id

required: true

schema:

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

- name: servingNetworkName

in: path

description: Serving Network Name

required: true

schema:

$ref: 'TS29503\_Nudm\_UEAU.yaml#/components/schemas/ServingNetworkName'

- name: fields

in: query

description: attributes to be retrieved

required: false

schema:

type: array

items:

type: string

minItems: 1

style: form

explode: false

- name: supported-features

description: Supported Features

in: query

schema:

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

responses:

'200':

description: Expected response to a valid request

content:

application/json:

schema:

$ref: 'TS29503\_Nudm\_UEAU.yaml#/components/schemas/AuthEvent'

'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'

delete:

summary: To remove the Individual Authentication Status of a UE

operationId: DeleteIndividualAuthenticationStatus

tags:

- Individual AuthEvent (Document)

security:

- {}

- oAuth2ClientCredentials:

- nudr-dr

- oAuth2ClientCredentials:

- nudr-dr

- nudr-dr:subscription-data

parameters:

- name: ueId

in: path

description: UE id

required: true

schema:

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

- name: servingNetworkName

in: path

description: Serving Network Name

required: true

schema:

$ref: 'TS29503\_Nudm\_UEAU.yaml#/components/schemas/ServingNetworkName'

responses:

'204':

description: Upon success, an empty response body shall be returned.

'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'

'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'

/subscription-data/{ueId}/ue-update-confirmation-data:

get:

summary: Retrieves the complete UE Update Confirmation data

operationId: QueryUeUpdConf

tags:

- UE Update Confirmation (Document)

security:

- {}

- oAuth2ClientCredentials:

- nudr-dr

- oAuth2ClientCredentials:

- nudr-dr

- nudr-dr:subscription-data

parameters:

- name: ueId

in: path

description: UE id

required: true

schema:

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

- name: supported-features

in: query

description: Supported Features

schema:

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

responses:

'200':

description: Expected response to a valid request

content:

application/json:

schema:

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

'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'

/subscription-data/{ueId}/ue-update-confirmation-data/sor-data:

put:

summary: >

To store the SoR acknowledgement information of a UE, ME support of SOR CMCI,

and ME support of SOR-SNPN-SI and ME support of SOR-SNPN-SI-LS.

operationId: CreateAuthenticationSoR

tags:

- Authentication SoR (Document)

security:

- {}

- oAuth2ClientCredentials:

- nudr-dr

- oAuth2ClientCredentials:

- nudr-dr

- nudr-dr:subscription-data

parameters:

- name: ueId

in: path

description: UE id

required: true

schema:

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

- name: supported-features

in: query

description: Supported Features

schema:

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

requestBody:

content:

application/json:

schema:

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

required: true

responses:

'204':

description: Expected response to a valid request

'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'

get:

summary: >

Retrieves the SoR acknowledgement information of a UE, ME support of SOR CMCI

ME support of SOR-SNPN-SI and ME support of SOR-SNPN-SI-LS

operationId: QueryAuthSoR

tags:

- Authentication SoR (Document)

security:

- {}

- oAuth2ClientCredentials:

- nudr-dr

- oAuth2ClientCredentials:

- nudr-dr

- nudr-dr:subscription-data

parameters:

- name: ueId

in: path

description: UE id

required: true

schema:

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

- name: supported-features

in: query

description: Supported Features

schema:

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

responses:

'200':

description: Expected response to a valid request

content:

application/json:

schema:

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

'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: >

Updates the ME support of SOR CMCI ME support of SOR-SNPN-SI

and ME support of SOR-SNPN-SI-LS information of a UE

operationId: UpdateAuthenticationSoR

tags:

- Authentication SoR (Document)

security:

- {}

- oAuth2ClientCredentials:

- nudr-dr

- oAuth2ClientCredentials:

- nudr-dr

- nudr-dr:subscription-data

parameters:

- name: ueId

in: path

required: true

schema:

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

- name: supported-features

in: query

description: Features required to be supported by the target NF

schema:

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

requestBody:

content:

application/json-patch+json:

schema:

type: array

items:

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

required: true

responses:

'204':

description: Expected response to a valid request

'200':

description: Expected response to a valid request

content:

application/json:

schema:

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

'400':

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

'401':

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

'403':

description: modification is rejected

content:

application/problem+json:

schema:

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

'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'

/subscription-data/{ueId}/ue-update-confirmation-data/upu-data:

put:

summary: To store the UPU acknowledgement information of a UE

operationId: CreateAuthenticationUPU

tags:

- Authentication UPU (Document)

security:

- {}

- oAuth2ClientCredentials:

- nudr-dr

- oAuth2ClientCredentials:

- nudr-dr

- nudr-dr:subscription-data

parameters:

- name: ueId

in: path

description: UE id

required: true

schema:

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

- name: supported-features

in: query

description: Supported Features

schema:

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

requestBody:

content:

application/json:

schema:

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

required: true

responses:

'204':

description: Expected response to a valid request

'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'

get:

summary: Retrieves the UPU acknowledgement information of a UE

operationId: QueryAuthUPU

tags:

- Authentication UPU (Document)

security:

- {}

- oAuth2ClientCredentials:

- nudr-dr

- oAuth2ClientCredentials:

- nudr-dr

- nudr-dr:subscription-data

parameters:

- name: ueId

in: path

description: UE id

required: true

schema:

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

- name: supported-features

in: query

description: Supported Features

schema:

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

responses:

'200':

description: Expected response to a valid request

content:

application/json:

schema:

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

'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'

/subscription-data/{ueId}/ue-update-confirmation-data/subscribed-snssais:

put:

summary: To store the NSSAI update acknowledgement information of a UE

operationId: CreateOrUpdateNssaiAck

tags:

- NSSAI update ack (Document)

security:

- {}

- oAuth2ClientCredentials:

- nudr-dr

- oAuth2ClientCredentials:

- nudr-dr

- nudr-dr:subscription-data

parameters:

- name: ueId

in: path

description: UE id

required: true

schema:

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

- name: supported-features

in: query

description: Supported Features

schema:

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

requestBody:

content:

application/json:

schema:

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

required: true

responses:

'204':

description: Expected response to a valid request

'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'

get:

summary: Retrieves the UPU acknowledgement information of a UE

operationId: QueryNssaiAck

tags:

- NSSAI ACK (Document)

security:

- {}

- oAuth2ClientCredentials:

- nudr-dr

- oAuth2ClientCredentials:

- nudr-dr

- nudr-dr:subscription-data

parameters:

- name: ueId

in: path

description: UE id

required: true

schema:

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

- name: supported-features

in: query

description: Supported Features

schema:

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

responses:

'200':

description: Expected response to a valid request

content:

application/json:

schema:

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

'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'

/subscription-data/{ueId}/ue-update-confirmation-data/subscribed-cag:

put:

summary: To store the CAG update acknowledgement information of a UE

operationId: CreateCagUpdateAck

tags:

- CAG update ack (Document)

security:

- {}

- oAuth2ClientCredentials:

- nudr-dr

- oAuth2ClientCredentials:

- nudr-dr

- nudr-dr:subscription-data

parameters:

- name: ueId

in: path

description: UE id

required: true

schema:

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

- name: supported-features

in: query

description: Supported Features

schema:

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

requestBody:

content:

application/json:

schema:

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

required: true

responses:

'204':

description: Expected response to a valid request

'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'

get:

summary: Retrieves the CAG acknowledgement information of a UE

operationId: QueryCagAck

tags:

- CAG ACK (Document)

security:

- {}

- oAuth2ClientCredentials:

- nudr-dr

- oAuth2ClientCredentials:

- nudr-dr

- nudr-dr:subscription-data

parameters:

- name: ueId

in: path

description: UE id

required: true

schema:

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

- name: supported-features

in: query

description: Supported Features

schema:

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

responses:

'200':

description: Expected response to a valid request

content:

application/json:

schema:

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

'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'

/subscription-data/{ueId}/{servingPlmnId}/provisioned-data:

get:

summary: Retrieve multiple provisioned data sets of a UE

operationId: QueryProvisionedData

tags:

- Provisioned Data (Document)

security:

- {}

- oAuth2ClientCredentials:

- nudr-dr

- oAuth2ClientCredentials:

- nudr-dr

- nudr-dr:subscription-data

parameters:

- name: ueId

in: path

description: UE id

required: true

schema:

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

- name: servingPlmnId

in: path

description: PLMN ID

required: true

schema:

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

- name: dataset-names

in: query

description: List of dataset names

style: form

explode: false

schema:

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

- name: adjacent-plmns

in: query

description: List of PLMNs adjacent to the UE's serving PLMN

schema:

type: array

items:

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

minItems: 1

style: form

explode: false

- name: single-nssai

in: query

content:

application/json:

schema:

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

description: single NSSAI

required: false

- name: dnn

in: query

description: DNN

required: false

schema:

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

- name: ext-group-ids

in: query

description: List of external VN group identifiers

schema:

type: array

items:

$ref: 'TS29503\_Nudm\_SDM.yaml#/components/schemas/ExtGroupId'

minItems: 1

style: form

explode: false

- name: uc-purpose

in: query

description: User consent purpose

schema:

$ref: 'TS29503\_Nudm\_SDM.yaml#/components/schemas/UcPurpose'

responses:

'200':

description: Expected response to a valid request

content:

application/json:

schema:

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

headers:

3gpp-Sbi-Etags:

description: A comma-separated list of ProvisionedDatasetName = Etag pairs

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'

'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'

/subscription-data/{ueId}/{servingPlmnId}/provisioned-data/am-data:

get:

summary: Retrieves the access and mobility subscription data of a UE

operationId: QueryAmData

tags:

- Access And Mobility Subscription Data (Document)

security:

- {}

- oAuth2ClientCredentials:

- nudr-dr

- oAuth2ClientCredentials:

- nudr-dr

- nudr-dr:subscription-data

parameters:

- name: ueId

in: path

description: UE id

required: true

schema:

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

- name: servingPlmnId

in: path

description: PLMN ID

required: true

schema:

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

- name: fields

in: query

description: attributes to be retrieved

required: false

schema:

type: array

items:

type: string

minItems: 1

style: form

explode: false

- name: supported-features

in: query

description: Supported Features

schema:

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

- name: adjacent-plmns

in: query

description: List of PLMNs adjacent to the UE's serving PLMN

schema:

type: array

items:

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

minItems: 1

style: form

explode: false

- name: If-None-Match

in: header

description: Validator for conditional requests, as described in RFC 9110, 13.1.29110, 13.1.2

schema:

type: string

- name: If-Modified-Since

in: header

description: Validator for conditional requests, as described in RFC 9110, 13.1.39110, 13.1.3

schema:

type: string

responses:

'200':

description: Expected response to a valid request

content:

application/json:

schema:

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

headers:

Cache-Control:

description: Cache-Control containing max-age, as described in RFC 91119111, 5.2

schema:

type: string

ETag:

description: Entity Tag, containing a strong validator, as described in RFC 9110, 8.8.39110, 8.8.3

schema:

type: string

Last-Modified:

description: Timestamp for last modification of the resource, as described in RFC 9110, 8.8.29110, 8.8.2

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'

'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'

/subscription-data/{ueId}/{servingPlmnId}/provisioned-data/smf-selection-subscription-data:

get:

summary: Retrieves the SMF selection subscription data of a UE

operationId: QuerySmfSelectData

tags:

- SMF Selection Subscription Data (Document)

security:

- {}

- oAuth2ClientCredentials:

- nudr-dr

- oAuth2ClientCredentials:

- nudr-dr

- nudr-dr:subscription-data

parameters:

- name: ueId

in: path

description: UE id

required: true

schema:

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

- name: servingPlmnId

in: path

description: PLMN ID

required: true

schema:

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

- name: fields

in: query

description: attributes to be retrieved

required: false

schema:

type: array

items:

type: string

minItems: 1

style: form

explode: false

- name: supported-features

in: query

description: Supported Features

schema:

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

- name: If-None-Match

in: header

description: Validator for conditional requests, as described in RFC 9110, 13.1.29110, 13.1.2

schema:

type: string

- name: If-Modified-Since

in: header

description: Validator for conditional requests, as described in RFC 9110, 13.1.39110, 13.1.3

schema:

type: string

responses:

'200':

description: Expected response to a valid request

content:

application/json:

schema:

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

headers:

Cache-Control:

description: Cache-Control containing max-age, as described in RFC 91119111, 5.2

schema:

type: string

ETag:

description: Entity Tag, containing a strong validator, as described in RFC 9110, 8.8.39110, 8.8.3

schema:

type: string

Last-Modified:

description: Timestamp for last modification of the resource, as described in RFC 9110, 8.8.29110, 8.8.2

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'

'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'

/subscription-data/{ueId}/{servingPlmnId}/provisioned-data/sm-data:

get:

summary: Retrieves the Session Management subscription data of a UE

operationId: QuerySmData

tags:

- Session Management Subscription Data

security:

- {}

- oAuth2ClientCredentials:

- nudr-dr

- oAuth2ClientCredentials:

- nudr-dr

- nudr-dr:subscription-data

parameters:

- name: ueId

in: path

description: UE id

required: true

schema:

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

- name: servingPlmnId

in: path

description: PLMN ID

required: true

schema:

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

- name: single-nssai

in: query

content:

application/json:

schema:

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

description: single NSSAI

required: false

- name: dnn

in: query

description: DNN

required: false

schema:

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

- name: fields

in: query

description: attributes to be retrieved

required: false

schema:

type: array

items:

type: string

minItems: 1

style: form

explode: false

- name: supported-features

in: query

description: Supported Features

schema:

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

- name: If-None-Match

in: header

description: Validator for conditional requests, as described in RFC 9110, 13.1.29110, 13.1.2

schema:

type: string

- name: If-Modified-Since

in: header

description: Validator for conditional requests, as described in RFC 9110, 13.1.39110, 13.1.3

schema:

type: string

responses:

'200':

description: Expected response to a valid request

content:

application/json:

schema:

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

headers:

Cache-Control:

description: Cache-Control containing max-age, as described in RFC 91119111, 5.2

schema:

type: string

ETag:

description: Entity Tag, containing a strong validator, as described in RFC 9110, 8.8.39110, 8.8.3

schema:

type: string

Last-Modified:

description: Timestamp for last modification of the resource, as described in RFC 9110, 8.8.29110, 8.8.2

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'

'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'

/subscription-data/{ueId}/context-data/amf-3gpp-access:

get:

summary: Retrieves the AMF context data of a UE using 3gpp access

operationId: QueryAmfContext3gpp

tags:

- AMF 3GPP Access Registration (Document)

security:

- {}

- oAuth2ClientCredentials:

- nudr-dr

- oAuth2ClientCredentials:

- nudr-dr

- nudr-dr:subscription-data

parameters:

- name: ueId

in: path

description: UE id

required: true

schema:

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

- name: fields

in: query

description: attributes to be retrieved

required: false

schema:

type: array

items:

type: string

minItems: 1

style: form

explode: false

- name: supported-features

in: query

description: Supported Features

schema:

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

responses:

'200':

description: Expected response to a valid request

content:

application/json:

schema:

$ref: '#/components/schemas/Amf3GppAccessRegistration'

'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'

put:

summary: To store the AMF context data of a UE using 3gpp access in the UDR

operationId: CreateAmfContext3gpp

tags:

- AMF 3GPP Access Registration (Document)

security:

- {}

- oAuth2ClientCredentials:

- nudr-dr

- oAuth2ClientCredentials:

- nudr-dr

- nudr-dr:subscription-data

- oAuth2ClientCredentials:

- nudr-dr

- nudr-dr:subscription-data:registrations:write

parameters:

- name: ueId

in: path

description: UE id

required: true

schema:

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

requestBody:

content:

application/json:

schema:

$ref: '#/components/schemas/Amf3GppAccessRegistration'

required: true

responses:

'204':

description: Upon success, an empty response body shall be returned

'201':

description: Created

content:

application/json:

schema:

$ref: '#/components/schemas/Amf3GppAccessRegistration'

headers:

Location:

description: 'Contains the URI of the newly created resource, according to the structure: {apiRoot}/nudr-dr/<apiVersion>/subscription-data/{ueId}/context-data/amf-3gpp-access'

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'

patch:

summary: To modify the AMF context data of a UE using 3gpp access in the UDR

operationId: AmfContext3gpp

tags:

- AMF 3GPP Access Registration (Document)

security:

- {}

- oAuth2ClientCredentials:

- nudr-dr

- oAuth2ClientCredentials:

- nudr-dr

- nudr-dr:subscription-data

- oAuth2ClientCredentials:

- nudr-dr

- nudr-dr:subscription-data:registrations:write

parameters:

- name: ueId

in: path

description: UE id

required: true

schema:

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

- name: supported-features

in: query

description: Features required to be supported by the target NF

schema:

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

requestBody:

content:

application/json-patch+json:

schema:

type: array

items:

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

required: true

responses:

'204':

description: Expected response to a valid request

'200':

description: Expected response to a valid request

content:

application/json:

schema:

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

'400':

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

'401':

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

'403':

description: modification is rejected

content:

application/problem+json:

schema:

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

'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'

/subscription-data/{ueId}/context-data/amf-non-3gpp-access:

get:

summary: Retrieves the AMF context data of a UE using non-3gpp access

operationId: QueryAmfContextNon3gpp

tags:

- AMF Non-3GPP Access Registration (Document)

security:

- {}

- oAuth2ClientCredentials:

- nudr-dr

- oAuth2ClientCredentials:

- nudr-dr

- nudr-dr:subscription-data

parameters:

- name: ueId

in: path

description: UE id

required: true

schema:

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

- name: fields

in: query

description: attributes to be retrieved

required: false

schema:

type: array

items:

type: string

minItems: 1

style: form

explode: false

- name: supported-features

in: query

description: Supported Features

schema:

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

responses:

'200':

description: Expected response to a valid request

content:

application/json:

schema:

$ref: '#/components/schemas/AmfNon3GppAccessRegistration'

'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'

put:

summary: To store the AMF context data of a UE using non-3gpp access in the UDR

operationId: CreateAmfContextNon3gpp

tags:

- AMF Non-3GPP Access Registration (Document)

security:

- {}

- oAuth2ClientCredentials:

- nudr-dr

- oAuth2ClientCredentials:

- nudr-dr

- nudr-dr:subscription-data

- oAuth2ClientCredentials:

- nudr-dr

- nudr-dr:subscription-data:registrations:write

parameters:

- name: ueId

in: path

description: UE id

required: true

schema:

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

requestBody:

content:

application/json:

schema:

$ref: '#/components/schemas/AmfNon3GppAccessRegistration'

required: true

responses:

'204':

description: Upon success, an empty response body shall be returned

'201':

description: Created

content:

application/json:

schema:

$ref: '#/components/schemas/Amf3GppAccessRegistration'

headers:

Location:

description: 'Contains the URI of the newly created resource, according to the structure: {apiRoot}/nudr-dr/<apiVersion>/subscription-data/{ueId}/context-data/amf-non-3gpp-access'

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'

patch:

summary: To modify the AMF context data of a UE using non 3gpp access in the UDR

operationId: AmfContextNon3gpp

tags:

- AMF Non-3GPP Access Registration (Document)

security:

- {}

- oAuth2ClientCredentials:

- nudr-dr

- oAuth2ClientCredentials:

- nudr-dr

- nudr-dr:subscription-data

- oAuth2ClientCredentials:

- nudr-dr

- nudr-dr:subscription-data:registrations:write

parameters:

- name: ueId

in: path

description: UE id

required: true

schema:

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

- name: supported-features

in: query

description: Features required to be supported by the target NF

schema:

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

requestBody:

content:

application/json-patch+json:

schema:

type: array

items:

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

required: true

responses:

'204':

description: Expected response to a valid request

'200':

description: Expected response to a valid request

content:

application/json:

schema:

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

'400':

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

'401':

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

'403':

description: modification is rejected

content:

application/problem+json:

schema:

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

'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'

/subscription-data/{ueId}/context-data/smf-registrations:

get:

summary: Retrieves the SMF registration list of a UE

operationId: QuerySmfRegList

tags:

- SMF Registrations (Collection)

security:

- {}

- oAuth2ClientCredentials:

- nudr-dr

- oAuth2ClientCredentials:

- nudr-dr

- nudr-dr:subscription-data

parameters:

- name: ueId

in: path

description: UE id

required: true

schema:

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

- name: supported-features

in: query

description: Supported Features

schema:

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

responses:

'200':

description: Expected response to a valid request

content:

application/json:

schema:

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

'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'

/subscription-data/{ueId}/context-data/smf-registrations/{pduSessionId}:

get:

summary: Retrieves the individual SMF registration of a UE

operationId: QuerySmfRegistration

tags:

- SMF Registration (Document)

security:

- {}

- oAuth2ClientCredentials:

- nudr-dr

- oAuth2ClientCredentials:

- nudr-dr

- nudr-dr:subscription-data

parameters:

- name: ueId

in: path

description: UE id

required: true

schema:

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

- name: pduSessionId

in: path

description: PDU session id

required: true

schema:

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

- name: fields

in: query

description: attributes to be retrieved

required: false

schema:

type: array

items:

type: string

minItems: 1

style: form

explode: false

- name: supported-features

in: query

description: Supported Features

schema:

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

responses:

'200':

description: Expected response to a valid request

content:

application/json:

schema:

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

'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'

put:

summary: To create an individual SMF context data of a UE in the UDR

operationId: CreateOrUpdateSmfRegistration

tags:

- SMF Registration (Document)

security:

- {}

- oAuth2ClientCredentials:

- nudr-dr

- oAuth2ClientCredentials:

- nudr-dr

- nudr-dr:subscription-data

- oAuth2ClientCredentials:

- nudr-dr

- nudr-dr:subscription-data:registrations:write

parameters:

- name: ueId

in: path

description: UE id

required: true

schema:

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

- name: pduSessionId

in: path

description: PDU session id

required: true

schema:

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

requestBody:

content:

application/json:

schema:

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

required: true

responses:

'201':

description: Upon success, a response body containing a representation of the created Individual SmfRegistration resource shall be returned

content:

application/json:

schema:

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

headers:

Location:

description: 'Contains the URI of the newly created resource, according to the structure: {apiRoot}/nudr-dr/<apiVersion>/subscription-data/{ueId}/context-data/smf-registrations/{pduSessionId}'

required: true

schema:

type: string

'204':

description: No content

'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:

staleCheckNotification:

'{request.body#/udmStaleCheckCallbackUri}':

post:

requestBody:

required: true

content:

application/json:

schema:

$ref: 'TS29503\_Nudm\_UECM.yaml#/components/schemas/SmfRegistrationInfo'

responses:

'204':

description: Successful Notification response

'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:

description: Unexpected error

delete:

summary: To remove an individual SMF context data of a UE the UDR

operationId: DeleteSmfRegistration

tags:

- SMF Registration (Document)

security:

- {}

- oAuth2ClientCredentials:

- nudr-dr

- oAuth2ClientCredentials:

- nudr-dr

- nudr-dr:subscription-data

- oAuth2ClientCredentials:

- nudr-dr

- nudr-dr:subscription-data:registrations:write

parameters:

- name: ueId

in: path

description: UE id

required: true

schema:

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

- name: pduSessionId

in: path

description: PDU session id

required: true

schema:

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

responses:

'204':

description: Upon success, an empty response body shall be returned.

'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'

'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: To modify the SMF context data of a UE in the UDR

operationId: UpdateSmfContext

tags:

- SMF Registration (Document)

security:

- {}

- oAuth2ClientCredentials:

- nudr-dr

- oAuth2ClientCredentials:

- nudr-dr

- nudr-dr:subscription-data

- oAuth2ClientCredentials:

- nudr-dr

- nudr-dr:subscription-data:registrations:write

parameters:

- name: ueId

in: path

description: UE id

required: true

schema:

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

- name: pduSessionId

in: path

description: PDU session id

required: true

schema:

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

- name: supported-features

in: query

description: Features required to be supported by the target NF

schema:

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

requestBody:

content:

application/json-patch+json:

schema:

type: array

items:

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

required: true

responses:

'204':

description: Expected response to a valid request

'200':

description: Expected response to a valid request

content:

application/json:

schema:

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

'400':

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

'401':

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

'403':

description: modification is rejected

content:

application/problem+json:

schema:

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

'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'

/subscription-data/{ueId}/operator-specific-data:

get:

summary: Retrieves the operator specific data of a UE

operationId: QueryOperSpecData

tags:

- Operator-Specific Data Container (Document)

security:

- {}

- oAuth2ClientCredentials:

- nudr-dr

- oAuth2ClientCredentials:

- nudr-dr

- nudr-dr:subscription-data

parameters:

- name: ueId

in: path

description: UE id

required: true

schema:

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

- name: fields

in: query

description: attributes to be retrieved

required: false

schema:

type: array

items:

type: string

minItems: 1

style: form

explode: false

- name: supported-features

in: query

description: Supported Features

schema:

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

- name: If-None-Match

in: header

description: Validator for conditional requests, as described in RFC 9110, 13.1.2

schema:

type: string

- name: If-Modified-Since

in: header

description: Validator for conditional requests, as described in RFC 9110, 13.1.3

schema:

type: string

responses:

'200':

description: Expected response to a valid request

content:

application/json:

schema:

type: object

description: A map(list of key-value pairs) where operator specific data element name serves as key

additionalProperties:

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

headers:

Cache-Control:

description: Cache-Control containing max-age, as described in RFC 9111, 5.2

schema:

type: string

ETag:

description: Entity Tag, containing a strong validator, as described in RFC 9110, 8.8.3

schema:

type: string

Last-Modified:

description: Timestamp for last modification of the resource, as described in RFC 9110, 8.8.2

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'

'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: To modify operator specific data of a UE

operationId: ModifyOperSpecData

tags:

- Operator-Specific Data Container (Document)

security:

- {}

- oAuth2ClientCredentials:

- nudr-dr

- oAuth2ClientCredentials:

- nudr-dr

- nudr-dr:subscription-data

parameters:

- name: ueId

in: path

description: UE id

required: true

schema:

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

- name: supported-features

in: query

description: Features required to be supported by the target NF

schema:

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

requestBody:

content:

application/json-patch+json:

schema:

type: array

items:

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

required: true

responses:

'204':

description: Expected response to a valid request

'200':

description: Expected response to a valid request

content:

application/json:

schema:

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

'400':

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

'401':

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

'403':

description: modification is rejected

content:

application/problem+json:

schema:

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

'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'

put:

summary: To create an operator-specific data resource of a UE

operationId: CreateOperSpecData

tags:

- Operator-Specific Data Container (Document)

security:

- {}

- oAuth2ClientCredentials:

- nudr-dr

- oAuth2ClientCredentials:

- nudr-dr

- nudr-dr:subscription-data

parameters:

- name: ueId

in: path

description: UE id

required: true

schema:

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

- name: supported-features

in: query

description: Supported Features

schema:

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

requestBody:

content:

application/json:

schema:

type: object

description: A map (list of key-value pairs) where operator specific data element name serves as key

additionalProperties:

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

required: true

responses:

'201':

description: Upon success, a response body containing a representation of the created Operator Specific Data resource shall be returned

content:

application/json:

schema:

type: object

description: A map (list of key-value pairs) where operator specific data element name serves as key

additionalProperties:

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

headers:

Location:

description: 'Contains the URI of the newly created resource, according to the structure: {apiRoot}/nudr-dr/<apiVersion>/subscription-data/{ueId}/operator-specific-data'

required: true

schema:

type: string

'204':

description: No content

'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'

delete:

summary: To remove an operator-specific data resource of a UE

operationId: DeleteOperSpecData

tags:

- Operator-Specific Data Container (Document)

security:

- {}

- oAuth2ClientCredentials:

- nudr-dr

- oAuth2ClientCredentials:

- nudr-dr

- nudr-dr:subscription-data

parameters:

- name: ueId

in: path

description: UE id

required: true

schema:

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

responses:

'204':

description: Upon success, an empty response body shall be returned.

'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'

'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'

/subscription-data/{ueId}/context-data/smsf-3gpp-access:

put:

summary: Create the SMSF context data of a UE via 3GPP access

operationId: CreateSmsfContext3gpp

tags:

- SMSF 3GPP Registration (Document)

security:

- {}

- oAuth2ClientCredentials:

- nudr-dr

- oAuth2ClientCredentials:

- nudr-dr

- nudr-dr:subscription-data

- oAuth2ClientCredentials:

- nudr-dr

- nudr-dr:subscription-data:registrations:write

parameters:

- name: ueId

in: path

description: UE id

required: true

schema:

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

requestBody:

content:

application/json:

schema:

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

required: true

responses:

'204':

description: Upon success, an empty response body shall be returned

'201':

description: Created

content:

application/json:

schema:

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

headers:

Location:

description: 'Contains the URI of the newly created resource, according to the structure: {apiRoot}/nudr-dr/<apiVersion>/subscription-data/{ueId}/context-data/smsf-3gpp-access'

required: true

schema:

type: string

'200':

description: Updated

content:

application/json:

schema:

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

'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'

delete:

summary: To remove the SMSF context data of a UE via 3GPP access

operationId: DeleteSmsfContext3gpp

tags:

- SMSF 3GPP Registration (Document)

security:

- {}

- oAuth2ClientCredentials:

- nudr-dr

- oAuth2ClientCredentials:

- nudr-dr

- nudr-dr:subscription-data

- oAuth2ClientCredentials:

- nudr-dr

- nudr-dr:subscription-data:registrations:write

parameters:

- name: ueId

in: path

description: UE id

required: true

schema:

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

responses:

'204':

description: Upon success, an empty response body shall be returned

'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'

'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'

get:

summary: Retrieves the SMSF context data of a UE using 3gpp access

operationId: QuerySmsfContext3gpp

tags:

- SMSF 3GPP Registration (Document)

security:

- {}

- oAuth2ClientCredentials:

- nudr-dr

- oAuth2ClientCredentials:

- nudr-dr

- nudr-dr:subscription-data

parameters:

- name: ueId

in: path

description: UE id

required: true

schema:

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

- name: fields

in: query

description: attributes to be retrieved

required: false

schema:

type: array

items:

type: string

minItems: 1

style: form

explode: false

- name: supported-features

in: query

description: Supported Features

schema:

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

responses:

'200':

description: Expected response to a valid request

content:

application/json:

schema:

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

'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'

/subscription-data/{ueId}/context-data/smsf-non-3gpp-access:

put:

summary: Create the SMSF context data of a UE via non-3GPP access

operationId: CreateSmsfContextNon3gpp

tags:

- SMSF Non-3GPP Registration (Document)

security:

- {}

- oAuth2ClientCredentials:

- nudr-dr

- oAuth2ClientCredentials:

- nudr-dr

- nudr-dr:subscription-data

- oAuth2ClientCredentials:

- nudr-dr

- nudr-dr:subscription-data:registrations:write

parameters:

- name: ueId

in: path

description: UE id

required: true

schema:

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

requestBody:

content:

application/json:

schema:

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

required: true

responses:

'204':

description: Upon success, an empty response body shall be returned

'201':

description: Created

content:

application/json:

schema:

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

headers:

Location:

description: 'Contains the URI of the newly created resource, according to the structure: {apiRoot}/nudr-dr/<apiVersion>/subscription-data/{ueId}/context-data/smsf-non-3gpp-access'

required: true

schema:

type: string

'200':

description: Updated

content:

application/json:

schema:

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

'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'

delete:

summary: To remove the SMSF context data of a UE via non-3GPP access

operationId: DeleteSmsfContextNon3gpp

tags:

- SMSF Non-3GPP Registration (Document)

security:

- {}

- oAuth2ClientCredentials:

- nudr-dr

- oAuth2ClientCredentials:

- nudr-dr

- nudr-dr:subscription-data

- oAuth2ClientCredentials:

- nudr-dr

- nudr-dr:subscription-data:registrations:write

parameters:

- name: ueId

in: path

description: UE id

required: true

schema:

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

responses:

'204':

description: Upon success, an empty response body shall be returned

'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'

'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'

get:

summary: Retrieves the SMSF context data of a UE using non-3gpp access

operationId: QuerySmsfContextNon3gpp

tags:

- SMSF Non-3GPP Registration (Document)

security:

- {}

- oAuth2ClientCredentials:

- nudr-dr

- oAuth2ClientCredentials:

- nudr-dr

- nudr-dr:subscription-data

parameters:

- name: ueId

in: path

description: UE id

required: true

schema:

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

- name: fields

in: query

description: attributes to be retrieved

required: false

schema:

type: array

items:

type: string

minItems: 1

style: form

explode: false

- name: supported-features

in: query

description: Supported Features

schema:

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

responses:

'200':

description: Expected response to a valid request

content:

application/json:

schema:

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

'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'

/subscription-data/{ueId}/context-data/ip-sm-gw:

put:

summary: Create the IP-SM-GW context data of a UE

operationId: CreateIpSmGwContext

tags:

- IP-SM-GW Registration (Document)

security:

- {}

- oAuth2ClientCredentials:

- nudr-dr

- oAuth2ClientCredentials:

- nudr-dr

- nudr-dr:subscription-data

- oAuth2ClientCredentials:

- nudr-dr

- nudr-dr:subscription-data:registrations:write

parameters:

- name: ueId

in: path

description: UE id

required: true

schema:

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

requestBody:

content:

application/json:

schema:

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

required: true

responses:

'204':

description: Upon success, an empty response body shall be returned

'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'

delete:

summary: To remove the IP-SM-GW context data of a UE

operationId: DeleteIpSmGwContext

tags:

- IP-SM-GW Registration (Document)

security:

- {}

- oAuth2ClientCredentials:

- nudr-dr

- oAuth2ClientCredentials:

- nudr-dr

- nudr-dr:subscription-data

- oAuth2ClientCredentials:

- nudr-dr

- nudr-dr:subscription-data:registrations:write

parameters:

- name: ueId

in: path

description: UE id

required: true

schema:

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

responses:

'204':

description: Upon success, an empty response body shall be returned

'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'

'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: Modify the IP-SM-GW context data of a UE

operationId: ModifyIpSmGwContext

tags:

- IP-SM-GW Registration (Document)

security:

- {}

- oAuth2ClientCredentials:

- nudr-dr

- oAuth2ClientCredentials:

- nudr-dr

- nudr-dr:subscription-data

- oAuth2ClientCredentials:

- nudr-dr

- nudr-dr:subscription-data:registrations:write

parameters:

- name: ueId

in: path

description: UE id

required: true

schema:

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

requestBody:

content:

application/json-patch+json:

schema:

type: array

items:

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

minItems: 1

required: true

responses:

'204':

description: Successful response

'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'

get:

summary: Retrieves the IP-SM-GW context data of a UE

operationId: QueryIpSmGwContext

tags:

- IP-SM-GW Registration (Document)

security:

- {}

- oAuth2ClientCredentials:

- nudr-dr

- oAuth2ClientCredentials:

- nudr-dr

- nudr-dr:subscription-data

parameters:

- name: ueId

in: path

description: UE id

required: true

schema:

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

- name: fields

in: query

description: attributes to be retrieved

required: false

schema:

type: array

items:

type: string

minItems: 1

style: form

explode: false

- name: supported-features

in: query

description: Supported Features

schema:

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

responses:

'200':

description: Expected response to a valid request

content:

application/json:

schema:

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

'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'

/subscription-data/{ueId}/context-data/mwd:

put:

summary: Create the Message Waiting Data of the UE

operationId: CreateMessageWaitingData

tags:

- Message Waiting Data (Document)

security:

- {}

- oAuth2ClientCredentials:

- nudr-dr

- oAuth2ClientCredentials:

- nudr-dr

- nudr-dr:subscription-data

parameters:

- name: ueId

in: path

description: UE id

required: true

schema:

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

requestBody:

content:

application/json:

schema:

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

required: true

responses:

'201':

description: Created

content:

application/json:

schema:

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

headers:

Location:

description: 'Contains the URI of the newly created resource, according to the structure: {apiRoot}/nudr-dr/<apiVersion>/subscription-data/{ueId}/context-data/mwd'

required: true

schema:

type: string

'204':

description: Upon success, an empty response body shall be returned

'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:

description: Unexpected error

delete:

summary: To remove the Message Waiting Data of the UE

operationId: DeleteMessageWaitingData

tags:

- Message Waiting Data (Document)

security:

- {}

- oAuth2ClientCredentials:

- nudr-dr

- oAuth2ClientCredentials:

- nudr-dr

- nudr-dr:subscription-data

parameters:

- name: ueId

in: path

description: UE id

required: true

schema:

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

responses:

'204':

description: Upon success, an empty response body shall be returned

'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'

'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: Modify the Message Waiting Data of the UE

operationId: ModifyMessageWaitingData

tags:

- Message Waiting Data (Document)

security:

- {}

- oAuth2ClientCredentials:

- nudr-dr

- oAuth2ClientCredentials:

- nudr-dr

- nudr-dr:subscription-data

parameters:

- name: ueId

in: path

description: UE id

required: true

schema:

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

requestBody:

content:

application/json-patch+json:

schema:

type: array

items:

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

minItems: 1

required: true

responses:

'204':

description: Successful response

'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'

get:

summary: Retrieves the Message Waiting Data of the UE

operationId: QueryMessageWaitingData

tags:

- Message Waiting Data (Document)

security:

- {}

- oAuth2ClientCredentials:

- nudr-dr

- oAuth2ClientCredentials:

- nudr-dr

- nudr-dr:subscription-data

parameters:

- name: ueId

in: path

description: UE id

required: true

schema:

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

- name: fields

in: query

description: attributes to be retrieved

required: false

schema:

type: array

items:

type: string

minItems: 1

style: form

explode: false

- name: supported-features

in: query

description: Supported Features

schema:

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

responses:

'200':

description: Expected response to a valid request

content:

application/json:

schema:

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

'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'

/subscription-data/{ueId}/{servingPlmnId}/provisioned-data/sms-mng-data:

get:

summary: Retrieves the SMS management subscription data of a UE

operationId: QuerySmsMngData

tags:

- SMS Management Subscription Data (Document)

security:

- {}

- oAuth2ClientCredentials:

- nudr-dr

- oAuth2ClientCredentials:

- nudr-dr

- nudr-dr:subscription-data

parameters:

- name: ueId

in: path

description: UE id

required: true

schema:

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

- name: servingPlmnId

in: path

description: PLMN ID

required: true

schema:

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

- name: supported-features

in: query

description: Supported Features

schema:

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

- name: If-None-Match

in: header

description: Validator for conditional requests, as described in RFC 9110, 13.1.2

schema:

type: string

- name: If-Modified-Since

in: header

description: Validator for conditional requests, as described in RFC 9110, 13.1.3

schema:

type: string

responses:

'200':

description: Expected response to a valid request

content:

application/json:

schema:

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

headers:

Cache-Control:

description: Cache-Control containing max-age, as described in RFC 9111, 5.2

schema:

type: string

ETag:

description: Entity Tag, containing a strong validator, as described in RFC 9110, 8.8.3

schema:

type: string

Last-Modified:

description: Timestamp for last modification of the resource, as described in RFC 9110, 8.8.2

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'

'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'

/subscription-data/{ueId}/{servingPlmnId}/provisioned-data/sms-data:

get:

summary: Retrieves the SMS subscription data of a UE

operationId: QuerySmsData

tags:

- SMS Subscription Data (Document)

security:

- {}

- oAuth2ClientCredentials:

- nudr-dr

- oAuth2ClientCredentials:

- nudr-dr

- nudr-dr:subscription-data

parameters:

- name: ueId

in: path

description: UE id

required: true

schema:

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

- name: servingPlmnId

in: path

description: PLMN ID

required: true

schema:

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

- name: supported-features

in: query

description: Supported Features

schema:

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

- name: If-None-Match

in: header

description: Validator for conditional requests, as described in RFC 9110, 13.1.2

schema:

type: string

- name: If-Modified-Since

in: header

description: Validator for conditional requests, as described in RFC 9110, 13.1.3

schema:

type: string

responses:

'200':

description: Expected response to a valid request

content:

application/json:

schema:

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

headers:

Cache-Control:

description: Cache-Control containing max-age, as described in RFC 9111, 5.2

schema:

type: string

ETag:

description: Entity Tag, containing a strong validator, as described in RFC 9110, 8.8.3

schema:

type: string

Last-Modified:

description: Timestamp for last modification of the resource, as described in RFC 9110, 8.8.2

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'

'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'

/subscription-data/{ueId}/pp-data:

get:

summary: Read the profile of a given UE

operationId: GetppData

tags:

- Parameter Provision (Document)

security:

- {}

- oAuth2ClientCredentials:

- nudr-dr

- oAuth2ClientCredentials:

- nudr-dr

- nudr-dr:subscription-data

parameters:

- name: ueId

in: path

description: pp data for a UE

required: true

schema:

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

- name: supported-features

in: query

description: Supported Features

schema:

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

- name: If-None-Match

in: header

description: Validator for conditional requests, as described in RFC 9110, 13.1.2

schema:

type: string

- name: If-Modified-Since

in: header

description: Validator for conditional requests, as described in RFC 9110, 13.1.3

schema:

type: string

responses:

'200':

description: Expected response to a valid request

content:

application/json:

schema:

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

headers:

Cache-Control:

description: Cache-Control containing max-age, as described in RFC 9111, 5.2

schema:

type: string

ETag:

description: Entity Tag, containing a strong validator, as described in RFC 9110, 8.8.3

schema:

type: string

Last-Modified:

description: Timestamp for last modification of the resource, as described in RFC 9110, 8.8.2

schema:

type: string

'400':

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

'401':

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

'403':

description: Forbidden

content:

application/problem+json:

schema:

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

'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: modify the provisioned parameter data

operationId: ModifyPpData

tags:

- ProvisionedParameterData (Document)

security:

- {}

- oAuth2ClientCredentials:

- nudr-dr

- oAuth2ClientCredentials:

- nudr-dr

- nudr-dr:subscription-data

parameters:

- name: ueId

in: path

description: pp data for a UE

required: true

schema:

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

- name: supported-features

in: query

description: Features required to be supported by the target NF

schema:

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

requestBody:

content:

application/json-patch+json:

schema:

type: array

items:

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

required: true

responses:

'204':

description: Expected response to a valid request

'200':

description: Expected response to a valid request

content:

application/json:

schema:

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

'400':

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

'401':

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

'403':

description: modification is rejected

content:

application/problem+json:

schema:

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

'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'

/subscription-data/{ueId}/pp-profile-data:

get:

summary: Retrieves the parameter provision profile data of a UE

operationId: QueryPPData

tags:

- Parameter Provision profile Data (Document)

security:

- {}

- oAuth2ClientCredentials:

- nudr-dr

- oAuth2ClientCredentials:

- nudr-dr

- nudr-dr:subscription-data

parameters:

- name: ueId

in: path

description: UE id

required: true

schema:

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

- name: supported-features

in: query

description: Supported Features

schema:

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

responses:

'200':

description: Expected response to a valid request

content:

application/json:

schema:

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

'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'

/subscription-data/{ueId}/pp-data-store/{afInstanceId}:

put:

summary: create a Provisioning Parameter Data Entry

operationId: Create PP Data Entry

tags:

- ProvisionedParameterDataEntry (Document)

security:

- {}

- oAuth2ClientCredentials:

- nudr-dr

- oAuth2ClientCredentials:

- nudr-dr

- nudr-dr:subscription-data

parameters:

- name: ueId

in: path

description: Identifier of the UE

required: true

schema:

anyOf:

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

- $ref: 'TS29503\_Nudm\_SDM.yaml#/components/schemas/ExtGroupId'

- type: string

pattern: '^anyUE$'

- name: afInstanceId

in: path

description: Application Function Instance Identifier

required: true

schema:

type: string

requestBody:

content:

application/json:

schema:

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

required: true

responses:

'201':

description: Indicating a successful creation of the resource.

content:

application/json:

schema:

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

'204':

description: Indicating a successful creation of the resource.

'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:

description: Unexpected error

delete:

summary: Delete a Provisioning Parameter Data Entry

operationId: Delete PP Data Entry

tags:

- ProvisionedParameterDataEntry (Document)

security:

- {}

- oAuth2ClientCredentials:

- nudr-dr

- oAuth2ClientCredentials:

- nudr-dr

- nudr-dr:subscription-data

parameters:

- name: ueId

in: path

description: Identifier of the UE

required: true

schema:

anyOf:

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

- $ref: 'TS29503\_Nudm\_SDM.yaml#/components/schemas/ExtGroupId'

- type: string

pattern: '^anyUE$'

- name: afInstanceId

in: path

description: Application Function Instance Identifier

required: true

schema:

type: string

responses:

'204':

description: Expected response to a valid request

'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'

'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:

description: Unexpected error

get:

summary: get a Parameter Provisioning Data Entry

operationId: Get PP Data Entry

tags:

- ProvisionedParameterDataEntry (Document)

parameters:

- name: ueId

in: path

description: Identifier of the UE

required: true

schema:

anyOf:

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

- $ref: 'TS29503\_Nudm\_SDM.yaml#/components/schemas/ExtGroupId'

- type: string

pattern: '^anyUE$'

- name: afInstanceId

in: path

description: Application Function Instance Identifier

required: true

schema:

type: string

- name: supported-features

in: query

description: Features required to be supported by the target NF

schema:

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

responses:

'200':

description: Expected response to a valid request

content:

application/json:

schema:

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

'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:

description: Unexpected error

/subscription-data/{ueId}/pp-data-store:

get:

summary: get a list of Parameter Provisioning Data Entries

operationId: Get Multiple PP Data Entries

tags:

- ProvisionedParameterDataEntries (Collection)

parameters:

- name: ueId

in: path

description: Identifier of the UE

required: true

schema:

anyOf:

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

- $ref: 'TS29503\_Nudm\_SDM.yaml#/components/schemas/ExtGroupId'

- type: string

pattern: '^anyUE$'

- name: supported-features

in: query

description: Features required to be supported by the target NF

schema:

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

responses:

'200':

description: Expected response to a valid request

content:

application/json:

schema:

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

'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:

description: Unexpected error

/subscription-data/{ueId}/context-data/ee-subscriptions:

get:

summary: Retrieves the ee subscriptions of a UE

operationId: Queryeesubscriptions

tags:

- Event Exposure Subscriptions (Collection)

security:

- {}

- oAuth2ClientCredentials:

- nudr-dr

- oAuth2ClientCredentials:

- nudr-dr

- nudr-dr:subscription-data

parameters:

- name: ueId

in: path

description: UE id

required: true

schema:

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

- name: supported-features

in: query

description: Supported Features

schema:

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

- name: event-types

in: query

required: false

description: Event Types

schema:

type: array

items:

$ref: 'TS29503\_Nudm\_EE.yaml#/components/schemas/EventType'

minItems: 1

style: form

explode: false

- name: nf-identifiers

in: query

description: NF Identifiers

schema:

type: array

items:

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

minItems: 1

style: form

explode: false

responses:

'200':

description: Expected response to a valid request

content:

application/json:

schema:

type: array

items:

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

'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'

post:

summary: Create individual EE subscription

operationId: CreateEeSubscriptions

tags:

- Event Exposure Subscriptions (Collection)

security:

- {}

- oAuth2ClientCredentials:

- nudr-dr

- oAuth2ClientCredentials:

- nudr-dr

- nudr-dr:subscription-data

parameters:

- name: ueId

in: path

description: UE ID

required: true

schema:

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

requestBody:

content:

application/json:

schema:

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

required: true

responses:

'201':

description: Expected response to a valid request

content:

application/json:

schema:

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

headers:

Location:

description: 'Contains the URI of the newly created resource, according to the structure: {apiRoot}/nudr-dr/<apiVersion>/subscription-data/{ueId}/context-data/ee-subscriptions/{subsId}'

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'

/subscription-data/{ueId}/context-data/ee-subscriptions/{subsId}:

put:

summary: Update an individual ee subscriptions of a UE

operationId: UpdateEesubscriptions

tags:

- Event Exposure Subscription (Document)

security:

- {}

- oAuth2ClientCredentials:

- nudr-dr

- oAuth2ClientCredentials:

- nudr-dr

- nudr-dr:subscription-data

parameters:

- name: ueId

in: path

required: true

schema:

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

- name: subsId

in: path

required: true

schema:

type: string

requestBody:

content:

application/json:

schema:

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

required: true

responses:

'204':

description: Upon success, an empty response body shall be returned

'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':

description: update of non-existing resource is rejected

content:

application/problem+json:

schema:

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

'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'

delete:

summary: Deletes a eeSubscription

operationId: RemoveeeSubscriptions

tags:

- Event Exposure Subscription (Document)

security:

- {}

- oAuth2ClientCredentials:

- nudr-dr

- oAuth2ClientCredentials:

- nudr-dr

- nudr-dr:subscription-data

parameters:

- name: ueId

in: path

required: true

schema:

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

- name: subsId

in: path

required: true

description: Unique ID of the subscription to remove

schema:

type: string

responses:

'204':

description: Expected response to a successful subscription removal

'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'

'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: Modify an individual ee subscription of a UE

operationId: ModifyEesubscription

tags:

- Event Exposure Subscription (Document)

security:

- {}

- oAuth2ClientCredentials:

- nudr-dr

- oAuth2ClientCredentials:

- nudr-dr

- nudr-dr:subscription-data

parameters:

- name: ueId

in: path

description: UE id

required: true

schema:

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

- name: subsId

in: path

required: true

schema:

type: string

- name: supported-features

in: query

description: Features required to be supported by the target NF

schema:

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

requestBody:

content:

application/json-patch+json:

schema:

type: array

items:

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

minItems: 1

required: true

responses:

'204':

description: Successful response

'200':

description: Expected response to a valid request

content:

application/json:

schema:

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

'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'

get:

summary: Retrieve a eeSubscription

operationId: QueryeeSubscription

tags:

- Event Exposure Subscription (Document)

security:

- {}

- oAuth2ClientCredentials:

- nudr-dr

- oAuth2ClientCredentials:

- nudr-dr

- nudr-dr:subscription-data

parameters:

- name: ueId

in: path

required: true

schema:

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

- name: subsId

in: path

required: true

description: Unique ID of the subscription to remove

schema:

type: string

responses:

'200':

description: Expected response to a valid request

content:

application/json:

schema:

items:

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

'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'

/subscription-data/{ueId}/context-data/ee-subscriptions/{subsId}/amf-subscriptions:

put:

summary: Create AmfSubscriptions for an individual ee subscriptions of a UE

operationId: Create AMF Subscriptions

tags:

- AMF Subscription Info (Document)

security:

- {}

- oAuth2ClientCredentials:

- nudr-dr

- oAuth2ClientCredentials:

- nudr-dr

- nudr-dr:subscription-data

parameters:

- name: ueId

in: path

required: true

schema:

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

- name: subsId

in: path

required: true

schema:

type: string

requestBody:

content:

application/json:

schema:

type: array

items:

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

minItems: 1

required: true

responses:

'204':

description: Upon success, an empty response body shall be returned

'201':

description: Upon successful creation, the created resource shall be returned

content:

application/json:

schema:

type: array

items:

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

minItems: 1

'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'

delete:

summary: Deletes AMF Subscription Info for an eeSubscription

operationId: RemoveAmfSubscriptionsInfo

tags:

- Event AMF Subscription Info (Document)

security:

- {}

- oAuth2ClientCredentials:

- nudr-dr

- oAuth2ClientCredentials:

- nudr-dr

- nudr-dr:subscription-data

parameters:

- name: ueId

in: path

required: true

schema:

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

- name: subsId

in: path

required: true

schema:

type: string

responses:

'204':

description: Expected response to a successful subscription removal

'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'

'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: modify the AMF Subscription Info

operationId: ModifyAmfSubscriptionInfo

tags:

- AmfSubscriptionInfo (Document)

security:

- {}

- oAuth2ClientCredentials:

- nudr-dr

- oAuth2ClientCredentials:

- nudr-dr

- nudr-dr:subscription-data

parameters:

- name: ueId

in: path

required: true

schema:

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

- name: subsId

in: path

required: true

schema:

type: string

- name: supported-features

in: query

description: Features required to be supported by the target NF

schema:

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

requestBody:

content:

application/json-patch+json:

schema:

type: array

items:

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

required: true

responses:

'204':

description: Expected response to a valid request

'200':

description: Expected response to a valid request

content:

application/json:

schema:

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

'400':

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

'401':

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

'403':

description: modification is rejected

content:

application/problem+json:

schema:

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

'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'

get:

summary: Retrieve AMF subscription Info

operationId: GetAmfSubscriptionInfo

tags:

- Query AMF Subscription Info (Document)

security:

- {}

- oAuth2ClientCredentials:

- nudr-dr

- oAuth2ClientCredentials:

- nudr-dr

- nudr-dr:subscription-data

parameters:

- name: ueId

in: path

required: true

schema:

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

- name: subsId

in: path

required: true

schema:

type: string

responses:

'200':

description: OK

content:

application/json:

schema:

type: array

items:

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

minItems: 1

'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'

/subscription-data/{ueId}/context-data/ee-subscriptions/{subsId}/smf-subscriptions:

put:

summary: Create SMF Subscription Info

operationId: Create SMF Subscriptions

tags:

- SMF Event Subscription Info (Document)

security:

- {}

- oAuth2ClientCredentials:

- nudr-dr

- oAuth2ClientCredentials:

- nudr-dr

- nudr-dr:subscription-data

parameters:

- name: ueId

in: path

required: true

schema:

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

- name: subsId

in: path

required: true

schema:

type: string

requestBody:

content:

application/json:

schema:

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

required: true

responses:

'204':

description: Upon success, an empty response body shall be returned

'201':

description: Upon successful creation, the created resource shall be returned

content:

application/json:

schema:

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

'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'

delete:

summary: Delete SMF Subscription Info

operationId: RemoveSmfSubscriptionsInfo

tags:

- SMF Event Subscription Info (Document)

security:

- {}

- oAuth2ClientCredentials:

- nudr-dr

- oAuth2ClientCredentials:

- nudr-dr

- nudr-dr:subscription-data

parameters:

- name: ueId

in: path

required: true

schema:

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

- name: subsId

in: path

required: true

schema:

type: string

responses:

'204':

description: Expected response to a successful subscription removal

'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'

'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: Modify SMF Subscription Info

operationId: ModifySmfSubscriptionInfo

tags:

- SMF Event Subscription Info (Document)

security:

- {}

- oAuth2ClientCredentials:

- nudr-dr

- oAuth2ClientCredentials:

- nudr-dr

- nudr-dr:subscription-data

parameters:

- name: ueId

in: path

required: true

schema:

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

- name: subsId

in: path

required: true

schema:

type: string

- name: supported-features

in: query

description: Features required to be supported by the target NF

schema:

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

requestBody:

content:

application/json-patch+json:

schema:

type: array

items:

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

required: true

responses:

'204':

description: Expected response to a valid request

'200':

description: Expected response to a valid request

content:

application/json:

schema:

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

'400':

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

'401':

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

'403':

description: modification is rejected

content:

application/problem+json:

schema:

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

'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'

get:

summary: Retrieve SMF Subscription Info

operationId: GetSmfSubscriptionInfo

tags:

- SMF Event Subscription Info (Document)

security:

- {}

- oAuth2ClientCredentials:

- nudr-dr

- oAuth2ClientCredentials:

- nudr-dr

- nudr-dr:subscription-data

parameters:

- name: ueId

in: path

required: true

schema:

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

- name: subsId

in: path

required: true

schema:

type: string

responses:

'200':

description: OK

content:

application/json:

schema:

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

'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'

/subscription-data/{ueId}/context-data/ee-subscriptions/{subsId}/hss-subscriptions:

put:

summary: Create HSS Subscription Info

operationId: Create HSS Subscriptions

tags:

- HSS Event Subscription Info (Document)

parameters:

- name: ueId

in: path

required: true

schema:

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

- name: subsId

in: path

required: true

schema:

type: string

requestBody:

content:

application/json:

schema:

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

required: true

responses:

'204':

description: Upon success, an empty response body shall be returned

'201':

description: Upon successful creation, the created resource shall be returned

content:

application/json:

schema:

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

'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'

delete:

summary: Delete HSS Subscription Info

operationId: RemoveHssSubscriptionsInfo

tags:

- HSS Event Subscription Info (Document)

parameters:

- name: ueId

in: path

required: true

schema:

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

- name: subsId

in: path

required: true

schema:

type: string

responses:

'204':

description: Expected response to a successful subscription removal

'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'

'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: Modify HSS Subscription Info

operationId: ModifyHssSubscriptionInfo

tags:

- HSS Event Subscription Info (Document)

parameters:

- name: ueId

in: path

required: true

schema:

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

- name: subsId

in: path

required: true

schema:

type: string

- name: supported-features

in: query

description: Features required to be supported by the target NF

schema:

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

requestBody:

content:

application/json-patch+json:

schema:

type: array

items:

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

required: true

responses:

'204':

description: Expected response to a valid request

'200':

description: Expected response to a valid request

content:

application/json:

schema:

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

'400':

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

'401':

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

'403':

description: modification is rejected

content:

application/problem+json:

schema:

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

'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'

get:

summary: Retrieve HSS Subscription Info

operationId: GetHssSubscriptionInfo

tags:

- HSS Event Subscription Info (Document)

parameters:

- name: ueId

in: path

required: true

schema:

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

- name: subsId

in: path

required: true

schema:

type: string

responses:

'200':

description: OK

content:

application/json:

schema:

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

'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'

/subscription-data/group-data/{ueGroupId}/ee-subscriptions:

get:

summary: Retrieves the ee subscriptions of a group of UEs or any UE

operationId: QueryEeGroupSubscriptions

tags:

- Event Exposure Group Subscriptions (Collection)

security:

- {}

- oAuth2ClientCredentials:

- nudr-dr

- oAuth2ClientCredentials:

- nudr-dr

- nudr-dr:subscription-data

parameters:

- name: ueGroupId

in: path

description: Group of UEs or any UE

required: true

schema:

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

- name: supported-features

in: query

description: Supported Features

schema:

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

responses:

'200':

description: Expected response to a valid request

content:

application/json:

schema:

type: array

items:

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

'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'

post:

summary: Create individual EE subscription for a group of UEs or any UE

operationId: CreateEeGroupSubscriptions

tags:

- Event Exposure Group Subscriptions (Collection)

security:

- {}

- oAuth2ClientCredentials:

- nudr-dr

- oAuth2ClientCredentials:

- nudr-dr

- nudr-dr:subscription-data

parameters:

- name: ueGroupId

in: path

description: Group of UEs or any UE

required: true

schema:

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

requestBody:

content:

application/json:

schema:

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

required: true

responses:

'201':

description: Expected response to a valid request

content:

application/json:

schema:

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

headers:

Location:

description: 'Contains the URI of the newly created resource, according to the structure: {apiRoot}/nudr-dr/<apiVersion>/subscription-data/group-data/{ueGroupId}/ee-subscriptions'

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'

/subscription-data/group-data/{ueGroupId}/ee-subscriptions/{subsId}:

put:

summary: Update an individual ee subscription of a group of UEs or any UE

operationId: UpdateEeGroupSubscriptions

tags:

- Event Exposure Group Subscription (Document)

security:

- {}

- oAuth2ClientCredentials:

- nudr-dr

- oAuth2ClientCredentials:

- nudr-dr

- nudr-dr:subscription-data

parameters:

- name: ueGroupId

in: path

required: true

schema:

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

- name: subsId

in: path

required: true

schema:

type: string

requestBody:

content:

application/json:

schema:

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

required: true

responses:

'204':

description: Upon success, an empty response body shall be returned

'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':

description: update of non-existing resource is rejected

content:

application/problem+json:

schema:

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

'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'

delete:

summary: Deletes a eeSubscription for a group of UEs or any UE

operationId: RemoveEeGroupSubscriptions

tags:

- Event Exposure Group Subscription (Document)

security:

- {}

- oAuth2ClientCredentials:

- nudr-dr

- oAuth2ClientCredentials:

- nudr-dr

- nudr-dr:subscription-data

parameters:

- name: ueGroupId

in: path

required: true

schema:

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

- name: subsId

in: path

required: true

description: Unique ID of the subscription to remove

schema:

type: string

responses:

'204':

description: Expected response to a successful subscription removal

'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'

'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: Modify an individual ee subscription for a group of a UEs

operationId: ModifyEeGroupSubscription

tags:

- Event Exposure Group Subscription (Document)

security:

- {}

- oAuth2ClientCredentials:

- nudr-dr

- oAuth2ClientCredentials:

- nudr-dr

- nudr-dr:subscription-data

parameters:

- name: ueGroupId

in: path

required: true

schema:

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

- name: subsId

in: path

required: true

schema:

type: string

- name: supported-features

in: query

description: Features required to be supported by the target NF

schema:

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

requestBody:

content:

application/json-patch+json:

schema:

type: array

items:

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

minItems: 1

required: true

responses:

'204':

description: Successful response

'200':

description: Expected response to a valid request

content:

application/json:

schema:

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

'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'

get:

summary: Retrieve a individual eeSubscription for a group of UEs or any UE

operationId: QueryEeGroupSubscription

tags:

- Event Exposure Group Subscription (Document)

security:

- {}

- oAuth2ClientCredentials:

- nudr-dr

- oAuth2ClientCredentials:

- nudr-dr

- nudr-dr:subscription-data

parameters:

- name: ueGroupId

in: path

required: true

schema:

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

- name: subsId

in: path

required: true

description: Unique ID of the subscription to remove

schema:

type: string

responses:

'200':

description: Expected response to a valid request

content:

application/json:

schema:

items:

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

'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'

/subscription-data/group-data/{ueGroupId}/ee-profile-data:

get:

summary: Retrieves the ee profile data profile data of a group or anyUE

operationId: QueryGroupEEData

tags:

- Event Exposure Data for a group (Document)

security:

- {}

- oAuth2ClientCredentials:

- nudr-dr

- oAuth2ClientCredentials:

- nudr-dr

- nudr-dr:subscription-data

parameters:

- name: ueGroupId

in: path

description: Group of UEs or any UE

required: true

schema:

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

- name: supported-features

in: query

description: Supported Features

schema:

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

responses:

'200':

description: Expected response to a valid request

content:

application/json:

schema:

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

'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'

/subscription-data/{ueId}/ee-profile-data:

get:

summary: Retrieves the ee profile data of a UE

operationId: QueryEEData

tags:

- Event Exposure Data (Document)

security:

- {}

- oAuth2ClientCredentials:

- nudr-dr

- oAuth2ClientCredentials:

- nudr-dr

- nudr-dr:subscription-data

parameters:

- name: ueId

in: path

description: UE id

required: true

schema:

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

- name: fields

in: query

description: attributes to be retrieved

required: false

schema:

type: array

items:

type: string

style: form

explode: false

- name: supported-features

in: query

description: Supported Features

schema:

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

responses:

'200':

description: Expected response to a valid request

content:

application/json:

schema:

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

'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'

/subscription-data/{ueId}/context-data/sdm-subscriptions:

get:

summary: Retrieves the sdm subscriptions of a UE

operationId: Querysdmsubscriptions

tags:

- SDM Subscriptions (Collection)

security:

- {}

- oAuth2ClientCredentials:

- nudr-dr

- oAuth2ClientCredentials:

- nudr-dr

- nudr-dr:subscription-data

parameters:

- name: ueId

in: path

description: UE id

required: true

schema:

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

- name: supported-features

in: query

description: Supported Features

schema:

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

responses:

'200':

description: Expected response to a valid request

content:

application/json:

schema:

type: array

items:

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

'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'

post:

summary: Create individual sdm subscription

operationId: CreateSdmSubscriptions

tags:

- SDM Subscriptions (Collection)

security:

- {}

- oAuth2ClientCredentials:

- nudr-dr

- oAuth2ClientCredentials:

- nudr-dr

- nudr-dr:subscription-data

parameters:

- name: ueId

in: path

description: UE ID

required: true

schema:

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

requestBody:

content:

application/json:

schema:

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

required: true

responses:

'201':

description: Expected response to a valid request

content:

application/json:

schema:

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

headers:

Location:

description: 'Contains the URI of the newly created resource, according to the structure: {apiRoot}/nudr-dr/<apiVersion>/subscription-data/{ueId}/context-data/sdm-subscriptions/{subsId}'

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'

/subscription-data/{ueId}/context-data/sdm-subscriptions/{subsId}:

put:

summary: Update an individual sdm subscriptions of a UE

operationId: Updatesdmsubscriptions

tags:

- SDM Subscription (Document)

security:

- {}

- oAuth2ClientCredentials:

- nudr-dr

- oAuth2ClientCredentials:

- nudr-dr

- nudr-dr:subscription-data

parameters:

- name: ueId

in: path

required: true

schema:

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

- name: subsId

in: path

required: true

schema:

type: string

requestBody:

content:

application/json:

schema:

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

required: true

responses:

'204':

description: Upon success, an empty response body shall be returned

'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':

description: update of non-existing resource is rejected

content:

application/problem+json:

schema:

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

'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'

delete:

summary: Deletes a sdmsubscriptions

operationId: RemovesdmSubscriptions

tags:

- SDM Subscription (Document)

security:

- {}

- oAuth2ClientCredentials:

- nudr-dr

- oAuth2ClientCredentials:

- nudr-dr

- nudr-dr:subscription-data

parameters:

- name: ueId

in: path

required: true

schema:

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

- name: subsId

in: path

required: true

description: Unique ID of the subscription to remove

schema:

type: string

responses:

'204':

description: Expected response to a successful subscription removal

'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'

'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: Modify an individual sdm subscription

operationId: ModifysdmSubscription

tags:

- SDM Subscription (Document)

security:

- {}

- oAuth2ClientCredentials:

- nudr-dr

- oAuth2ClientCredentials:

- nudr-dr

- nudr-dr:subscription-data

parameters:

- name: ueId

in: path

description: UE id

required: true

schema:

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

- name: subsId

in: path

required: true

schema:

type: string

- name: supported-features

in: query

description: Features required to be supported by the target NF

schema:

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

requestBody:

content:

application/json-patch+json:

schema:

type: array

items:

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

minItems: 1

required: true

responses:

'204':

description: Successful response

'200':

description: Expected response to a valid request

content:

application/json:

schema:

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

'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'

get:

summary: Retrieves a individual sdmSubscription identified by subsId

operationId: QuerysdmSubscription

tags:

- SDM Subscription (Document)

security:

- {}

- oAuth2ClientCredentials:

- nudr-dr

- oAuth2ClientCredentials:

- nudr-dr

- nudr-dr:subscription-data

parameters:

- name: ueId

in: path

required: true

schema:

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

- name: subsId

in: path

required: true

description: Unique ID of the subscription to retrieve

schema:

type: string

responses:

'200':

description: Expected response to a valid request

content:

application/json:

schema:

items:

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

'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'

/subscription-data/{ueId}/context-data/sdm-subscriptions/{subsId}/hss-sdm-subscriptions:

put:

summary: Create HSS SDM Subscription Info

operationId: Create HSS SDM Subscriptions

tags:

- HSS SDM Subscription Info (Document)

parameters:

- name: ueId

in: path

required: true

schema:

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

- name: subsId

in: path

required: true

schema:

type: string

requestBody:

content:

application/json:

schema:

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

required: true

responses:

'204':

description: Upon success, an empty response body shall be returned

'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'

delete:

summary: Delete HSS SDM Subscription Info

operationId: RemoveHssSDMSubscriptionsInfo

tags:

- HSS SDM Subscription Info (Document)

parameters:

- name: ueId

in: path

required: true

schema:

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

- name: subsId

in: path

required: true

schema:

type: string

responses:

'204':

description: Expected response to a successful subscription removal

'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'

'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: Modify HSS SDM Subscription Info

operationId: ModifyHssSDMSubscriptionInfo

tags:

- HSS SDM Subscription Info (Document)

parameters:

- name: ueId

in: path

required: true

schema:

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

- name: subsId

in: path

required: true

schema:

type: string

- name: supported-features

in: query

description: Features required to be supported by the target NF

schema:

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

requestBody:

content:

application/json-patch+json:

schema:

type: array

items:

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

required: true

responses:

'204':

description: Expected response to a valid request

'200':

description: Expected response to a valid request

content:

application/json:

schema:

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

'400':

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

'401':

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

'403':

description: modification is rejected

content:

application/problem+json:

schema:

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

'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'

get:

summary: Retrieve HSS SDM Subscription Info

operationId: GetHssSDMSubscriptionInfo

tags:

- HSS SDM Subscription Info (Document)

parameters:

- name: ueId

in: path

required: true

schema:

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

- name: subsId

in: path

required: true

schema:

type: string

responses:

'200':

description: OK

content:

application/json:

schema:

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

'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'

/subscription-data/shared-data:

get:

summary: retrieve shared data

operationId: GetSharedData

tags:

- Retrieval of shared data

security:

- {}

- oAuth2ClientCredentials:

- nudr-dr

- oAuth2ClientCredentials:

- nudr-dr

- nudr-dr:subscription-data

parameters:

- name: shared-data-ids

in: query

description: List of shared data ids

required: true

style: form

explode: false

schema:

$ref: 'TS29503\_Nudm\_SDM.yaml#/components/schemas/SharedDataIds'

- name: supported-features

in: query

description: Supported Features

schema:

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

responses:

'200':

description: Expected response to a valid request

content:

application/json:

schema:

type: array

items:

$ref: 'TS29503\_Nudm\_SDM.yaml#/components/schemas/SharedData'

'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'

/subscription-data/shared-data/{sharedDataId}:

get:

summary: retrieve individual shared data

operationId: GetIndividualSharedData

tags:

- Retrieval of individual shared data

parameters:

- name: If-None-Match

in: header

description: Validator for conditional requests, as described in RFC 9110, 13.1.2

schema:

type: string

- name: If-Modified-Since

in: header

description: Validator for conditional requests, as described in RFC 9110, 13.1.3

schema:

type: string

- name: sharedDataId

in: path

description: Id of the Shared Data

required: true

schema:

$ref: 'TS29503\_Nudm\_SDM.yaml#/components/schemas/SharedDataId'

responses:

'200':

description: Expected response to a valid request

content:

application/json:

schema:

$ref: 'TS29503\_Nudm\_SDM.yaml#/components/schemas/SharedData'

headers:

Cache-Control:

description: Cache-Control containing max-age, as described in RFC 9111, 5.2

schema:

type: string

ETag:

description: Entity Tag, containing a strong validator, as described in RFC 9110, 8.8.3

schema:

type: string

Last-Modified:

description: Timestamp for last modification of the resource, as described in RFC 9110, 8.8.2

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'

'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'

/subscription-data/subs-to-notify:

post:

summary: Subscription data subscriptions

operationId: SubscriptionDataSubscriptions

tags:

- Subs To Notify (Collection)

security:

- {}

- oAuth2ClientCredentials:

- nudr-dr

- oAuth2ClientCredentials:

- nudr-dr

- nudr-dr:subscription-data

requestBody:

content:

application/json:

schema:

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

required: true

responses:

'201':

description: Expected response to a valid request

content:

application/json:

schema:

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

headers:

Location:

description: 'Contains the URI of the newly created resource, according to the structure: {apiRoot}/nudr-dr/<apiVersion>/subscription-data/subs-to-notify/{subsId}'

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:

onDataChange:

'{request.body#/callbackReference}':

post:

requestBody:

required: true

content:

application/json:

schema:

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

responses:

'204':

description: Expected response to a valid request

'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'

get:

summary: Retrieves the list of subscriptions

operationId: QuerySubsToNotify

tags:

- Subs To Notify (Collection)

security:

- {}

- oAuth2ClientCredentials:

- nudr-dr

- oAuth2ClientCredentials:

- nudr-dr

- nudr-dr:subscription-data

parameters:

- name: ue-id

in: query

description: UE id

required: true

schema:

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

- name: supported-features

in: query

description: Supported Features

schema:

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

responses:

'200':

description: Expected response to a valid request

content:

application/json:

schema:

type: array

items:

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

'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'

delete:

summary: Deletes subscriptions identified by a given ue-id parameter

operationId: RemoveMultipleSubscriptionDataSubscriptions

tags:

- Subs To Notify (Collection)

security:

- {}

- oAuth2ClientCredentials:

- nudr-dr

- oAuth2ClientCredentials:

- nudr-dr

- nudr-dr:subscription-data

parameters:

- name: ue-id

in: query

required: true

description: UE ID

schema:

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

- name: nf-instance-id

in: query

required: false

description: NF Instance ID

schema:

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

- name: delete-all-nfs

in: query

required: false

description: Flag to delete subscriptions from all NFs

schema:

type: boolean

- name: implicit-unsubscribe-indication

in: query

required: false

description: Implicit Unsubscribe Indication

schema:

type: boolean

responses:

'204':

description: Expected response to a successful subscription removal

'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'

'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'

/subscription-data/subs-to-notify/{subsId}:

delete:

summary: Deletes a subscriptionDataSubscriptions

operationId: RemovesubscriptionDataSubscriptions

tags:

- Subs To Notify (Document)

security:

- {}

- oAuth2ClientCredentials:

- nudr-dr

- oAuth2ClientCredentials:

- nudr-dr

- nudr-dr:subscription-data

parameters:

- name: subsId

in: path

required: true

description: Unique ID of the subscription to remove

schema:

type: string

responses:

'204':

description: Expected response to a successful subscription removal

'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'

'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: Modify an individual subscriptionDataSubscription

operationId: ModifysubscriptionDataSubscription

tags:

- Subs To Notify (Document)

security:

- {}

- oAuth2ClientCredentials:

- nudr-dr

- oAuth2ClientCredentials:

- nudr-dr

- nudr-dr:subscription-data

parameters:

- name: subsId

in: path

required: true

schema:

type: string

- name: supported-features

in: query

description: Features required to be supported by the target NF

schema:

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

requestBody:

content:

application/json-patch+json:

schema:

type: array

items:

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

minItems: 1

required: true

responses:

'204':

description: Successful response

'200':

description: Expected response to a valid request

content:

application/json:

schema:

oneOf:

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

- $ref: '#/components/schemas/SubscriptionDataSubscriptions'

'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'

get:

summary: Retrieves a individual subscriptionDataSubscription identified by subsId

operationId: QuerySubscriptionDataSubscriptions

tags:

- Subs To Notify (Document)

security:

- {}

- oAuth2ClientCredentials:

- nudr-dr

- oAuth2ClientCredentials:

- nudr-dr

- nudr-dr:subscription-data

parameters:

- name: subsId

in: path

required: true

description: Unique ID of the subscription to retrieve

schema:

type: string

responses:

'200':

description: Expected response to a valid request

content:

application/json:

schema:

items:

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

'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'

/subscription-data/{ueId}/{servingPlmnId}/provisioned-data/trace-data:

get:

summary: Retrieves the trace configuration data of a UE

operationId: QueryTraceData

tags:

- Trace Data (Document)

security:

- {}

- oAuth2ClientCredentials:

- nudr-dr

- oAuth2ClientCredentials:

- nudr-dr

- nudr-dr:subscription-data

parameters:

- name: ueId

in: path

description: UE id

required: true

schema:

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

- name: servingPlmnId

in: path

description: PLMN ID

required: true

schema:

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

- name: If-None-Match

in: header

description: Validator for conditional requests, as described in RFC 9110, 13.1.2

schema:

type: string

- name: If-Modified-Since

in: header

description: Validator for conditional requests, as described in RFC 9110, 13.1.3

schema:

type: string

responses:

'200':

description: Expected response to a valid request

content:

application/json:

schema:

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

headers:

Cache-Control:

description: Cache-Control containing max-age, as described in RFC 9111, 5.2

schema:

type: string

ETag:

description: Entity Tag, containing a strong validator, as described in RFC 9110, 8.8.3

schema:

type: string

Last-Modified:

description: Timestamp for last modification of the resource, as described in RFC 9110, 8.8.2

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'

'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'

/subscription-data/{ueId}/identity-data:

get:

summary: Retrieve identity data by SUPI or GPSI

operationId: GetIdentityData

tags:

- Query Identity Data by SUPI or GPSI (Document)

security:

- {}

- oAuth2ClientCredentials:

- nudr-dr

- oAuth2ClientCredentials:

- nudr-dr

- nudr-dr:subscription-data

parameters:

- name: ueId

in: path

description: UE ID

required: true

schema:

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

- name: app-port-id

in: query

description: Application port identifier

content:

application/json:

schema:

$ref: 'TS29503\_Nudm\_SDM.yaml#/components/schemas/AppPortId'

- name: If-None-Match

in: header

description: Validator for conditional requests, as described in RFC 9110, 13.1.2

schema:

type: string

- name: If-Modified-Since

in: header

description: Validator for conditional requests, as described in RFC 9110, 13.1.3

schema:

type: string

responses:

'200':

description: OK

content:

application/json:

schema:

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

headers:

Cache-Control:

description: Cache-Control containing max-age, as described in RFC 9111, 5.2

schema:

type: string

ETag:

description: Entity Tag, containing a strong validator, as described in RFC 9110, 8.8.3

schema:

type: string

Last-Modified:

description: Timestamp for last modification of the resource, as described in RFC 9110, 8.8.2

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'

'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'

/subscription-data/{ueId}/operator-determined-barring-data:

get:

summary: Retrieve ODB Data data by SUPI or GPSI

operationId: GetOdbData

tags:

- Query ODB Data by SUPI or GPSI (Document)

security:

- {}

- oAuth2ClientCredentials:

- nudr-dr

- oAuth2ClientCredentials:

- nudr-dr

- nudr-dr:subscription-data

parameters:

- name: ueId

in: path

description: UE ID

required: true

schema:

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

responses:

'200':

description: OK

content:

application/json:

schema:

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

'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'

/subscription-data/{ueId}/context-data:

get:

summary: Retrieve multiple context data sets of a UE

operationId: QueryContextData

tags:

- Context Data (Document)

security:

- {}

- oAuth2ClientCredentials:

- nudr-dr

- oAuth2ClientCredentials:

- nudr-dr

- nudr-dr:subscription-data

parameters:

- name: ueId

in: path

description: UE id

required: true

schema:

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

- name: context-dataset-names

in: query

description: List of context dataset names

style: form

explode: false

required: true

schema:

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

responses:

'200':

description: Expected response to a valid request

content:

application/json:

schema:

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

headers:

3gpp-Sbi-Etags:

description: A comma-separated list of ProvisionedDatasetName = Etag pairs

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'

'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'

/subscription-data/group-data/group-identifiers:

get:

summary: Mapping of Group Identifiers

operationId: GetGroupIdentifiers

tags:

- Group Identifiers

security:

- {}

- oAuth2ClientCredentials:

- nudr-dr

- oAuth2ClientCredentials:

- nudr-dr

- nudr-dr:subscription-data

parameters:

- name: ext-group-id

in: query

description: External Group Identifier

required: false

schema:

$ref: 'TS29503\_Nudm\_SDM.yaml#/components/schemas/ExtGroupId'

- name: int-group-id

in: query

description: Internal Group Identifier

required: false

schema:

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

- name: ue-id-ind

in: query

description: Indication whether UE identifiers are required or not

required: false

schema:

type: boolean

default: false

- name: supported-features

in: query

description: Supported Features

schema:

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

responses:

'200':

description: Expected response to a valid request

content:

application/json:

schema:

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

'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'

/subscription-data/group-data/5g-vn-groups:

get:

summary: Retrieves the data of a 5G VN Group

operationId: Query5GVnGroup

tags:

- 5G-VN-Groups (Store)

security:

- {}

- oAuth2ClientCredentials:

- nudr-dr

- oAuth2ClientCredentials:

- nudr-dr

- nudr-dr:subscription-data

parameters:

- name: gpsis

in: query

description: List of GPSIs

schema:

type: array

items:

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

style: form

explode: false

responses:

'200':

description: Expected response to a valid request

content:

application/json:

schema:

type: object

description: A map(list of key-value pairs) where ExtGroupId serves as key

additionalProperties:

$ref: 'TS29503\_Nudm\_PP.yaml#/components/schemas/5GVnGroupConfiguration'

'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'

/subscription-data/group-data/5g-vn-groups/{externalGroupId}:

put:

summary: Create an individual 5G VN Grouop

operationId: Create5GVnGroup

tags:

- 5GVnGroupConfiguration (Document)

security:

- {}

- oAuth2ClientCredentials:

- nudr-dr

- oAuth2ClientCredentials:

- nudr-dr

- nudr-dr:subscription-data

parameters:

- name: externalGroupId

in: path

required: true

schema:

$ref: 'TS29503\_Nudm\_SDM.yaml#/components/schemas/ExtGroupId'

requestBody:

content:

application/json:

schema:

$ref: 'TS29503\_Nudm\_PP.yaml#/components/schemas/5GVnGroupConfiguration'

required: true

responses:

'201':

description: Expected response to a valid request

content:

application/json:

schema:

$ref: 'TS29503\_Nudm\_PP.yaml#/components/schemas/5GVnGroupConfiguration'

'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'

delete:

summary: Deletes the 5GVnGroup

operationId: Delete5GVnGroup

tags:

- Delete 5GVnGroup

security:

- {}

- oAuth2ClientCredentials:

- nudr-dr

- oAuth2ClientCredentials:

- nudr-dr

- nudr-dr:subscription-data

parameters:

- name: externalGroupId

in: path

required: true

schema:

$ref: 'TS29503\_Nudm\_SDM.yaml#/components/schemas/ExtGroupId'

responses:

'204':

description: Expected response to a successful group removal

'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'

'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: modify the 5GVnGroup

operationId: Modify5GVnGroup

tags:

- Modify 5GVnGroup

security:

- {}

- oAuth2ClientCredentials:

- nudr-dr

- oAuth2ClientCredentials:

- nudr-dr

- nudr-dr:subscription-data

parameters:

- name: externalGroupId

in: path

required: true

schema:

$ref: 'TS29503\_Nudm\_SDM.yaml#/components/schemas/ExtGroupId'

- name: supported-features

in: query

description: Features required to be supported by the target NF

schema:

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

requestBody:

content:

application/json-patch+json:

schema:

type: array

items:

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

required: true

responses:

'204':

description: Expected response to a valid request

'200':

description: Expected response to a valid request

content:

application/json:

schema:

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

'400':

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

'401':

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

'403':

description: modification is rejected

content:

application/problem+json:

schema:

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

'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'

get:

summary: Retrieve a 5GVnGroup configuration

operationId: Get5GVnGroupConfiguration

tags:

- Query 5GVnGroupConfiguration (Document)

security:

- {}

- oAuth2ClientCredentials:

- nudr-dr

- oAuth2ClientCredentials:

- nudr-dr

- nudr-dr:subscription-data

parameters:

- name: externalGroupId

in: path

required: true

schema:

$ref: 'TS29503\_Nudm\_SDM.yaml#/components/schemas/ExtGroupId'

responses:

'200':

description: OK

content:

application/json:

schema:

$ref: 'TS29503\_Nudm\_PP.yaml#/components/schemas/5GVnGroupConfiguration'

'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'

/subscription-data/{ueId}/lcs-privacy-data:

get:

summary: Retrieves the LCS Privacy subscription data of a UE

operationId: QueryLcsPrivacyData

tags:

- LCS Privacy Subscription Data

security:

- {}

- oAuth2ClientCredentials:

- nudr-dr

- oAuth2ClientCredentials:

- nudr-dr

- nudr-dr:subscription-data

parameters:

- name: ueId

in: path

description: UE id

required: true

schema:

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

- name: fields

in: query

description: attributes to be retrieved

required: false

schema:

type: array

items:

type: string

minItems: 1

style: form

explode: false

- name: supported-features

in: query

description: Supported Features

schema:

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

- name: If-None-Match

in: header

description: Validator for conditional requests, as described in RFC 9110, 13.1.2

schema:

type: string

- name: If-Modified-Since

in: header

description: Validator for conditional requests, as described in RFC 9110, 13.1.3

schema:

type: string

responses:

'200':

description: Expected response to a valid request

content:

application/json:

schema:

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

headers:

Cache-Control:

description: Cache-Control containing max-age, as described in RFC 9111, 5.2

schema:

type: string

ETag:

description: Entity Tag, containing a strong validator, as described in RFC 9110, 8.8.3

schema:

type: string

Last-Modified:

description: Timestamp for last modification of the resource, as described in RFC 9110, 8.8.2

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'

'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'

/subscription-data/{ueId}/lcs-subscription-data:

get:

summary: Retrieves the LCS subscription data of a UE

operationId: QueryLcsSubscriptionData

tags:

- LCS Subscription Data

security:

- {}

- oAuth2ClientCredentials:

- nudr-dr

- oAuth2ClientCredentials:

- nudr-dr

- nudr-dr:subscription-data

parameters:

- name: ueId

in: path

description: UE id

required: true

schema:

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

- name: fields

in: query

description: attributes to be retrieved

required: false

schema:

type: array

items:

type: string

minItems: 1

style: form

explode: false

- name: supported-features

in: query

description: Supported Features

schema:

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

- name: If-None-Match

in: header

description: Validator for conditional requests, as described in RFC 9110, 13.1.2

schema:

type: string

- name: If-Modified-Since

in: header

description: Validator for conditional requests, as described in RFC 9110, 13.1.3

schema:

type: string

responses:

'200':

description: Expected response to a valid request

content:

application/json:

schema:

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

headers:

Cache-Control:

description: Cache-Control containing max-age, as described in RFC 9111, 5.2

schema:

type: string

ETag:

description: Entity Tag, containing a strong validator, as described in RFC 9110, 8.8.3

schema:

type: string

Last-Modified:

description: Timestamp for last modification of the resource, as described in RFC 9110, 8.8.2

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'

'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'

/subscription-data/{ueId}/lcs-mo-data:

get:

summary: Retrieves the LCS Mobile Originated subscription data of a UE

operationId: QueryLcsMoData

tags:

- LCS Mobile Originated Subscription Data

security:

- {}

- oAuth2ClientCredentials:

- nudr-dr

- oAuth2ClientCredentials:

- nudr-dr

- nudr-dr:subscription-data

parameters:

- name: ueId

in: path

description: UE id

required: true

schema:

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

- name: fields

in: query

description: attributes to be retrieved

required: false

schema:

type: array

items:

type: string

minItems: 1

style: form

explode: false

- name: supported-features

in: query

description: Supported Features

schema:

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

- name: If-None-Match

in: header

description: Validator for conditional requests, as described in RFC 9110, 13.1.2

schema:

type: string

- name: If-Modified-Since

in: header

description: Validator for conditional requests, as described in RFC 9110, 13.1.3

schema:

type: string

responses:

'200':

description: Expected response to a valid request

content:

application/json:

schema:

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

headers:

Cache-Control:

description: Cache-Control containing max-age, as described in RFC 9111, 5.2

schema:

type: string

ETag:

description: Entity Tag, containing a strong validator, as described in RFC 9110, 8.8.3

schema:

type: string

Last-Modified:

description: Timestamp for last modification of the resource, as described in RFC 9110, 8.8.2

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'

'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'

/subscription-data/{ueId}/nidd-authorization-data:

get:

summary: Retrieve NIDD Authorization Data GPSI or External Group identifier

operationId: GetNiddAuData

tags:

- Query NIDD Authorization Data GPSI or External Group identifier (Document)

security:

- {}

- oAuth2ClientCredentials:

- nudr-dr

- oAuth2ClientCredentials:

- nudr-dr

- nudr-dr:subscription-data

parameters:

- name: ueId

in: path

description: UE ID

required: true

schema:

type: string

pattern: '^(msisdn-[0-9]{5,15}|.+|extid-[^@]+@[^@]+|extgroupid-[^@]+@[^@]+)$'

- name: single-nssai

in: query

content:

application/json:

schema:

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

description: single NSSAI

required: true

- name: dnn

in: query

description: DNN

required: true

schema:

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

- name: mtc-provider-information

in: query

description: MTC Provider Information

required: true

schema:

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

- name: af-id

in: query

description: Application Function Identifier

schema:

type: string

- name: If-None-Match

in: header

description: Validator for conditional requests, as described in RFC 9110, 13.1.2

schema:

type: string

- name: If-Modified-Since

in: header

description: Validator for conditional requests, as described in RFC 9110, 13.1.3

schema:

type: string

responses:

'200':

description: OK

content:

application/json:

schema:

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

headers:

Cache-Control:

description: Cache-Control containing max-age, as described in RFC 9111, 5.2

schema:

type: string

ETag:

description: Entity Tag, containing a strong validator, as described in RFC 9110, 8.8.3

schema:

type: string

Last-Modified:

description: Timestamp for last modification of the resource, as described in RFC 9110, 8.8.2

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'

'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'

/subscription-data/{ueId}/coverage-restriction-data:

get:

summary: Retrieves the subscribed enhanced Coverage Restriction Data of a UE

operationId: QueryCoverageRestrictionData

tags:

- Enhanced Coverage Restriction Data

security:

- {}

- oAuth2ClientCredentials:

- nudr-dr

- oAuth2ClientCredentials:

- nudr-dr

- nudr-dr:subscription-data

parameters:

- name: ueId

in: path

description: UE id

required: true

schema:

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

- name: supported-features

in: query

description: Supported Features

schema:

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

- name: If-None-Match

in: header

description: Validator for conditional requests, as described in RFC 9110, 13.1.2

schema:

type: string

- name: If-Modified-Since

in: header

description: Validator for conditional requests, as described in RFC 9110, 13.1.3

schema:

type: string

responses:

'200':

description: OK

content:

application/json:

schema:

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

headers:

Cache-Control:

description: Cache-Control containing max-age, as described in RFC 9111, 5.2

schema:

type: string

ETag:

description: Entity Tag, containing a strong validator, as described in RFC 9110, 8.8.3

schema:

type: string

Last-Modified:

description: Timestamp for last modification of the resource, as described in RFC 9110, 8.8.2

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'

'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'

/subscription-data/{ueId}/context-data/location:

get:

summary: Retrieves the UE's Location Information

operationId: QueryUeLocation

tags:

- UE's Location Information (Document)

security:

- {}

- oAuth2ClientCredentials:

- nudr-dr

- oAuth2ClientCredentials:

- nudr-dr

- nudr-dr:subscription-data

parameters:

- name: ueId

in: path

description: UE id

required: true

schema:

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

- name: supported-features

in: query

description: Supported Features

schema:

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

responses:

'200':

description: Expected response to a valid request

content:

application/json:

schema:

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

'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'

/subscription-data/{ueId}/v2x-data:

get:

summary: Retrieves the subscribed V2X Data of a UE

operationId: QueryV2xData

tags:

- V2X Subscription Data

security:

- {}

- oAuth2ClientCredentials:

- nudr-dr

- oAuth2ClientCredentials:

- nudr-dr

- nudr-dr:subscription-data

parameters:

- name: ueId

in: path

description: UE id

required: true

schema:

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

- name: supported-features

in: query

description: Supported Features

schema:

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

- name: If-None-Match

in: header

description: Validator for conditional requests, as described in RFC 9110, 13.1.2

schema:

type: string

- name: If-Modified-Since

in: header

description: Validator for conditional requests, as described in RFC 9110, 13.1.3

schema:

type: string

responses:

'200':

description: OK

content:

application/json:

schema:

$ref: '#/components/schemas/V2xSubscriptionData'

headers:

Cache-Control:

description: Cache-Control containing max-age, as described in RFC 9111, 5.2

schema:

type: string

ETag:

description: Entity Tag, containing a strong validator, as described in RFC 9110, 8.8.3

schema:

type: string

Last-Modified:

description: Timestamp for last modification of the resource, as described in RFC 9110, 8.8.2

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'

'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'

/subscription-data/{ueId}/prose-data:

get:

summary: Retrieves the subscribed ProSe service Data of a UE

operationId: QueryPorseData

tags:

- ProSe Service Subscription Data

security:

- {}

- oAuth2ClientCredentials:

- nudr-dr

- oAuth2ClientCredentials:

- nudr-dr

- nudr-dr:subscription-data

parameters:

- name: ueId

in: path

description: UE id

required: true

schema:

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

- name: supported-features

in: query

description: Supported Features

schema:

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

- name: If-None-Match

in: header

description: Validator for conditional requests, as described in RFC 9110, 13.1.2

schema:

type: string

- name: If-Modified-Since

in: header

description: Validator for conditional requests, as described in RFC 9110, 13.1.3

schema:

type: string

responses:

'200':

description: OK

content:

application/json:

schema:

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

headers:

Cache-Control:

description: Cache-Control containing max-age, as described in RFC 9111, 5.2

schema:

type: string

ETag:

description: Entity Tag, containing a strong validator, as described in RFC 9110, 8.8.3

schema:

type: string

Last-Modified:

description: Timestamp for last modification of the resource, as described in RFC 9110, 8.8.2

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'

'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'

/subscription-data/{ueId}/{servingPlmnId}/provisioned-data/lcs-bca-data:

get:

summary: Retrieves the LCS Broadcast Assistance subscription data of a UE

operationId: QueryLcsBcaData

tags:

- LCS Broadcast Assistance Subscription Data

parameters:

- name: ueId

in: path

description: UE id

required: true

schema:

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

- name: servingPlmnId

in: path

description: PLMN ID

required: true

schema:

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

- name: supported-features

in: query

description: Supported Features

schema:

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

- name: If-None-Match

in: header

description: Validator for conditional requests, as described in RFC 9110, 13.1.2

schema:

type: string

- name: If-Modified-Since

in: header

description: Validator for conditional requests, as described in RFC 9110, 13.1.3

schema:

type: string

responses:

'200':

description: Expected response to a valid request

content:

application/json:

schema:

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

headers:

Cache-Control:

description: Cache-Control containing max-age, as described in RFC 9111, 5.2

schema:

type: string

ETag:

description: Entity Tag, containing a strong validator, as described in RFC 9110, 8.8.3

schema:

type: string

Last-Modified:

description: Timestamp for last modification of the resource, as described in RFC 9110, 8.8.2

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'

'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:

description: Unexpected error

content:

application/problem+json:

schema:

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

/subscription-data/group-data/5g-vn-groups/internal:

get:

summary: Retrieves the data of 5G VN Group

operationId: Query5GVnGroupInternal

tags:

- 5G-VN-Groups-Internal (Document)

parameters:

- name: internal-group-ids

in: query

description: List of Internal Group IDs

required: true

schema:

type: array

items:

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

style: form

explode: false

responses:

'200':

description: Expected response to a valid request

content:

application/json:

schema:

type: object

description: A map (list of key-value pairs) where ExtGroupId serves as key

additionalProperties:

$ref: 'TS29503\_Nudm\_PP.yaml#/components/schemas/5GVnGroupConfiguration'

'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'

/subscription-data/group-data/5g-vn-groups/pp-profile-data:

get:

summary: Retrieves the parameter provision profile data for 5G VN Group

operationId: Query5GVNGroupPPData

tags:

- Parameter Provision profile Data for 5G VN Group(Document)

security:

- {}

- oAuth2ClientCredentials:

- nudr-dr

- oAuth2ClientCredentials:

- nudr-dr

- nudr-dr:subscription-data

parameters:

- name: ext-group-ids

in: query

description: List of external VN group identifiers

schema:

type: array

items:

$ref: 'TS29503\_Nudm\_SDM.yaml#/components/schemas/ExtGroupId'

minItems: 1

style: form

explode: false

- name: supported-features

in: query

description: Supported Features

schema:

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

responses:

'200':

description: Expected response to a valid request

content:

application/json:

schema:

$ref: '#/components/schemas/Pp5gVnGroupProfileData'

'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'

/subscription-data/{ueId}/context-data/nidd-authorizations:

put:

summary: Create NIDD Authorization Info

operationId: CreateNIDDAuthorizationInfo

tags:

- NIDD Authorization Info (Document)

security:

- {}

- oAuth2ClientCredentials:

- nudr-dr

- oAuth2ClientCredentials:

- nudr-dr

- nudr-dr:subscription-data

parameters:

- name: ueId

in: path

required: true

schema:

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

requestBody:

content:

application/json:

schema:

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

required: true

responses:

'204':

description: Upon success, an empty response body shall be returned

'201':

description: Upon successful creation, the created resource shall be returned

content:

application/json:

schema:

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

'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'

delete:

summary: Delete NIDD Authorization Info

operationId: RemoveNiddAuthorizationInfo

tags:

- NIDD Authorization Info (Document)

security:

- {}

- oAuth2ClientCredentials:

- nudr-dr

- oAuth2ClientCredentials:

- nudr-dr

- nudr-dr:subscription-data

parameters:

- name: ueId

in: path

required: true

schema:

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

responses:

'204':

description: Expected response to a successful subscription removal

'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'

'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: Modify NIDD Authorization Info

operationId: ModifyNiddAuthorizationInfo

tags:

- NIDD Authorization Info (Document)

security:

- {}

- oAuth2ClientCredentials:

- nudr-dr

- oAuth2ClientCredentials:

- nudr-dr

- nudr-dr:subscription-data

parameters:

- name: ueId

in: path

required: true

schema:

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

- name: supported-features

in: query

description: Features required to be supported by the target NF

schema:

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

requestBody:

content:

application/json-patch+json:

schema:

type: array

items:

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

required: true

responses:

'204':

description: Expected response to a valid request

'200':

description: Expected response to a valid request

content:

application/json:

schema:

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

'400':

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

'401':

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

'403':

description: modification is rejected

content:

application/problem+json:

schema:

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

'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'

get:

summary: Retrieve NIDD Authorization Info

operationId: GetNiddAuthorizationInfo

tags:

- NIDD Authorization Info (Document)

security:

- {}

- oAuth2ClientCredentials:

- nudr-dr

- oAuth2ClientCredentials:

- nudr-dr

- nudr-dr:subscription-data

parameters:

- name: ueId

in: path

required: true

schema:

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

responses:

'200':

description: OK

content:

application/json:

schema:

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

'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'

/subscription-data/{ueId}/5mbs-data:

get:

summary: Retrieves the 5mbs subscription data of a UE

operationId: Query5mbsData

tags:

- 5MBSSubscriptionData (Document)

security:

- {}

- oAuth2ClientCredentials:

- nudr-dr

- oAuth2ClientCredentials:

- nudr-dr

- nudr-dr:subscription-data

parameters:

- name: ueId

in: path

description: UE id

required: true

schema:

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

- name: supported-features

in: query

description: Supported Features

schema:

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

- name: If-None-Match

in: header

description: Validator for conditional requests, as described in RFC 9110, 13.1.2

schema:

type: string

- name: If-Modified-Since

in: header

description: Validator for conditional requests, as described in RFC 9110, 13.1.3

schema:

type: string

responses:

'200':

description: Expected response to a valid request

content:

application/json:

schema:

$ref: 'TS29503\_Nudm\_SDM.yaml#/components/schemas/MbsSubscriptionData'

headers:

Cache-Control:

description: Cache-Control containing max-age, as described in RFC 9111, 5.2

schema:

type: string

ETag:

description: Entity Tag, containing a strong validator, as described in RFC 9110, 8.8.3

schema:

type: string

Last-Modified:

description: Timestamp for last modification of the resource, as described in RFC 9110, 8.8.2

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'

'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'

/subscription-data/{ueId}:

get:

summary: Retrieve multiple subscribed data sets of a UE

operationId: QueryUeSubscribedData

tags:

- UE Subscribed Data (Document)

security:

- {}

- oAuth2ClientCredentials:

- nudr-dr

- oAuth2ClientCredentials:

- nudr-dr

- nudr-dr:subscription-data

parameters:

- name: ueId

in: path

description: UE Id

required: true

schema:

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

- name: dataset-names

in: query

description: List of dataset names

style: form

explode: false

schema:

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

- name: serving-plmn

in: query

description: Serving PLMN Id

schema:

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

- name: adjacent-plmns

in: query

description: List of PLMNs adjacent to the UE's serving PLMN

schema:

type: array

items:

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

minItems: 1

style: form

explode: false

- name: single-nssai

in: query

content:

application/json:

schema:

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

description: single NSSAI

required: false

- name: dnn

in: query

description: DNN

required: false

schema:

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

- name: ext-group-ids

in: query

description: List of external VN group identifiers

schema:

type: array

items:

$ref: 'TS29503\_Nudm\_SDM.yaml#/components/schemas/ExtGroupId'

minItems: 1

style: form

explode: false

- name: uc-purpose

in: query

description: User consent purpose

schema:

$ref: 'TS29503\_Nudm\_SDM.yaml#/components/schemas/UcPurpose'

responses:

'200':

description: Expected response to a valid request

content:

application/json:

schema:

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

headers:

3gpp-Sbi-Etags:

description: A comma-separated list of ProvisionedDatasetName = Etag pairs

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'

'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'

/subscription-data/{ueId}/service-specific-authorization-data/{serviceType}:

get:

summary: Retrieve ServiceSpecific Authorization Data

operationId: GetSSAuData

tags:

- Query Service Specific Authorization Data (Document)

security:

- {}

- oAuth2ClientCredentials:

- nudr-dr

- oAuth2ClientCredentials:

- nudr-dr

- nudr-dr:subscription-data

parameters:

- name: ueId

in: path

description: UE ID

required: true

schema:

type: string

pattern: '^(msisdn-[0-9]{5,15}|.+|extid-[^@]+@[^@]+|extgroupid-[^@]+@[^@]+)$'

- name: serviceType

in: path

description: Service Type

required: true

schema:

$ref: 'TS29503\_Nudm\_SSAU.yaml#/components/schemas/ServiceType'

- name: single-nssai

in: query

content:

application/json:

schema:

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

description: single NSSAI

required: true

- name: dnn

in: query

description: DNN

required: true

schema:

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

- name: mtc-provider-information

in: query

description: MTC Provider Information

schema:

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

- name: af-id

in: query

description: Application Function Identifier

schema:

type: string

- name: If-None-Match

in: header

description: Validator for conditional requests, as described in RFC 9110, 13.1.2

schema:

type: string

- name: If-Modified-Since

in: header

description: Validator for conditional requests, as described in RFC 9110, 13.1.3

schema:

type: string

responses:

'200':

description: OK

content:

application/json:

schema:

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

headers:

Cache-Control:

description: Cache-Control containing max-age, as described in RFC 9111, 5.2

schema:

type: string

ETag:

description: Entity Tag, containing a strong validator, as described in RFC 9110, 8.8.3

schema:

type: string

Last-Modified:

description: Timestamp for last modification of the resource, as described in RFC 9110, 8.8.2

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'

'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'

/subscription-data/{ueId}/context-data/service-specific-authorizations/{serviceType}:

put:

summary: Create Service Specific Authorization Info

operationId: CreateServiceSpecificAuthorizationInfo

tags:

- Service Specific Authorization Info (Document)

security:

- {}

- oAuth2ClientCredentials:

- nudr-dr

- oAuth2ClientCredentials:

- nudr-dr

- nudr-dr:subscription-data

parameters:

- name: ueId

in: path

required: true

schema:

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

- name: serviceType

in: path

description: Service Type

required: true

schema:

$ref: 'TS29503\_Nudm\_SSAU.yaml#/components/schemas/ServiceType'

requestBody:

content:

application/json:

schema:

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

required: true

responses:

'204':

description: Upon success, an empty response body shall be returned

'201':

description: Upon successful creation, the created resource shall be returned

content:

application/json:

schema:

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

'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'

delete:

summary: Delete Service Specific Authorization Info

operationId: RemoveServiceSpecificAuthorizationInfo

tags:

- Service Specific Authorization Info (Document)

security:

- {}

- oAuth2ClientCredentials:

- nudr-dr

- oAuth2ClientCredentials:

- nudr-dr

- nudr-dr:subscription-data

parameters:

- name: ueId

in: path

required: true

schema:

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

- name: serviceType

in: path

description: Service Type

required: true

schema:

$ref: 'TS29503\_Nudm\_SSAU.yaml#/components/schemas/ServiceType'

responses:

'204':

description: Expected response to a successful subscription removal

'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'

'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: Modify Service Specific Authorization Info

operationId: ModifyServiceSpecificAuthorizationInfo

tags:

- Service Specific Authorization Info (Document)

security:

- {}

- oAuth2ClientCredentials:

- nudr-dr

- oAuth2ClientCredentials:

- nudr-dr

- nudr-dr:subscription-data

parameters:

- name: ueId

in: path

required: true

schema:

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

- name: serviceType

in: path

description: Service Type

required: true

schema:

$ref: 'TS29503\_Nudm\_SSAU.yaml#/components/schemas/ServiceType'

- name: supported-features

in: query

description: Features required to be supported by the target NF

schema:

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

requestBody:

content:

application/json-patch+json:

schema:

type: array

items:

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

required: true

responses:

'204':

description: Expected response to a valid request

'200':

description: Expected response to a valid request

content:

application/json:

schema:

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

'400':

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

'401':

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

'403':

description: modification is rejected

content:

application/problem+json:

schema:

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

'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'

get:

summary: Retrieve Service Specific Authorization Info

operationId: GetServiceSpecificAuthorizationInfo

tags:

- Service Specific Authorization Info (Document)

security:

- {}

- oAuth2ClientCredentials:

- nudr-dr

- oAuth2ClientCredentials:

- nudr-dr

- nudr-dr:subscription-data

parameters:

- name: ueId

in: path

required: true

schema:

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

- name: serviceType

in: path

description: Service Type

required: true

schema:

$ref: 'TS29503\_Nudm\_SSAU.yaml#/components/schemas/ServiceType'

responses:

'200':

description: OK

content:

application/json:

schema:

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

'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'

/subscription-data/{ueId}/context-data/roaming-information:

put:

summary: Update the Roaming Information of the EPC domain

operationId: UpdateRoamingInformation

tags:

- Update the Roaming Information of the EPC domain (Document)

security:

- {}

- oAuth2ClientCredentials:

- nudr-dr

- oAuth2ClientCredentials:

- nudr-dr

- nudr-dr:subscription-data

parameters:

- name: ueId

in: path

description: UE id

required: true

schema:

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

requestBody:

content:

application/json:

schema:

$ref: 'TS29503\_Nudm\_UECM.yaml#/components/schemas/RoamingInfoUpdate'

required: true

responses:

'201':

description: Created

content:

application/json:

schema:

$ref: 'TS29503\_Nudm\_UECM.yaml#/components/schemas/RoamingInfoUpdate'

headers:

Location:

description: 'Contains the URI of the newly created resource, according to the structure: {apiRoot}/nudr-dr/<apiVersion>/subscription-data/{ueId}/context-data/roaming-information'

required: true

schema:

type: string

'204':

description: Upon success, an empty response body shall be returned

'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:

description: Unexpected error

get:

summary: Retrieves the Roaming Information of the EPC domain

operationId: QueryRoamingInformation

tags:

- Retrieve the Roaming Information of the EPC domain (Document)

security:

- {}

- oAuth2ClientCredentials:

- nudr-dr

- oAuth2ClientCredentials:

- nudr-dr

- nudr-dr:subscription-data

parameters:

- name: ueId

in: path

description: UE id

required: true

schema:

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

responses:

'200':

description: Expected response to a valid request

content:

application/json:

schema:

$ref: 'TS29503\_Nudm\_UECM.yaml#/components/schemas/RoamingInfoUpdate'

'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'

/subscription-data/{ueId}/context-data/pei-info:

put:

summary: Update the PEI Information of the 5GC/EPC domains

operationId: CreateOrUpdatePeiInformation

tags:

- Update the PEI Information of the 5GC/EPC domains (Document)

security:

- {}

- oAuth2ClientCredentials:

- nudr-dr

- oAuth2ClientCredentials:

- nudr-dr

- nudr-dr:subscription-data

parameters:

- name: ueId

in: path

description: UE id

required: true

schema:

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

requestBody:

content:

application/json:

schema:

$ref: 'TS29503\_Nudm\_UECM.yaml#/components/schemas/PeiUpdateInfo'

required: true

responses:

'201':

description: Created

content:

application/json:

schema:

$ref: 'TS29503\_Nudm\_UECM.yaml#/components/schemas/PeiUpdateInfo'

headers:

Location:

description: 'Contains the URI of the newly created resource, according to the structure: {apiRoot}/nudr-dr/<apiVersion>/subscription-data/{ueId}/context-data/pei-info'

required: true

schema:

type: string

'204':

description: Upon success, an empty response body shall be returned

'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:

description: Unexpected error

get:

summary: Retrieves the PEI Information of the 5GC/EPC domains

operationId: QueryPeiInformation

tags:

- Retrieve the Roaming Information of the 5GC/EPC domains (Document)

security:

- {}

- oAuth2ClientCredentials:

- nudr-dr

- oAuth2ClientCredentials:

- nudr-dr

- nudr-dr:subscription-data

parameters:

- name: ueId

in: path

description: UE id

required: true

schema:

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

responses:

'200':

description: Expected response to a valid request

content:

application/json:

schema:

$ref: 'TS29503\_Nudm\_UECM.yaml#/components/schemas/PeiUpdateInfo'

'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'

/subscription-data/group-data/{ueGroupId}/ee-subscriptions/{subsId}/amf-subscriptions:

put:

summary: Create AmfSubscriptions for a group of UEs or any UE

operationId: CreateAmfGroupSubscriptions

tags:

- AMF Group Subscription Info (Document)

security:

- {}

- oAuth2ClientCredentials:

- nudr-dr

- oAuth2ClientCredentials:

- nudr-dr

- nudr-dr:subscription-data

parameters:

- name: ueGroupId

in: path

required: true

schema:

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

- name: subsId

in: path

required: true

schema:

type: string

requestBody:

content:

application/json:

schema:

type: array

items:

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

minItems: 1

required: true

responses:

'204':

description: Upon success, an empty response body shall be returned

'201':

description: Upon successful creation, the created resource shall be returned

content:

application/json:

schema:

type: array

items:

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

minItems: 1

'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'

delete:

summary: Deletes AMF Subscription Info for an eeSubscription for a group of UEs or any UE

operationId: RemoveAmfGroupSubscriptions

tags:

- Event AMF Subscription Info (Document)

security:

- {}

- oAuth2ClientCredentials:

- nudr-dr

- oAuth2ClientCredentials:

- nudr-dr

- nudr-dr:subscription-data

parameters:

- name: ueGroupId

in: path

required: true

schema:

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

- name: subsId

in: path

required: true

schema:

type: string

responses:

'204':

description: Expected response to a successful subscription removal

'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'

'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: modify the AMF Subscription Info

operationId: ModifyAmfGroupSubscriptions

tags:

- AmfSubscriptionInfo (Document)

security:

- {}

- oAuth2ClientCredentials:

- nudr-dr

- oAuth2ClientCredentials:

- nudr-dr

- nudr-dr:subscription-data

parameters:

- name: ueGroupId

in: path

required: true

schema:

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

- name: subsId

in: path

required: true

schema:

type: string

- name: supported-features

in: query

description: Features required to be supported by the target NF

schema:

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

requestBody:

content:

application/json-patch+json:

schema:

type: array

items:

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

required: true

responses:

'204':

description: Expected response to a valid request

'200':

description: Expected response to a valid request

content:

application/json:

schema:

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

'400':

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

'401':

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

'403':

description: modification is rejected

content:

application/problem+json:

schema:

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

'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'

get:

summary: Retrieve AMF subscription Info for a group of UEs or any UE

operationId: GetAmfGroupSubscriptions

tags:

- Query AMF Subscription Info (Document)

security:

- {}

- oAuth2ClientCredentials:

- nudr-dr

- oAuth2ClientCredentials:

- nudr-dr

- nudr-dr:subscription-data

parameters:

- name: ueGroupId

in: path

required: true

schema:

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

- name: subsId

in: path

required: true

schema:

type: string

responses:

'200':

description: OK

content:

application/json:

schema:

type: array

items:

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

minItems: 1

'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'

/subscription-data/group-data/{ueGroupId}/ee-subscriptions/{subsId}/smf-subscriptions:

put:

summary: Create SMF Subscription Info for a group of UEs or any YE

operationId: CreateSmfGroupSubscriptions

tags:

- SMF Event Group Subscription Info (Document)

security:

- {}

- oAuth2ClientCredentials:

- nudr-dr

- oAuth2ClientCredentials:

- nudr-dr

- nudr-dr:subscription-data

parameters:

- name: ueGroupId

in: path

required: true

schema:

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

- name: subsId

in: path

required: true

schema:

type: string

requestBody:

content:

application/json:

schema:

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

required: true

responses:

'204':

description: Upon success, an empty response body shall be returned

'201':

description: Upon successful creation, the created resource shall be returned

content:

application/json:

schema:

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

'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'

delete:

summary: Delete SMF Subscription Info for a group of UEs or any UE

operationId: RemoveSmfGroupSubscriptions

tags:

- SMF Event Subscription Info (Document)

security:

- {}

- oAuth2ClientCredentials:

- nudr-dr

- oAuth2ClientCredentials:

- nudr-dr

- nudr-dr:subscription-data

parameters:

- name: ueGroupId

in: path

required: true

schema:

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

- name: subsId

in: path

required: true

schema:

type: string

responses:

'204':

description: Expected response to a successful subscription removal

'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'

'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: Modify SMF Subscription Info for a group of UEs or any UE

operationId: ModifySmfGroupSubscriptions

tags:

- SMF Event Subscription Info (Document)

security:

- {}

- oAuth2ClientCredentials:

- nudr-dr

- oAuth2ClientCredentials:

- nudr-dr

- nudr-dr:subscription-data

parameters:

- name: ueGroupId

in: path

required: true

schema:

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

- name: subsId

in: path

required: true

schema:

type: string

- name: supported-features

in: query

description: Features required to be supported by the target NF

schema:

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

requestBody:

content:

application/json-patch+json:

schema:

type: array

items:

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

required: true

responses:

'204':

description: Expected response to a valid request

'200':

description: Expected response to a valid request

content:

application/json:

schema:

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

'400':

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

'401':

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

'403':

description: modification is rejected

content:

application/problem+json:

schema:

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

'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'

get:

summary: Retrieve SMF Subscription Info for a group of UEs or any UE

operationId: GetSmfGroupSubscriptions

tags:

- SMF Event Subscription Info (Document)

security:

- {}

- oAuth2ClientCredentials:

- nudr-dr

- oAuth2ClientCredentials:

- nudr-dr

- nudr-dr:subscription-data

parameters:

- name: ueGroupId

in: path

required: true

schema:

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

- name: subsId

in: path

required: true

schema:

type: string

responses:

'200':

description: OK

content:

application/json:

schema:

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

'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'

/subscription-data/group-data/{ueGroupId}/ee-subscriptions/{subsId}/hss-subscriptions:

put:

summary: Create HSS Subscription Info for a group of UEs

operationId: CreateHssGroupSubscriptions

tags:

- HSS Event Group Subscription Info (Document)

parameters:

- name: externalGroupId

in: path

required: true

schema:

$ref: 'TS29503\_Nudm\_SDM.yaml#/components/schemas/ExtGroupId'

- name: subsId

in: path

required: true

schema:

type: string

requestBody:

content:

application/json:

schema:

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

required: true

responses:

'204':

description: Upon success, an empty response body shall be returned

'201':

description: Upon successful creation, the created resource shall be returned

content:

application/json:

schema:

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

'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'

delete:

summary: Delete HSS Subscription Info

operationId: RemoveHssGroupSubscriptions

tags:

- HSS Event Subscription Info (Document)

parameters:

- name: externalGroupId

in: path

required: true

schema:

$ref: 'TS29503\_Nudm\_SDM.yaml#/components/schemas/ExtGroupId'

- name: subsId

in: path

required: true

schema:

type: string

responses:

'204':

description: Expected response to a successful subscription removal

'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'

'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: Modify HSS Subscription Info

operationId: ModifyHssGroupSubscriptions

tags:

- HSS Event Subscription Info (Document)

parameters:

- name: externalGroupId

in: path

required: true

schema:

$ref: 'TS29503\_Nudm\_SDM.yaml#/components/schemas/ExtGroupId'

- name: subsId

in: path

required: true

schema:

type: string

- name: supported-features

in: query

description: Features required to be supported by the target NF

schema:

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

requestBody:

content:

application/json-patch+json:

schema:

type: array

items:

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

required: true

responses:

'204':

description: Expected response to a valid request

'200':

description: Expected response to a valid request

content:

application/json:

schema:

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

'400':

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

'401':

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

'403':

description: modification is rejected

content:

application/problem+json:

schema:

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

'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'

get:

summary: Retrieve HSS Subscription Info

operationId: GetHssGroupSubscriptions

tags:

- HSS Event Subscription Info (Document)

parameters:

- name: externalGroupId

in: path

required: true

schema:

$ref: 'TS29503\_Nudm\_SDM.yaml#/components/schemas/ExtGroupId'

- name: subsId

in: path

required: true

schema:

type: string

responses:

'200':

description: OK

content:

application/json:

schema:

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

'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'

/subscription-data/{ueId}/uc-data:

get:

summary: Retrieves the subscribed User Consent Data of a UE

operationId: QueryUserConsentData

tags:

- User Consent Data

security:

- {}

- oAuth2ClientCredentials:

- nudr-dr

- oAuth2ClientCredentials:

- nudr-dr

- nudr-dr:subscription-data

parameters:

- name: ueId

in: path

description: UE id

required: true

schema:

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

- name: supported-features

in: query

description: Supported Features

schema:

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

- name: ucPurpose

in: query

description: User consent purpose

schema:

$ref: 'TS29503\_Nudm\_SDM.yaml#/components/schemas/UcPurpose'

- name: If-None-Match

in: header

description: Validator for conditional requests, as described in RFC 9110, 13.1.2

schema:

type: string

- name: If-Modified-Since

in: header

description: Validator for conditional requests, as described in RFC 9110, 13.1.3

schema:

type: string

responses:

'200':

description: OK

content:

application/json:

schema:

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

headers:

Cache-Control:

description: Cache-Control containing max-age, as described in RFC 9111, 5.2

schema:

type: string

ETag:

description: Entity Tag, containing a strong validator, as described in RFC 9110, 8.8.3

schema:

type: string

Last-Modified:

description: Timestamp for last modification of the resource, as described in RFC 9110, 8.8.2

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'

'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'

/subscription-data/{ueId}/time-sync-data:

get:

summary: Retrieves the time synchronization subscription data of a UE

operationId: QueryTimeSyncSubscriptionData

tags:

- TimeSyncSubscriptionData (Document)

security:

- {}

- oAuth2ClientCredentials:

- nudr-dr

- oAuth2ClientCredentials:

- nudr-dr

- nudr-dr:subscription-data

parameters:

- name: ueId

in: path

description: UE id

required: true

schema:

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

- name: supported-features

in: query

description: Supported Features

schema:

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

- name: If-None-Match

in: header

description: Validator for conditional requests, as described in RFC 9110, 13.1.2

schema:

type: string

- name: If-Modified-Since

in: header

description: Validator for conditional requests, as described in RFC 9110, 13.1.3

schema:

type: string

responses:

'200':

description: Expected response to a valid request

content:

application/json:

schema:

$ref: 'TS29503\_Nudm\_SDM.yaml#/components/schemas/TimeSyncSubscriptionData'

headers:

Cache-Control:

description: Cache-Control containing max-age, as described in RFC 9111, 5.2

schema:

type: string

ETag:

description: Entity Tag, containing a strong validator, as described in RFC 9110, 8.8.3

schema:

type: string

Last-Modified:

description: Timestamp for last modification of the resource, as described in RFC 9110, 8.8.2

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'

'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:

description: Unexpected error

/subscription-data/group-data/mbs-group-membership:

get:

summary: Retrieves the data of a 5G MBS Group

operationId: Query5GmbsGroup

tags:

- 5G-MBS-Group (Store)

security:

- {}

- oAuth2ClientCredentials:

- nudr-dr

- oAuth2ClientCredentials:

- nudr-dr

- nudr-dr:subscription-data

parameters:

- name: gpsis

in: query

description: List of GPSIs

schema:

type: array

items:

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

style: form

explode: false

responses:

'200':

description: Expected response to a valid request

content:

application/json:

schema:

type: object

description: A map(list of key-value pairs) where ExtGroupId serves as key

additionalProperties:

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

'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'

/subscription-data/group-data/mbs-group-membership/{externalGroupId}:

put:

summary: Create an individual 5G MBS Grouop

operationId: Create5GmbsGroup

tags:

- MulticastMbsGroupMemb (Document)

security:

- {}

- oAuth2ClientCredentials:

- nudr-dr

- oAuth2ClientCredentials:

- nudr-dr

- nudr-dr:subscription-data

parameters:

- name: externalGroupId

in: path

required: true

schema:

$ref: 'TS29503\_Nudm\_SDM.yaml#/components/schemas/ExtGroupId'

requestBody:

content:

application/json:

schema:

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

required: true

responses:

'201':

description: Expected response to a valid request

content:

application/json:

schema:

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

'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'

delete:

summary: Deletes the 5GmbsGroup

operationId: Delete5GmbsGroup

tags:

- Delete 5GmbsGroup

security:

- {}

- oAuth2ClientCredentials:

- nudr-dr

- oAuth2ClientCredentials:

- nudr-dr

- nudr-dr:subscription-data

parameters:

- name: externalGroupId

in: path

required: true

schema:

$ref: 'TS29503\_Nudm\_SDM.yaml#/components/schemas/ExtGroupId'

responses:

'204':

description: Expected response to a successful group removal

'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'

'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: modify the 5GmbsGroup

operationId: Modify5GmbsGroup

tags:

- Modify 5GmbsGroup

security:

- {}

- oAuth2ClientCredentials:

- nudr-dr

- oAuth2ClientCredentials:

- nudr-dr

- nudr-dr:subscription-data

parameters:

- name: externalGroupId

in: path

required: true

schema:

$ref: 'TS29503\_Nudm\_SDM.yaml#/components/schemas/ExtGroupId'

- name: supported-features

in: query

description: Features required to be supported by the target NF

schema:

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

requestBody:

content:

application/json-patch+json:

schema:

type: array

items:

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

required: true

responses:

'204':

description: Expected response to a valid request

'200':

description: Expected response to a valid request

content:

application/json:

schema:

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

'400':

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

'401':

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

'403':

description: modification is rejected

content:

application/problem+json:

schema:

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

'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'

get:

summary: Retrieve a 5GmbsGroup

operationId: GetMulticastMbsGroupMemb

tags:

- Query MulticastMbsGroupMemb (Document)

security:

- {}

- oAuth2ClientCredentials:

- nudr-dr

- oAuth2ClientCredentials:

- nudr-dr

- nudr-dr:subscription-data

parameters:

- name: externalGroupId

in: path

required: true

schema:

$ref: 'TS29503\_Nudm\_SDM.yaml#/components/schemas/ExtGroupId'

responses:

'200':

description: OK

content:

application/json:

schema:

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

'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'

/subscription-data/group-data/mbs-group-membership/internal:

get:

summary: Retrieves the data of 5G MBS Group

operationId: Query5GMbsGroupInternal

tags:

- 5G-MBS-Groups-Internal (Document)

parameters:

- name: internal-group-ids

in: query

description: List of Internal Group IDs

required: true

schema:

type: array

items:

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

style: form

explode: false

responses:

'200':

description: Expected response to a valid request

content:

application/json:

schema:

type: object

description: A map (list of key-value pairs) where ExtGroupId serves as key

additionalProperties:

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

'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'

/subscription-data/group-data/mbs-group-membership/pp-profile-data:

get:

summary: Retrieves the parameter provision profile data for 5G MBS Group

operationId: Query5GMbsGroupPPData

tags:

- Parameter Provision profile Data for 5G MBS Group(Document)

security:

- {}

- oAuth2ClientCredentials:

- nudr-dr

- oAuth2ClientCredentials:

- nudr-dr

- nudr-dr:subscription-data

parameters:

- name: ext-group-ids

in: query

description: List of external MBS group identifiers

schema:

type: array

items:

$ref: 'TS29503\_Nudm\_SDM.yaml#/components/schemas/ExtGroupId'

minItems: 1

style: form

explode: false

- name: supported-features

in: query

description: Supported Features

schema:

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

responses:

'200':

description: Expected response to a valid request

content:

application/json:

schema:

$ref: '#/components/schemas/Pp5gMbsGroupProfileData'

'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'

/subscription-data/{ueId}/ranging-slpos-data:

get:

summary: Retrieves the subscribed Ranging and Sidelink Positioning service Data of a UE

operationId: QueryRangingSlPosData

tags:

- Ranging and Sidelink Positioning Service Subscription Data

security:

- {}

- oAuth2ClientCredentials:

- nudr-dr

- oAuth2ClientCredentials:

- nudr-dr

- nudr-dr:subscription-data

parameters:

- name: ueId

in: path

description: UE id

required: true

schema:

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

- name: supported-features

in: query

description: Supported Features

schema:

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

- name: If-None-Match

in: header

description: Validator for conditional requests, as described in RFC 9110, 13.1.2

schema:

type: string

- name: If-Modified-Since

in: header

description: Validator for conditional requests, as described in RFC 9110, 13.1.3

schema:

type: string

responses:

'200':

description: OK

content:

application/json:

schema:

$ref: 'TS29503\_Nudm\_SDM.yaml#/components/schemas/RangingSlPosSubscriptionData'

headers:

Cache-Control:

description: Cache-Control containing max-age, as described in RFC 9111, 5.2

schema:

type: string

ETag:

description: Entity Tag, containing a strong validator, as described in RFC 9110, 8.8.3

schema:

type: string

Last-Modified:

description: Timestamp for last modification of the resource, as described in RFC 9110, 8.8.2

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'

'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'

/subscription-data/{ueId}/a2x-data:

get:

summary: Retrieves the subscribed A2X Data of a UE

operationId: QueryA2xData

tags:

- A2X Subscription Data

security:

- {}

- oAuth2ClientCredentials:

- nudr-dr

- oAuth2ClientCredentials:

- nudr-dr

- nudr-dr:subscription-data

parameters:

- name: ueId

in: path

description: UE id

required: true

schema:

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

- name: supported-features

in: query

description: Supported Features

schema:

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

- name: If-None-Match

in: header

description: Validator for conditional requests, as described in RFC 9110, 13.1.2

schema:

type: string

- name: If-Modified-Since

in: header

description: Validator for conditional requests, as described in RFC 9110, 13.1.3

schema:

type: string

responses:

'200':

description: OK

content:

application/json:

schema:

$ref: '#/components/schemas/A2xSubscriptionData'

headers:

Cache-Control:

description: Cache-Control containing max-age, as described in RFC 9111, 5.2

schema:

type: string

ETag:

description: Entity Tag, containing a strong validator, as described in RFC 9110, 8.8.3

schema:

type: string

Last-Modified:

description: Timestamp for last modification of the resource, as described in RFC 9110, 8.8.2

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'

'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'

components:

schemas:

AuthenticationSubscription:

description: A UE's authentication data.

type: object

required:

- authenticationMethod

properties:

authenticationMethod:

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

encPermanentKey:

type: string

protectionParameterId:

type: string

sequenceNumber:

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

authenticationManagementField:

type: string

pattern: '^[A-Fa-f0-9]{4}$'

algorithmId:

type: string

encOpcKey:

type: string

encTopcKey:

type: string

vectorGenerationInHss:

type: boolean

default: false

hssGroupId:

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

n5gcAuthMethod:

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

rgAuthenticationInd:

type: boolean

default: false

supi:

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

akmaAllowed:

type: boolean

default: false

routingId:

type: string

pattern: '^[0-9]{1,4}$'

SequenceNumber:

description: Contains the SQN.

type: object

properties:

sqnScheme:

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

sqn:

type: string

pattern: '^[A-Fa-f0-9]{12}$'

lastIndexes:

type: object

additionalProperties:

type: integer

minimum: 0

description: A map(list of key-value pairs) where type of node serves as key

indLength:

type: integer

minimum: 0

difSign:

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

SqnScheme:

description: Scheme for generation of Sequence Numbers.

anyOf:

- type: string

enum:

- GENERAL

- NON\_TIME\_BASED

- TIME\_BASED

- type: string

Sign:

description: Sign of the DIF value.

type: string

enum:

- POSITIVE

- NEGATIVE

VarPlmnId:

description: PLMN Id (MCC, MNC) or SNPN Id (MCC, MNC, NID).

type: string

pattern: '^[0-9]{5,6}(-[A-Fa-f0-9]{11})?$'

ProvisionedDatasetNames:

description: The list of names of data sets.

type: array

items:

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

minItems: 1

uniqueItems: true

ProvisionedDataSetName:

description: The name of data set.

anyOf:

- type: string

enum:

- AM

- SMF\_SEL

- SMS\_SUB

- SM

- TRACE

- SMS\_MNG

- LCS\_PRIVACY

- LCS\_MO

- LCS\_BCA

- LCS\_SUB

- V2X

- PROSE

- ODB

- EE\_PROF

- PP\_PROF

- NIDD\_AUTH

- USER\_CONSENT

- MBS

- PP\_DATA

- A2X

- type: string

UeSubscribedDatasetNames:

description: The list of names of data sets.

type: array

items:

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

minItems: 1

uniqueItems: true

UeSubscribedDataSetName:

description: All values defined as ProvisionedDataSetName or ContextDataSetName are applicable

anyOf:

- $ref: '#/components/schemas/ContextDataSetName'

- $ref: '#/components/schemas/ProvisionedDataSetName'

- type: string

enum:

- UE\_UPD\_CONF

ProvisionedDataSets:

description: Contains the provisioned data sets.

type: object

properties:

amData:

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

smfSelData:

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

smsSubsData:

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

smData:

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

traceData:

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

smsMngData:

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

lcsPrivacyData:

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

lcsMoData:

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

lcsSubscriptionData:

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

lcsBcaData:

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

v2xData:

$ref: '#/components/schemas/V2xSubscriptionData'

proseData:

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

odbData:

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

eeProfileData:

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

ppProfileData:

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

niddAuthData:

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

ucData:

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

mbsSubscriptionData:

$ref: 'TS29503\_Nudm\_SDM.yaml#/components/schemas/MbsSubscriptionData'

ppData:

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

a2xData:

$ref: '#/components/schemas/A2xSubscriptionData'

AccessAndMobilitySubscriptionData:

$ref: 'TS29503\_Nudm\_SDM.yaml#/components/schemas/AccessAndMobilitySubscriptionData'

SmfSelectionSubscriptionData:

$ref: 'TS29503\_Nudm\_SDM.yaml#/components/schemas/SmfSelectionSubscriptionData'

VarSnssai:

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

Dnn:

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

SmSubsData:

$ref: 'TS29503\_Nudm\_SDM.yaml#/components/schemas/SmSubsData'

Amf3GppAccessRegistration:

$ref: 'TS29503\_Nudm\_UECM.yaml#/components/schemas/Amf3GppAccessRegistration'

AmfNon3GppAccessRegistration:

$ref: 'TS29503\_Nudm\_UECM.yaml#/components/schemas/AmfNon3GppAccessRegistration'

SmfRegistration:

$ref: 'TS29503\_Nudm\_UECM.yaml#/components/schemas/SmfRegistration'

SmsfRegistration:

$ref: 'TS29503\_Nudm\_UECM.yaml#/components/schemas/SmsfRegistration'

LocationInfo:

$ref: 'TS29503\_Nudm\_UECM.yaml#/components/schemas/LocationInfo'

SmsManagementSubscriptionData:

$ref: 'TS29503\_Nudm\_SDM.yaml#/components/schemas/SmsManagementSubscriptionData'

SmsSubscriptionData:

$ref: 'TS29503\_Nudm\_SDM.yaml#/components/schemas/SmsSubscriptionData'

LcsPrivacyData:

$ref: 'TS29503\_Nudm\_SDM.yaml#/components/schemas/LcsPrivacyData'

LcsMoData:

$ref: 'TS29503\_Nudm\_SDM.yaml#/components/schemas/LcsMoData'

LcsSubscriptionData:

$ref: 'TS29503\_Nudm\_SDM.yaml#/components/schemas/LcsSubscriptionData'

A2xSubscriptionData:

$ref: 'TS29503\_Nudm\_SDM.yaml#/components/schemas/A2xSubscriptionData'

AuthorizationData:

description: NIDD Authorization Information

required:

- authorizationData

properties:

authorizationData:

type: array

items:

$ref: 'TS29503\_Nudm\_NIDDAU.yaml#/components/schemas/UserIdentifier'

minItems: 1

uniqueItems: true

allowedDnnList:

type: array

items:

anyOf:

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

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

allowedSnssaiList:

type: array

items:

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

allowedMtcProviders:

type: array

items:

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

validityTime:

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

EnhancedCoverageRestrictionData:

$ref: 'TS29503\_Nudm\_SDM.yaml#/components/schemas/EnhancedCoverageRestrictionData'

V2xSubscriptionData:

$ref: 'TS29503\_Nudm\_SDM.yaml#/components/schemas/V2xSubscriptionData'

ProseSubscriptionData:

$ref: 'TS29503\_Nudm\_SDM.yaml#/components/schemas/ProseSubscriptionData'

UcSubscriptionData:

$ref: 'TS29503\_Nudm\_SDM.yaml#/components/schemas/UcSubscriptionData'

LcsBroadcastAssistanceTypesData:

$ref: 'TS29503\_Nudm\_SDM.yaml#/components/schemas/LcsBroadcastAssistanceTypesData'

OperatorSpecificDataContainer:

description: Container for operator specific data.

type: object

required:

- dataType

- value

properties:

dataType:

type: string

enum:

- string

- integer

- number

- boolean

- object

- array

dataTypeDefinition:

type: string

value:

oneOf:

- type: string

- type: integer

- type: number

- type: boolean

- type: object

- type: array

supportedFeatures:

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

resetIds:

type: array

items:

type: string

minItems: 1

AuthMethod:

description: Contains the Authentication Method.

anyOf:

- type: string

enum:

- 5G\_AKA

- EAP\_AKA\_PRIME

- EAP\_TLS

- EAP\_TTLS

- NONE

- type: string

PpData:

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

EeSubscription:

$ref: 'TS29503\_Nudm\_EE.yaml#/components/schemas/EeSubscription'

VarUeGroupId:

description: UE group Id or any UE.

type: string

pattern: '^(extgroupid-[^@]+@[^@]+|anyUE)$'

SdmSubscription:

$ref: 'TS29503\_Nudm\_SDM.yaml#/components/schemas/SdmSubscription'

SmfRegList:

description: The list of all the SMF registrations of a UE.

type: array

items:

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

SubscriptionDataSubscriptions:

description: A subscription to notifications.

type: object

required:

- monitoredResourceUris

- callbackReference

properties:

ueId:

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

callbackReference:

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

originalCallbackReference:

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

monitoredResourceUris:

type: array

items:

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

expiry:

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

sdmSubscription:

$ref: 'TS29503\_Nudm\_SDM.yaml#/components/schemas/SdmSubscription'

hssSubscriptionInfo:

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

subscriptionId:

type: string

uniqueSubscription:

type: boolean

supportedFeatures:

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

immediateReport:

type: boolean

default: false

report:

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

additionalDataRefs:

type: array

items:

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

AdditionalDataRef:

description: References to additional data requested to be sent in notifications

type: object

required:

- monitoredResourceUris

- additionalDataUris

properties:

monitoredResourceUris:

type: array

items:

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

minItems: 1

additionalDataUris:

type: array

items:

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

minItems: 1

DataChangeNotify:

description: Container for data which have changed and notification was requested when changed.

type: object

properties:

originalCallbackReference:

type: array

items:

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

minItems: 1

ueId:

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

notifyItems:

type: array

items:

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

minItems: 1

sdmSubscription:

$ref: 'TS29503\_Nudm\_SDM.yaml#/components/schemas/SdmSubscription'

additionalSdmSubscriptions:

type: array

items:

$ref: 'TS29503\_Nudm\_SDM.yaml#/components/schemas/SdmSubscription'

minItems: 1

subscriptionDataSubscriptions:

type: array

items:

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

additionalData:

description: A map (list of key-value pairs where URI serves as key) of Any Type.

type: object

additionalProperties:

oneOf:

- type: string

- type: integer

- type: number

- type: boolean

- type: object

- type: array

minProperties: 1

IdentityData:

description: Identity data corresponds to the provided ueId.

type: object

properties:

supiList:

type: array

items:

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

minItems: 1

gpsiList:

type: array

items:

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

minItems: 1

allowedAfIds:

type: array

items:

type: string

minItems: 1

applicationPortIds:

description: A map (list of key-value pairs where AppPortId serves as key) of GPSIs.

type: object

additionalProperties:

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

minProperties: 1

UeUpdConfData:

description: The complete UE Update Confirmation Data.

type: object

properties:

sorData:

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

upuData:

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

nssaiAckData:

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

cagAckData:

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

SorData:

description: Used to store the status of the latest SOR data update.

type: object

properties:

provisioningTime:

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

ueUpdateStatus:

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

sorXmacIue:

$ref: 'TS29509\_Nausf\_SoRProtection.yaml#/components/schemas/SorMac'

sorMacIue:

$ref: 'TS29509\_Nausf\_SoRProtection.yaml#/components/schemas/SorMac'

meSupportOfSorCmci:

type: boolean

meSupportOfSorSnpnSi:

type: boolean

default: false

meSupportOfSorSnpnSiLs:

type: boolean

default: false

required:

- provisioningTime

- ueUpdateStatus

UpuData:

description: Used to store the status of the latest UPU data update.

type: object

properties:

provisioningTime:

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

ueUpdateStatus:

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

upuXmacIue:

$ref: 'TS29509\_Nausf\_UPUProtection.yaml#/components/schemas/UpuMac'

upuMacIue:

$ref: 'TS29509\_Nausf\_UPUProtection.yaml#/components/schemas/UpuMac'

required:

- provisioningTime

- ueUpdateStatus

NssaiAckData:

description: Used to store the status of the latest NSSAI data update.

type: object

properties:

provisioningTime:

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

ueUpdateStatus:

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

required:

- provisioningTime

- ueUpdateStatus

CagAckData:

description: Used to store the status of the latest CAG data update.

type: object

properties:

provisioningTime:

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

ueUpdateStatus:

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

required:

- provisioningTime

- ueUpdateStatus

UeUpdateStatus:

description: Status of the procedure.

type: string

enum:

- NOT\_SENT

- SENT\_NO\_ACK\_REQUIRED

- WAITING\_FOR\_ACK

- ACK\_RECEIVED

- NEGATIVE\_ACK\_RECEIVED

EeProfileData:

description: Event Exposure Profile Data.

type: object

properties:

restrictedEventTypes:

type: array

items:

$ref: 'TS29503\_Nudm\_EE.yaml#/components/schemas/EventType'

supportedFeatures:

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

allowedMtcProvider:

description: A map (list of key-value pairs where EventType serves as key) of MTC provider lists. In addition to defined EventTypes, the key value "ALL" may be used to identify a map entry which contains a list of MtcProviders that are allowed monitoring all Event Types.

type: object

additionalProperties:

type: array

items:

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

minItems: 1

minProperties: 1

iwkEpcRestricted:

type: boolean

default: false

imsi:

type: string

pattern: '^[0-9]{5,15}$'

hssGroupId:

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

AmfSubscriptionInfo:

description: Information the UDR stores and retrieves related to active subscriptions at the AMF(s).

type: object

required:

- amfInstanceId

- subscriptionId

properties:

amfInstanceId:

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

subscriptionId:

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

subsChangeNotifyCorrelationId:

type: string

contextInfo:

$ref: 'TS29503\_Nudm\_SDM.yaml#/components/schemas/ContextInfo'

ContextDatasetNames:

description: The name of context data set.

type: array

items:

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

minItems: 2

uniqueItems: true

ContextDataSetName:

anyOf:

- type: string

enum:

- AMF\_3GPP

- AMF\_NON\_3GPP

- SDM\_SUBSCRIPTIONS

- EE\_SUBSCRIPTIONS

- SMSF\_3GPP

- SMSF\_NON\_3GPP

- SUBS\_TO\_NOTIFY

- SMF\_REG

- IP\_SM\_GW

- ROAMING\_INFO

- PEI\_INFO

- type: string

ContextDataSets:

description: Contains the context data sets.

type: object

properties:

amf3Gpp:

$ref: '#/components/schemas/Amf3GppAccessRegistration'

amfNon3Gpp:

$ref: '#/components/schemas/AmfNon3GppAccessRegistration'

sdmSubscriptions:

type: array

items:

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

minItems: 1

eeSubscriptions:

type: array

items:

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

minItems: 1

smsf3GppAccess:

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

smsfNon3GppAccess:

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

subscriptionDataSubscriptions:

type: array

items:

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

minItems: 1

smfRegistrations:

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

ipSmGw:

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

roamingInfo:

$ref: 'TS29503\_Nudm\_UECM.yaml#/components/schemas/RoamingInfoUpdate'

peiInfo:

$ref: 'TS29503\_Nudm\_UECM.yaml#/components/schemas/PeiUpdateInfo'

IpSmGwRegistration:

$ref: 'TS29503\_Nudm\_UECM.yaml#/components/schemas/IpSmGwRegistration'

MessageWaitingData:

description: Message Waiting Data list.

type: object

properties:

mwdList:

type: array

items:

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

minItems: 1

SmscData:

description: Addresses of SM-Service Center entities with SMS wating to be delivered to the UE.

type: object

anyOf:

- required: [ smscMapAddress ]

- required: [ smscDiameterAddress ]

properties:

smscMapAddress:

$ref: 'TS29503\_Nudm\_UECM.yaml#/components/schemas/E164Number'

smscDiameterAddress:

$ref: 'TS29503\_Nudm\_UECM.yaml#/components/schemas/NetworkNodeDiameterAddress'

SmfSubscriptionInfo:

description: Information related to active subscriptions at the SMF(s)

type: object

required:

- smfSubscriptionList

properties:

smfSubscriptionList:

type: array

items:

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

minItems: 1

SmfSubscriptionItem:

description: Contains info about a single SMF event subscription

type: object

required:

- smfInstanceId

- subscriptionId

properties:

smfInstanceId:

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

subscriptionId:

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

contextInfo:

$ref: 'TS29503\_Nudm\_SDM.yaml#/components/schemas/ContextInfo'

MtcProvider:

description: MTC provider information.

type: object

properties:

mtcProviderInformation:

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

afId:

type: string

HssSubscriptionInfo:

description: Information related to active subscriptions at the HSS(s)

type: object

required:

- hssSubscriptionList

properties:

hssSubscriptionList:

type: array

items:

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

minItems: 1

HssSubscriptionItem:

description: Contains info about a single HSS event subscription

type: object

required:

- hssInstanceId

- subscriptionId

properties:

hssInstanceId:

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

subscriptionId:

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

contextInfo:

$ref: 'TS29503\_Nudm\_SDM.yaml#/components/schemas/ContextInfo'

EeGroupProfileData:

type: object

properties:

restrictedEventTypes:

type: array

items:

$ref: 'TS29503\_Nudm\_EE.yaml#/components/schemas/EventType'

allowedMtcProvider:

description: A map (list of key-value pairs where EventType serves as key) of MTC provider lists. In addition to defined EventTypes, the key value "ALL" may be used to identify a map entry which contains a list of MtcProviders that are allowed monitoring all Event Types.

type: object

additionalProperties:

type: array

items:

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

minItems: 1

minProperties: 1

supportedFeatures:

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

iwkEpcRestricted:

type: boolean

default: false

extGroupId:

type: string

pattern: '^extgroupid-[^@]+@[^@]+$'

hssGroupId:

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

Pp5gVnGroupProfileData:

type: object

properties:

allowedMtcProviders:

description: A map (list of key-value pairs where external VN group identifier serves as key) of AllowedMtcProviderInfo lists. In addition to defined external VN group identifier, the key value "ALL" may be used to identify a map entry which contains a list of AllowedMtcProviderInfo that are allowed operating all the external group identifiers.

type: object

additionalProperties:

type: array

items:

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

minItems: 1

minProperties: 1

supportedFeatures:

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

PpProfileData:

type: object

properties:

allowedMtcProviders:

description: A map (list of key-value pairs where PpDataType serves as key) of AllowedMtcProviderInfo lists. In addition to defined PpDataType, the key value "ALL" may be used to identify a map entry which contains a list of AllowedMtcProviderInfo that are allowed to provision all types of the PP data for the user using UDM ParameterProvision service.

type: object

additionalProperties:

type: array

items:

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

minItems: 1

minProperties: 1

supportedFeatures:

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

AllowedMtcProviderInfo:

type: object

properties:

mtcProviderInformation:

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

afId:

type: string

PpDataType:

anyOf:

- type: string

enum:

- COMMUNICATION\_CHARACTERISTICS

- EXPECTED\_UE\_BEHAVIOUR

- EC\_RESTRICTION

- ACS\_INFO

- TRACE

- STN\_SR

- LCS\_PRIVACY

- SOR\_INFO

- type: string

GroupIdentifiers:

description: External or Internal Group Identifier with a list of group members

type: object

properties:

extGroupId:

$ref: 'TS29503\_Nudm\_SDM.yaml#/components/schemas/ExtGroupId'

intGroupId:

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

ueIdList:

type: array

items:

$ref: 'TS29503\_Nudm\_SDM.yaml#/components/schemas/UeId'

minItems: 1

allowedAfIds:

type: array

items:

type: string

minItems: 1

NiddAuthorizationInfo:

description: Information related to active NIDD Authorizations

type: object

required:

- niddAuthorizationList

properties:

niddAuthorizationList:

type: array

items:

$ref: 'TS29503\_Nudm\_NIDDAU.yaml#/components/schemas/AuthorizationInfo'

minItems: 1

PpDataEntryList:

description: Contains a list of the Provisioned Parameters entries

type: object

properties:

ppDataEntryList:

type: array

items:

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

supportedFeatures:

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

UeSubscribedDataSets:

description: Contains the subscribed data sets of a UE.

allOf:

- $ref: '#/components/schemas/ProvisionedDataSets'

- $ref: '#/components/schemas/ContextDataSets'

- $ref: '#/components/schemas/UeUpdConfData'

ServiceSpecificAuthorizationInfo:

description: Information related to active Service Specific Authorizations

type: object

required:

- serviceSpecificAuthorizationList

properties:

serviceSpecificAuthorizationList:

type: array

items:

$ref: 'TS29503\_Nudm\_NIDDAU.yaml#/components/schemas/AuthorizationInfo'

minItems: 1

NfIdentifier:

type: object

required:

- nfType

properties:

nfType:

$ref: 'TS29510\_Nnrf\_NFManagement.yaml#/components/schemas/NFType'

nfInstanceId:

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

EeSubscriptionExt:

allOf:

- $ref: 'TS29503\_Nudm\_EE.yaml#/components/schemas/EeSubscription'

- $ref: '#/components/schemas/AdditionalEeSubsInfo'

AdditionalEeSubsInfo:

type: object

properties:

amfSubscriptionInfoList:

type: array

items:

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

minItems: 1

maxItems: 2

smfSubscriptionInfo:

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

hssSubscriptionInfo:

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

ImmediateReport:

oneOf:

- $ref: '#/components/schemas/ProvisionedDataSets'

- type: array

items:

$ref: 'TS29503\_Nudm\_SDM.yaml#/components/schemas/SharedData'

minItems: 0

Pp5gMbsGroupProfileData:

type: object

properties:

allowedMbsInfos:

description: A map (list of key-value pairs where external VN group identifier serves as key) of AllowedMbsInfos lists. In addition to defined external MBS group identifier, the key value "ALL" may be used to identify a map entry which contains a list of AllowedMbsInfo that are allowed operating all the external group identifiers.

type: object

additionalProperties:

type: array

items:

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

minItems: 1

minProperties: 1

supportedFeatures:

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

AllowedMbsInfo:

type: object

properties:

afId:

type: string

TraceDataOrSharedTraceDataId:

oneOf:

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

- $ref: 'TS29503\_Nudm\_SDM.yaml#/components/schemas/SharedDataId'

Annex B (informative):  
Change history

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Change history** | | | | | | | |
| **Date** | **Meeting** | **TDoc** | **CR** | **Rev** | **Cat** | **Subject/Comment** | **New version** |
| 2018-01 | CT4#82 |  |  |  |  | TS skeleton of Usage of the Unified Data Repository service for Subscription Data | 0.0.0 |
| 2018-01 | CT4#82 | C4-181397 |  |  |  | Version after CT4#82 including agreed pCRs | 0.1.0 |
| 2018-03 | CT4#83 | C4-182442 |  |  |  | Version after CT4#83 including agreed pCRs | 0.2.0 |
| 2018-04 | CT4#84 | C4-183523 |  |  |  | Version after CT4#84 including agreed pCRs | 0.3.0 |
| 2018-05 | CT4#85 | C4-184638 |  |  |  | Version after CT4#85 including agreed pCRs | 0.4.0 |
| 2018-06 | CT#80 | CP-181103 |  |  |  | Presented for information and approval | 1.0.0 |
| 2018-06 | CT#80 |  |  |  |  | Approved in CT#80. | 15.0.0 |
| 2018-09 | CT#81 | CP-182058 | 0004 | - | F | Path Segment Correction | 15.1.0 |
| 2018-09 | CT#81 | CP-182058 | 0005 | - | F | URI variables for the Resource OperatorSpecificData | 15.1.0 |
| 2018-09 | CT#81 | CP-182058 | 0008 | - | F | Formatting of query parameter | 15.1.0 |
| 2018-09 | CT#81 | CP-182212 | 0009 | 2 | B | PATCH method for ProvisionedParamenterData | 15.1.0 |
| 2018-09 | CT#81 | CP-182058 | 0010 | - | F | JSON structure in query and missing data type reference | 15.1.0 |
| 2018-09 | CT#81 | CP-182058 | 0014 | - | F | Description of Structured data types | 15.1.0 |
| 2018-09 | CT#81 | CP-182058 | 0016 | - | F | Implicit Subscriptions | 15.1.0 |
| 2018-09 | CT#81 | CP-182058 | 0011 | 1 | F | Align security and servers clause in openAPI | 15.1.0 |
| 2018-09 | CT#81 | CP-182058 | 0013 | 1 | F | VarUeId used in TS 29.505 | 15.1.0 |
| 2018-09 | CT#81 | CP-182058 | 0012 | 2 | F | OpenAPI schema for SubscriptionData | 15.1.0 |
| 2018-09 | CT#81 | CP-182058 | 0018 | 1 | F | Supported Features Negotiation | 15.1.0 |
| 2018-09 | CT#81 | CP-182041 | 0015 | 1 | B | Nudr Id Translation | 15.1.0 |
| 2018-09 | CT#81 | CP-182043 | 0001 | 2 | B | Add support for 5G Trace to Nudr | 15.1.0 |
| 2018-12 | CT#82 | CP-183016 | 0026 | - | F | Corrections in Query Parameters | 15.2.0 |
| 2018-12 | CT#82 | CP-183016 | 0030 | - | F | 29505 CR data change notification data type | 15.2.0 |
| 2018-12 | CT#82 | CP-183016 | 0021 | 1 | F | Pattern correction | 15.2.0 |
| 2018-12 | CT#82 | CP-183016 | 0022 | 1 | F | Session Management Subscription Data | 15.2.0 |
| 2018-12 | CT#82 | CP-183016 | 0019 | 1 | F | Shared Data | 15.2.0 |
| 2018-12 | CT#82 | CP-183016 | 0029 | 1 | F | 29505 CR cardinality | 15.2.0 |
| 2018-12 | CT#82 | CP-183016 | 0025 | 2 | F | Clarification of contents of SUPI list | 15.2.0 |
| 2018-12 | CT#82 | CP-183016 | 0032 | - | F | Cache control and conditional request header addition | 15.2.0 |
| 2018-12 | CT#82 | CP-183016 | 0024 | 3 | F | Introduction of Barring of Roaming in 5GC | 15.2.0 |
| 2018-12 | CT#82 | CP-183016 | 0037 | 1 | F | Session Management Subscription Data | 15.2.0 |
| 2018-12 | CT#82 | CP-183016 | 0039 | 1 | F | Authorized Event Types | 15.2.0 |
| 2018-12 | CT#82 | CP-183016 | 0040 | 1 | F | Group Subscriptions | 15.2.0 |
| 2018-12 | CT#82 | CP-183016 | 0041 | 1 | F | Location header in 201 response | 15.2.0 |
| 2018-12 | CT#82 | CP-183016 | 0038 | 2 | F | Active AmfSubscriptions storage | 15.2.0 |
| 2018-12 | CT#82 | CP-183016 | 0036 | 2 | F | lifetime of subscription | 15.2.0 |
| 2018-12 | CT#82 | CP-183158 | 0028 | 3 | F | Definition of Authentication Data for steering of roaming | 15.2.0 |
| 2018-12 | CT#82 | CP-183159 | 0027 | 4 | F | Definition of Authentication Status | 15.2.0 |
| 2018-12 | CT#82 | CP-183160 | 0020 | 5 | F | Definition of Authentication data | 15.2.0 |
| 2018-12 | CT#82 | CP-183187 | 0023 | 3 | F | Get multiple datasets for ProvisionedData | 15.2.0 |
| 2018-12 | CT#82 | CP-183249 | 0042 | - | F | Corrections on openAPI | 15.2.0 |
| 2019-03 | CT#83 | CP-190179 | 0043 |  | F | CR 0019r1 was not correctly implemented | 15.3.0 |
| 2019-03 | CT#83 | CP-190179 | 0044 |  | F | CR 0020r5 was not correctly implemented | 15.3.0 |
| 2019-03 | CT#83 | CP-190179 | 0045 |  | F | CR 0021r1 was not correctly implemented | 15.3.0 |
| 2019-03 | CT#83 | CP-190179 | 0046 |  | F | CR 0023r3 was not correctly implemented | 15.3.0 |
| 2019-03 | CT#83 | CP-190179 | 0047 |  | F | CR 0038r2 was not correctly implemented | 15.3.0 |
| 2019-03 | CT#83 | CP-190179 | 0048 |  | F | CR 0039r1 was not correctly implemented | 15.3.0 |
| 2019-03 | CT#83 | CP-190179 | 0049 |  | F | CR 0040r1 was not correctly implemented | 15.3.0 |
| 2019-03 | CT#83 | CP-190179 | 0050 |  | F | Correction of annex B | 15.3.0 |
| 2019-03 | CT#83 | CP-190179 | 0052 | 2 | F | Clarification on use of PUT | 15.3.0 |
| 2019-03 | CT#83 | CP-190179 | 0054 |  | F | Missing Headlines | 15.3.0 |
| 2019-03 | CT#83 | CP-190179 | 0055 | 2 | F | Sequence Number | 15.3.0 |
| 2019-03 | CT#83 | CP-190179 | 0056 | 1 | F | Retrieval of multiple context data sets | 15.3.0 |
| 2019-03 | CT#83 | CP-190179 | 0057 | 3 | F | UDR Subscriptions | 15.3.0 |
| 2019-03 | CT#83 | CP-190179 | 0058 | 1 | F | Data Set Names in URI Query Parameters | 15.3.0 |
| 2019-03 | CT#83 | CP-190179 | 0060 | 2 | F | AuthenticationSubscription correction | 15.3.0 |
| 2019-03 | CT#83 | CP-190179 | 0061 | 2 | F | SOR data update status | 15.3.0 |
| 2019-03 | CT#83 | CP-190168 | 0062 | 1 | F | 3GPP TS 29.505 API version update | 15.3.0 |
| 2019-06 | CT#84 | CP-191032 | 0065 |  | F | CR 0049 was not correctly implemented | 15.4.0 |
| 2019-06 | CT#84 | CP-191032 | 0066 |  | F | CR 0050 was not correctly implemented | 15.4.0 |
| 2019-06 | CT#84 | CP-191032 | 0067 |  | F | CR 0054 was not correctly implemented | 15.4.0 |
| 2019-06 | CT#84 | CP-191032 | 0068 |  | F | CR 0056r1 was not correctly implemented | 15.4.0 |
| 2019-06 | CT#84 | CP-191032 | 0070 |  | F | Update of the SubsToNotify | 15.4.0 |
| 2019-06 | CT#84 | CP-191032 | 0071 |  | F | Update of the EESubscription | 15.4.0 |
| 2019-06 | CT#84 | CP-191032 | 0064 | 1 | F | Update Individual Subscription | 15.4.0 |
| 2019-06 | CT#84 | CP-191032 | 0072 | 1 | F | missing enties of data type summary table | 15.4.0 |
| 2019-06 | CT#84 | CP-191032 | 0073 | 1 | F | correction on operationId | 15.4.0 |
| 2019-06 | CT#84 | CP-191032 | 0074 | 1 | F | 404 error response | 15.4.0 |
| 2019-06 | CT#84 | CP-191032 | 0076 | 1 | F | Correct the GET Request Body of AmfNon3GppAccessRegistration resource | 15.4.0 |
| 2019-06 | CT#84 | CP-191032 | 0077 | 1 | F | Default Notification URI | 15.4.0 |
| 2019-06 | CT#84 | CP-191032 | 0081 | 1 | F | OdbData Correction | 15.4.0 |
| 2019-06 | CT#84 | CP-191032 | 0086 | 2 | F | Storage of OpenAPI specification files | 15.4.0 |
| 2019-06 | CT#84 | CP-191032 | 0075 | 3 | F | CR 0062r1 was not correctly implemented | 15.4.0 |
| 2019-06 | CT#84 | CP-191032 | 0079 | 2 | F | Subscriptions Deletion | 15.4.0 |
| 2019-06 | CT#84 | CP-191032 | 0087 |  | F | PduSessionId | 15.4.0 |
| 2019-06 | CT#84 | CP-191032 | 0063 | 2 | F | UE Parameter Update (UPU) | 15.4.0 |
| 2019-06 | CT#84 | CP-191032 | 0078 | 2 | F | Group Identifier Translation | 15.4.0 |
| 2019-06 | CT#84 | CP-191032 | 0080 | 2 | F | Authentication Subscription | 15.4.0 |
| 2019-06 | CT#84 | CP-191032 | 0069 | 2 | F | CR 0062r1 was not correctly implemented | 15.4.0 |
| 2019-06 | CT#84 | CP-191032 | 0088 | 1 | F | Protection Parameter ID | 15.4.0 |
| 2019-06 | CT#84 | CP-191032 | 0089 | 1 | F | Copyright Note in YAML file | 15.4.0 |
| 2019-06 | CT#84 | CP-191032 | 0083 | 6 | F | SubscriptionDataSubscriptions identification | 15.4.0 |
| 2019-09 | CT#85 | CP-192229 | 0094 | 1 | B | Definition of OperatorSpecificDataContainer | 16.0.0 |
| 2019-09 | CT#85 | CP-192123 | 0100 | - | F | Missing supportedFeatures | 16.0.0 |
| 2019-09 | CT#85 | CP-192123 | 0090 | 1 | B | Network Slicing Subscription Change | 16.0.0 |
| 2019-09 | CT#85 | CP-192123 | 0098 | 1 | F | UDR Application Errors | 16.0.0 |
| 2019-09 | CT#85 | CP-192123 | 0101 | 1 | B | Application errors for DELETE method | 16.0.0 |
| 2019-09 | CT#85 | CP-192133 | 0095 | 1 | B | Closed Access Group | 16.0.0 |
| 2019-09 | CT#85 | CP-192027 | 0096 | 2 | B | VN-Group parameter provisioning | 16.0.0 |
| 2019-09 | CT#85 | CP-192120 | 0104 | - | F | 3GPP TS 29.505 externalDoc correction | 16.0.0 |
| 2019-10 |  |  |  |  |  | Corrupted references fixed | 16.0.1 |
| 2019-12 | CT#86 | CP-193029 | 0108 |  | A | Monitored Resurce URI | 16.1.0 |
| 2019-12 | CT#86 | CP-193029 | 0263 | 1 | A | GroupIdentifier resource URI | 16.1.0 |
| 2019-12 | CT#86 | CP-193049 | 0112 | 1 | B | Id translation for MSISDN-less MO SMS service | 16.1.0 |
| 2019-12 | CT#86 | CP-193278 | 0258 | 4 | B | NIDD Authorization Data | 16.1.0 |
| 2019-12 | CT#86 | CP-193131 | 0257 | 1 | B | Authentication Subscription Data | 16.1.0 |
| 2019-12 | CT#86 | CP-193055 | 0109 | 2 | B | LCS Private | 16.1.0 |
| 2019-12 | CT#86 | CP-193055 | 0110 | 3 | B | Mobile Originated Data | 16.1.0 |
| 2019-12 | CT#86 | CP-193063 | 0105 | 1 | F | DataChangeNotify | 16.1.0 |
| 2019-12 | CT#86 | CP-193063 | 0106 | 1 | B | Patch Report | 16.1.0 |
| 2019-12 | CT#86 | CP-193063 | 0259 | 1 | B | Feature Negotiation for OperatorSpecificData resource | 16.1.0 |
| 2019-12 | CT#86 | CP-193124 | 0265 | - | F | externalDocs correction | 16.1.0 |
| 2020-03 | CT#87 | CP-200018 | 0269 |  | B | Translation of Group Id to UE identifier list | 16.2.0 |
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