ETSITS 129 505 V17.10.0 (2023-07)



5G; 5G System; Usage of the Unified Data Repository services for Subscription Data; Stage 3 (3GPP TS 29.505 version 17.10.0 Release 17)



Reference
RTS/TSGC-0429505vha0

Keywords
5G

ETSI

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Foreword

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

The contents of the present document are subject to continuing work within the TSG and may change following formal TSG approval. Should the TSG modify the contents of the present document, it will be re-released by the TSG with an identifying change of release date and an increase in version number as follows:

Version x.y.z

where:

- x the first digit:
 - 1 presented to TSG for information;
 - 2 presented to TSG for approval;
 - 3 or greater indicates TSG approved document under change control.
- 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 somethingshall 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 possiblecannot 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

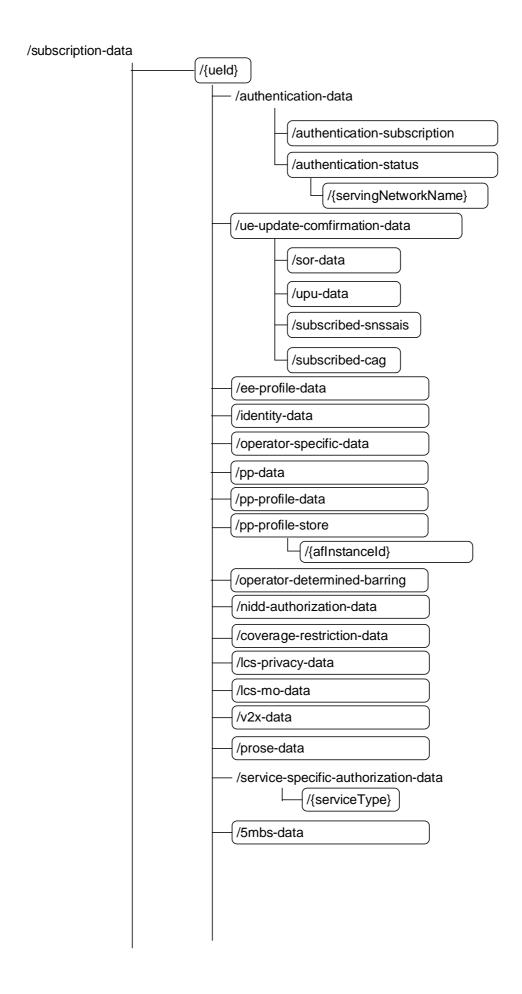


Figure 5.2.1-1: Resource URI sub-level structure for subscription data

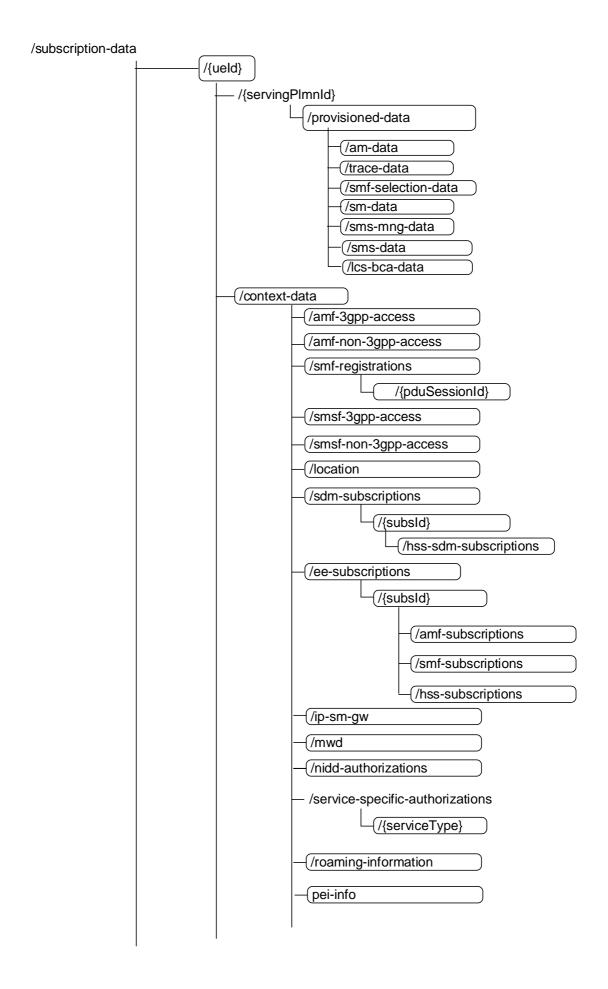


Figure 5.2.1-2: Resource URI sub-level structure for subscription data (cont.)

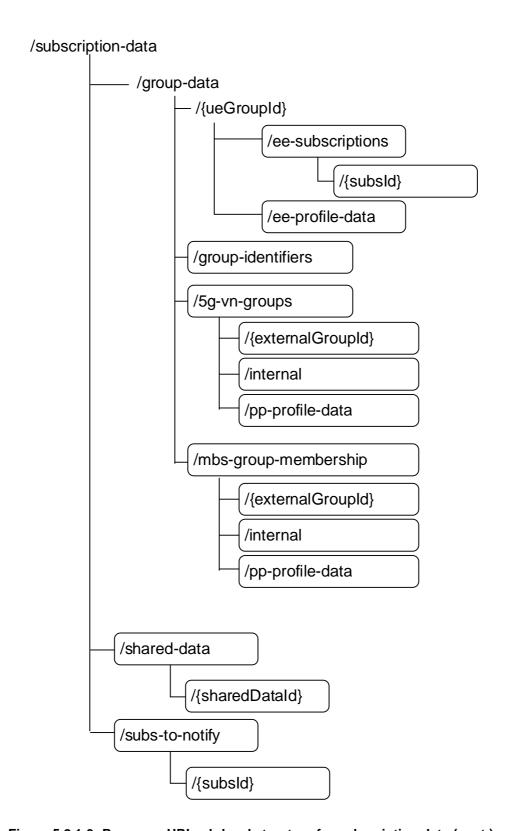


Figure 5.2.1-3: Resource URI sub-level structure for subscription data (cont.)

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/{ueld}/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.
AuthenticationSoR (Document)	/subscription-data/{ueld}/ue-update- confirmation-data/sor-data	Υ	PUT	Store UE's SOR acknowledgement information (SoR-XMAC- IUE) and "ME support of SOR-CMCI"
			GET	Retrieve UE's SoR acknowledgement information, "ME support of SOR-CMCI"
			PATCH	Update "ME support of SOR-CMCI"
AuthenticationUPU (Document)	/subscription-data/{ueld}/ue-update- confirmation-data/upu-data	Y	PUT	Store UE Parameter Update acknowledgement information (UPU- XMAC-IUE)
			GET	Retrieve UÉ Parameter Update acknowledgement information
SubscribedSNSSAIs (Document)	/subscription-data/{ueld}/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/{ueld}/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/{ueld}/authentication-data/authentication-status	N	PUT	Store a UE's authentication status
			GET DELETE	Retrieve a UE's authentication status Delete a UE's
				authentication status

		Υ	PUT	When the feature "PerUePerSnAuthStatus" is supported, store a UE's Individual authentication status
IndividualAuthenticationStatus (Document)	/subscription-data/{ueld}/authentication-data/authentication-status/{servingNetworkName}		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/{ueld}/{servingPlmnId}/provisioned- data	N	GET	Retrieve the UE's subscribed Provisioned Data
AccessAndMobilitySubscriptionData (Document)	/subscription- data/{ueld}/{servingPlmnId}/provisioned- data/am-data	Υ	GET	Retrieve the UE's subscribed Access and Mobility Data
SmfSelectionSubscriptionData (Document)	/subscription-data/{ueld}/{servingPlmnld}/provisioned-data/smf-selection-subscription-data	Y	GET	Retrieve the UE's subscribed SMF Selection Data
SessionManagementSubscriptionData (Document)	/subscription- data/{ueld}/{servingPlmnId}/provisioned- data/sm-data	Υ	GET	Retrieve the UE's subscribed SM Subscription Data
ContextData (Document)	/subscription-data/{ueld}/context-data	N	GET	Retrieve the UE's context Data
,		Υ	PUT	Create and Update the AMF registration for 3GPP access
Amf3GppAccessRegistration (Document)	/subscription-data/{ueld}/context-data/amf-3gpp-access		PATCH	Modify the AMF registration for 3GPP access
			GET	Retrieve the AMF registration information for 3GPP access
		Y	PUT	Update the AMF registration for non 3GPP access
AmfNon3GppAccessRegistration (Document)	/subscription-data/{ueld}/context-data/amf-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/{ueld}/context-data/smf-registrations	Υ	GET	Retrieve the list of the SMF registrations
		Υ	PUT	Store an individual SMF registration identified by PDU Session Id
IndividualSmfRegistration (Document)	/subscription-data/{ueld}/context-data /smf-registrations/{pduSessionId}		DELETE	Delete an individual SMF registration
(regionalismo (padessoloma)		GET	Retrieve individual SMF registration
		V	PATCH	Modify the individual SMF registration
		Y	GET	retrieve the operator specific subscription data of a UE
OperatorSpecificData (Document)	/subscription-data/{ueld}/operator- specific-data		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/{ueld}/operator- determined-barring-data	Υ	GET	Retrieve the UE's Operator Determined Barring
SMSManagementSubscriptionData (Document)	/subscription- data/{ueld}/{servingPlmnId}/provisioned- data/sms-mng-data	Y	GET	Retrieve the UE's subscribed SMS management subscription data.
		Υ	PUT	Create or Update the SMSF registration
Smsf3GppAccessRegistration (Document)	/subscription-data/{ueld}/context-data /smsf-3gpp-access		DELETE	Delete the SMSF registration for 3GPP access
			GET	Retrieve the SMSF registration information
		Υ	PUT	Create or Update the SMSF registration for non 3GPP access
SmsfNon3GppAccessRegistration (Document)	/subscription-data/{ueld}/context-data /smsf-non-3gpp-access		DELETE	Delete the SMSF registration for non 3GPP access
			GET	Retrieve the SMSF registration information for non 3GPP access
		Υ	PUT	Create or Update the IP- SM-GW registration
lpSmGwRegistration	/subscription-data/{ueld}/context- data/ip-sm-gw		DELETE	Delete the IP-SM-GW registration
(Document)			PATCH	Modify the IP-SM-GW registration
			GET	Retrieve the IP-SM-GW registration information
		Υ	PUT	Create or Update the SMS Message Waiting Data
MessageWaitingData (Document)	/subscription-data/{ueld}/context-data/mwd		DELETE	Delete the SMS Message Waiting Data
(Document)			PATCH GET	Modify the SMS Message Waiting Data
			GET	Retrieve the SMS Message Waiting Data
SdmSubscriptions (Collection)	/subscription-data/{ueld}/context-data/sdm-subscriptions	N	GET	Retrieve SDM subscriptions
			POST	Create an individual SDM subscription
IndividualSdmSubscription (Document)	/subscription-data/{ueld}/context-data/sdm-subscriptions/{subsld}	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/{ueld}/context- data/sdm-subscriptions/{subsId}/hss- sdm-subscriptions	N	PUT	Store information related to the Hss-SDM-Subscriptions
	, i		DELETE	Delete the Hss-SDM- subscriptions
			GET	Retrieve Hss-SDM- subscriptions
			PATCH	Update Hss-SDM- subscriptions

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EeSubscriptions (Collection)	/subscription-data/{ueld}/context- data/ee-subscriptions	N	GET	Retrieve EE
(Collection)	data/ee-subscriptions		POST	subscriptions Create an EE
			F031	subscription
IndividualEeSubscription	/subscription-data/{ueld}/context-	N	PUT	Update an individual EE
(Document)	data/ee-subscriptions/{subsId}			subscription
			DELETE	Delete an individual EE
				subscription
			PATCH	Update an individual EE
			GET	subscription Retrieve an individual EE
			GET	subscription
AmfSubscriptionInfo	/subscription-data/{ueld}/context-	N	PUT	Store information related
(Document)	data/ee-subscriptions/{subsId}/amf-			to the Amf-EE-
	subscriptions			Subscription response
			DELETE	Delete the Amf-EE-
			OFT	subscriptions
			GET	Retrieve AMF- subscriptions
			PATCH	Update AMF-
				subscriptions
SmfSubscriptionInfo	/subscription-data/{ueld}/context-	N	PUT	Store information related
(Document)	data/ee-subscriptions/{subsId}/smf-			to the received Smf-EE-
	subscriptions		DELETE	Subscription response
			DELETE	Delete the Smf-EE- subscriptions
			GET	Retrieve SMF-
			OL1	subscriptions
			PATCH	Update SMF-
				subscriptions
HssSubscriptionInfo	/subscription-data/{ueld}/context-	N	PUT	Store information related
(Document)	data/ee-subscriptions/{subsId}/hss-			to the Hss-EE-
	subscriptions		DELETE	Subscriptions Delete the Hss-EE-
			DELETE	subscriptions
			GET	Retrieve Hss-EE-
				subscriptions
			PATCH	Update Hss-EE-
Ta Drafila Data	/ob.o.griptiondoto/(o.ld)/o.o.grafilodoto	V	CET	subscriptions Retrieve the UE's
EeProfileData (Document)	/subscription-data/{ueld}/ee-profile-data	Υ	GET	subscribed EE profile
(Document)				data.
ProvisionedParamenterData	/subscription-data/{ueld}/pp-data	у	PATCH	Update of provisioned
(Document)				parameters.
			GET	Retrieves the UE's
D- D #1- D-4-	/	\ <u>'</u>	OFT	provisioned parameters.
PpProfileData (Document)	/subscription-data/{ueld}/pp-profile-data	Υ	GET	Retrieve the UE's subscribed PP profile
(Document)				data.
ProvisionedParameterDataEntries	/subscription-data/{ueld}/pp-data-store	Υ	GET	Retrieve a Provisioned
(Store)				Parameter Data of
				multiple Entries
ProvisionedParameterDataEntry	/subscription-data/{ueld}/pp-data-	Υ	PUT	Create a Provisioned
(Document)	store/{afInstanceId}		DELETE	Parameter Data Entry Delete a Provisioned
			DELETE	Parameter Data Entry
			GET	Retrieve a Provisioned
				Parameter Data Entry
SMSSubscriptionData	/subscription-	Υ	GET	Retrieve the UE's
(Document)	data/{ueld}/{servingPlmnId}/provisioned-			subscribed SMS
SubscriptionDataSubscriptions	data/sms-data /subscription-data/subs-to-notify	N	GET	subscription data. Retrieve existing
(Collection)	/จนมอบาทแบก-นลเล/รนมร-เบ-กบแห	IN	GET	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

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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
			057	of UEs
			GET	Retrieve AMF- subscriptions for a group
				of UEs
			PATCH	Update AMF- subscriptions for a group
0.00			D. 17	of UEs
SmfGroupSubscriptionInfo (Document)	/subscription-data/group- data/{ueGroupId}/ee-	N	PUT	Store information related to the received Smf-EE-
	subscriptions/{subsId}/smf-subscriptions			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	/subscription-data/group-	N	PUT	Store information related
(Document)	data/{ueGroupId}/ee-			to the Hss-EE-
	subscriptions/{subsId}/hss-subscriptions			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	/subscription-data/group-	Υ	GET	Retrieve the subscribed
(Document)	data/{ueGroupId}/ee-profile-data			EE profile data for a group of UEs.
TraceData	/subscription-	Υ	GET	Retrieve the UE's trace
(Document)	data/{ueld}/{servingPlmnId}/provisioned-data/trace-data			configuration data
IdentityData	/subscription-data/{ueld}/identity-data	Υ	GET	Retrieve identity data
(Document)				that corresponds to the provided ueld
SharedData (Collection)	/subscription-data/shared-data	N	GET	Retrieve shared data
IndividualSharedData	/subscription-data/shared-	Υ	GET	Retrieve the individual
(Document)	data/{sharedDataId}		1055	Shared Data
GroupIdentifiers	/subscription-data/group-data/group-	Υ	GET	Retrieve group identifiers
(Document)	identifiers			and the UE identifiers belong to the group identifiers.
5GvnGroups	/subscription-data/group-data/5g-vn-	Υ	GET	Retrieve 5G VN Groups
(Store)	groups			
Individual5GvnGroup	/subscription-data/group-data/5g-vn-	Υ	PUT	Create a 5G VN Group
(Document)	groups/{externalGroupId}		PATCH	Update a 5G VN Group
			DELETE	Delete a 5G VN Group
5GVnGroupsInternal	/subscription-data/group-data/5g-vn-	Υ	GET GET	Retrieve a 5G VN Group Retrieve 5G VN Group
(Document)	groups/internal			Data based on Internal
	3			Group Identifier(s)

Pp5gVnGroupProfileData	/subscription-data/group-data/5g-vn-	Υ	GET	Retrieve the UE's
(Document)	groups/pp-profile-data			subscribed PP profile data for accessing 5G VN Groups service
				operations.
LcsPrivacySubscriptionData (Document)	/subscription-data/{ueld}/lcs-privacy- data	Υ	GET	Retrieve the UE's subscribed LCS privacy Subscription Data
LcsMobileOriginatedSubscriptionData (Document)	/subscription-data/{ueld}/lcs-mo-data	Y	GET	Retrieve the UE's subscribed LCS Mobile Originated Subscription Data
NiddAuthorizationData (Document)	/subscription-data/{ueld}/nidd- authorization-data	Υ	GET	Retrieve the UE's NIDD Authorization Data
ServiceSpecificAuthorizationData (Document)	/subscription-data/{ueld}/service- specific-authorization- data/{serviceType}	Y	GET	Retrieve the UE's Authorization Data for a specific service
CoverageRestrictionData (Document)	/subscription-data/{ueld}/coverage- restriction-data	Y	GET	Retrieve the UE's subscribed enhanced Coverage Restriction Data
Location (Document)	/subscription-data/{ueld}/context-data/location	Υ	GET	Retrieve the UE's Location Information
V2xSubscriptionData (Document)	/subscription-data/{ueld}/v2x-data	Υ	GET	Retrieve the UE's subscribed V2X Data
ProseSubscriptionData (Document)	/subscription-data/{ueld}/prose-data	Y	GET	Retrieve the UE's subscribed ProSe Service Data
5MBSSubscriptionData (Document)	/subscription-data/{ueld}/5mbs-data	Υ	GET	Retrieve the UE's 5MBS Subscription Data
UcSubscriptionData (Document)	/subscription-data/{ueld}/uc-data	Υ	GET	Retrieve the UE's User Consent Data
LcsBroadcastAssistanceSubscriptionData (Document)	/subscription- data/{ueld}/{servingPlmnId}/provisioned- data/lcs-bca-data	Y	GET	Retrieve the UE's subscribed LCS Broadcast Assistance subscription data
NiddAuthorizations (Document)	/subscription-data/{ueld}/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/{ueld}	N	GET	Retrieve data set(s) from the UE's subscription data
SpecificServiceAuthorizations (Document)	/subscription-data/{ueld}/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/{ueld}/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/{ueld}/context-data/ pei-info	Υ	GET	Retrieve the PEI of the 5GC/EPC domains

			PUT	Update or create the PEI of the 5GC/EPC domains
5GMbsGroup (Store)	/subscription-data/group-data/mbs- group-membership	Y	GET	Retrieve 5G MBS Group
Individual5GmbsGroup	/subscription-data/group-data/mbs-	Υ	PUT	Create a 5G MBS Group
(Document)	group-membership/{externalGroupId}		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	Υ	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.

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
ueld	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	Р	Cardinality	Description
supported- features	SupportedFeatures	0	01	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	Р	Cardinality	Description
n/a			

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

Data type	Р	Cardinality	Response	Description	
			codes		
AuthenticationSubscription	M	1		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	Р	Cardinality	Description
supported- features	SupportedFeatures	0	01	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	Р	Cardinality	Description
array(PatchItem)	M	1N	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	Р	Cardinality	Response	Description			
			codes				
n/a			204 No	Upon successful modification there is no body in the response			
			Content	message. (NOTE 2)			
PatchResult	М	1	200 OK	Upon success, the execution report is returned. (NOTE 2)			
ProblemDetails	0	01	403	If one or more attributes are not allowed to be modified			
			Forbidden	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.

Resource: AccessAndMobilitySubscriptionData 5.2.3

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

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

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
ueld	Represents the Subscription Identifier SUPI or GPSI (see 3GPP TS 23.501 [4] clause 5.9.2) pattern: See pattern of type VarUeld 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

GET 5.2.3.3.1

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	Р	Cardinality	Description
fields	array(string)	С		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	0	01	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	Р	Cardinality	Description
n/a			

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

Data type	Р	Cardinality	Response codes	Description			
AccessAndMobilitySubscriptionData	M	1		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 s							

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
ueld	Represents the Subscription Identifier SUPI or GPSI (see 3GPP TS 23.501 [4] clause 5.9.2) pattern: See pattern of type VarUeld 3GPP TS 29.571 [3]
servingPlmnId	Represents the Serving PLMN ID (<mcc><mnc>) pattern: "^[0-9]{5,6}\$"</mnc></mcc>

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	Р	Cardinality	Description
fields	array(string)	С		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	0	01	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	Р	Cardinality	Description
n/a			

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

Data type	Р	Cardinality	Response codes	Description				
SmfSelectionSubscriptionData	М	1		Upon success, a response body containing the SMF Selection Subscription Data for the user shall be returned.				
NOTE: In addition common data	str	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

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

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
ueld	Represents the Subscription Identifier SUPI or GPSI (see 3GPP TS 23.501 [4] clause 5.9.2) pattern: See pattern of type VarUeld 3GPP TS 29.571 [3]
servingPlmnId	Represents the Serving PLMN ID (<mcc><mnc>) pattern: "^[0-9]{5,6}\$"</mnc></mcc>

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	Р	Cardinality	Description
single-nssai	Snssai	0		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	0	01	
fields	array(string)	С	1N	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	0	01	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	Р	Cardinality	Description
n/a			

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

Data type	Р	Cardinality	Response codes	Description
SmSubsData	М	1	200 OK	Upon success, a response body containing the Session
				Management Subscription data shall be returned.
NOTE: In addition c	ommo	on data structur	es 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
ueld	Represents the Subscription Identifier SUPI or GPSI (see 3GPP TS 23.501 [4] clause 5.9.2)
	pattern: See pattern of type VarUeld 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
Amf3GppAccess	М	1	The AMF registration for 3GPP access is replaced with the received
Registration			information.

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

Data type	Р	Cardinality	Response codes	Description
n/a			204 No	Upon success, an empty response body shall be returned
			Content	
Amf3GppAccessRegistration	М		201 Created	Upon success, a response body containing a representation of the created Individual
NOTE: In addition common da	ta s	<u>l</u> tructures as li	sted in table	Amf3GppAccessRegistration resource shall be returned. 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	Р	Cardinality	Description
supported- features	SupportedFeatures	0	01	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	Р	Cardinality	Description
array(PatchItem)	М	1N	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	Р	Cardinality	Response	Description
			codes	
n/a			204 No	Upon successful modification there is no body in the response
			Content	message. (NOTE 2)
PatchResult	М	1	200 OK	Upon success, the execution report is returned. (NOTE 2)
ProblemDetails	0	01	403	If one or more attributes are not allowed to be modified
			Forbidden	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	Р	Cardinality	Description
fields	array(string)	С		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	0	01	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	Р	Cardinality	Description
n/a			

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

Data type	Р	Cardinality	Response codes	Description
Amf3GppAccessRegistration	M	1		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
ueld	Represents the Subscription Identifier SUPI or GPSI (see 3GPP TS 23.501 [4] clause 5.9.2) pattern: See pattern of type VarUeld 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	Р	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	Р	Cardinality	Description
AmfNon3GppAcc	М	1	The AMF registration for non 3GPP access is replaced with the received
essRegistration			information.

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

Data type	Р	Cardinality	-	Description
			codes	
n/a			204 No	Upon success, an empty response body shall be
			Content	returned
AmfNon3GppAccessRegistration	М	1	201	Upon success, a response body containing a
			Created	representation of the created Individual
				AmfNon3GppAccessRegistration resource shall be
				returned.
NOTE: In addition common data st	ruc	tures 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	Р	Cardinality	Description
supported- features	SupportedFeatures	0	01	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	Р	Cardinality	Description
array(PatchItem)	М	1N	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	Р	Cardinality	Response codes	Description
n/a			204 No Content	Upon successful modification there is no body in the response message. (NOTE 2)
PatchResult	М	1	200 OK	Upon success, the execution report is returned. (NOTE 2)
ProblemDetails	0	01	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)	O		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	0	01	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	Р	Cardinality	Description
n/a			

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

Data type	Р	Cardinality	Response codes	Description				
AmfNon3GppAccessRegistration	M	1		Upon success, a response body containing the Amf3GppAccessRegistration shall be returned.				
NOTE: In addition common data st	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
ueld	Represents the Subscription Identifier SUPI or GPSI (see 3GPP TS 23.501 [4] clause 5.9.2) pattern: See pattern of type VarUeld 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-	SupportedFeatures	0	01	see 3GPP TS 29.500 [8] clause 6.6
features				

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	Р	Cardinality	Description
n/a			

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

Data type	Р	Cardinality	Response	Description	
			codes		
SmfRegList	М	1		Upon success, a response body containing the 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					
ueld	Represents the Subscription Identifier SUPI or GPSI (see 3GPP TS 23.501 [4] clause 5.9.2)					
	pattern: See pattern of type VarUeld 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	Р	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	Р	Cardinality	Description
SmfRegistration	М	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	Р	Cardinality	Response codes	Description		
SmfRegistration	М	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	Р	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	Р	Cardinality	Description
n/a			

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

Data type	Р	Cardinality	Response codes	Description		
n/a			204 No	Upon success, an empty response body shall be returned.		
			Content			
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	Р	Cardinality	Description
fields	array(string)	С		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	0	01	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	Р	Cardinality	Description
n/a			

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

Data type	Р	Cardinality	Response	Description		
			codes			
SmfRegistration	М	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	Р	Cardinality	Description
supported- features	SupportedFeatures	0	01	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	Р	Cardinality	Description
array(PatchItem)	М	1N	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	Р	Cardinality	Response	Description
			codes	
n/a			204 No	Upon successful modification there is no body in the response
			Content	message. (NOTE 2)
PatchResult	М	1	200 OK	Upon success, the execution report is returned. (NOTE 2)
ProblemDetails	0	01	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
ueld	Represents the Subscription Identifier SUPI or GPSI (see 3GPP TS 23.501 [4] clause 5.9.2) pattern: See pattern of type VarUeld 3GPP TS 29.571 [3]
NOTE: The content	of ueld 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	Р	Cardinality	Description
fields	array(string)	С		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	0	01	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	Р	Cardinality	Description
n/a			

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

Data type	Р	Cardinality	Response codes	Description
map(OperatorSpecificDataContainer)	M	0N		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 {ueld} 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 str	ucti	ures as listed	in table 5.5-1	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	Р	Cardinality	Description
supported- features	SupportedFeatures	0	01	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	Р	Cardinality	Description
arrav(PatchItem)	М	1N	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	Р	Cardinality	Response	Description
			codes	
n/a			204 No	Upon successful modification there is no body in the response
			Content	message. (NOTE 2)
PatchResult	М	1	200 OK	Upon success, the execution report is returned. (NOTE 2)
ProblemDetails	0	01	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	Р	Cardinality	Description
supported- features	SupportedFeatures	0	01	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	Р	Cardinality	Description
map(OperatorSpecific	M	1N	
DataContainer)			

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

Data type	Р	Cardinality	Response codes	Description		
map(OperatorSpecific DataContainer)	Ο	1N	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	0		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	Р	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	Р	Cardinality	Description
n/a			

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

Data ty	/ре	Р	Cardinality	Response codes	Description		
n/a				204 No Content	Upon success, an empty response body shall be returned.		
NOTE:	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
ueld	Represents the Subscription Identifier SUPI or GPSI (see 3GPP TS 23.501 [4] clause 5.9.2) pattern: See pattern of type VarUeld 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	Р	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	Р	Cardinality	Description
SmsfRegistration	М	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	М	1	201 Created	Upon success, a response body containing a representation of the created Individual SmsfRegistration for 3GPP access resource shall be returned.		
SmsfRegistration	М	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 of	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	Р	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	Р	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	Р	Cardinality	Response codes	Description		
n/a			204 No	Upon success, an empty response body shall be returned.		
		Content				
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	Р	Cardinality	Description
fields	array(string)	С		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	0	01	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	Р	Cardinality	Description
n/a			

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

Data type	Р	Cardinality	Response codes	Description		
SmsfRegistration	М	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
ueld	Represents the Subscription Identifier SUPI or GPSI (see 3GPP TS 23.501 [4] clause 5.9.2) pattern: See pattern of type VarUeld 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	Р	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	Р	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	Р	Cardinality	Response	Description
			codes	
n/a			204 No	Upon success, an empty response body shall be returned
			Content	
SmsfRegistration	М	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	М	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 of	comm	on data structui	res 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	Р	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	Р	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	Upon success, an empty response body shall be returned.			
			Content				
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	Р	Cardinality	Description
fields	array(string)	С		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	0	01	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	Р	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	М	1		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
ueld	Represents the Subscription Identifier SUPI or GPSI (see 3GPP TS 23.501 [4] clause 5.9.2) pattern: See pattern of type VarUeld 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	Р	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	Р	Cardinality	Description
IpSmGwRegistrati	М	1	The IP-SM-GW registration is created or updated with the received
on			information.

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

Data	type	Р	Cardinality	Response	Description		
				codes			
n/a				204 No	Upon success, an empty response body shall be returned		
				Content			
NOTE:							

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	Р	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	Р	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	Р	Cardinality	Response codes	Description			
n/a			204 No	Upon success, an empty response body shall be returned.			
			Content				
NOTE: In addition	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	Р	Cardinality	Description
supported- features	SupportedFeatures	0	01	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	Р	Cardinality	Description
array(PatchItem)	M	1N	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	Р	Cardinality	Response	Description
n/a			204 No Content	Upon successful modification there is no body in the response message. (NOTE 2)
PatchResult	М	1	200 OK	Upon success, the execution report is returned. (NOTE 2)
ProblemDetails	0	01	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	Р	Cardinality	Description
fields	array(string)	С		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	0	01	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	Р	Cardinality	Description
n/a			

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

Data type	Р	Cardinality	Response codes	Description	
IpSmGwRegistration	М	1		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
ueld	Represents the Subscription Identifier SUPI or GPSI (see 3GPP TS 23.501 [4] clause 5.9.2) pattern: See pattern of type VarUeld 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	Р	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	Р	Cardinality	Description
MessageWaiting	М	1	The Message Waiting Data list is created or updated with the received
Data			information.

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

Data type	Р	Cardinality	Response codes	Description
n/a			204 No Content	Upon success, an empty response body shall be returned
MessageWaitingData	M	1		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	Р	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	Р	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	Р	Cardinality	Response codes	Description	
n/a				204 No	Upon success, an empty response body shall be returned.	
				Content		
NOTE:	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	Р	Cardinality	Description
supported- features	SupportedFeatures	0	01	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	Р	Cardinality	Description
array(PatchItem)	М	1N	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	Р	Cardinality	Response	Description
			codes	
n/a			204 No	Upon successful modification there is no body in the response
			Content	message. (NOTE 2)
PatchResult	M	1	200 OK	Upon success, the execution report is returned. (NOTE 2)
ProblemDetails	0	01	403	One or more attributes are not allowed to be modified
			Forbidden	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)	O		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	0	01	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	Р	Cardinality	Description
n/a			

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

Data type	Р	Cardinality	Response	Description
			codes	
MessageWaitingData	М	1		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

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
ueld	Represents the Subscription Identifier SUPI or GPSI (see 3GPP TS 23.501 [4] clause 5.9.2) pattern: See pattern of type VarUeld 3GPP TS 29.571 [3]
servingPlmnId	Represents the Serving PLMN ID (<mcc><mnc>) pattern: "^[0-9]{5,6}\$"</mnc></mcc>

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	Р	Cardinality	Description
supported-	SupportedFeatures	0	01	see 3GPP TS 29.500 [8] clause 6.6
features				

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	Р	Cardinality	Description
n/a			

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

Data type	Р	Cardinality	Response codes	Description	
SmsManagementSubscriptionData	М	1		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

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

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
ueld	Represents the Subscription Identifier SUPI or GPSI (see 3GPP TS 23.501 [4] clause 5.9.2)
	pattern: See pattern of type VarUeld 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	Р	Cardinality	Description
supported- features	SupportedFeatures	0	01	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	Р	Cardinality	Description
n/a			

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

Data type	Р	Cardinality	Response codes	Description
PpData	М	1		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	Р	Cardinality	Description
supported- features	SupportedFeatures	0	01	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	Р	Cardinality	Description
array(PatchItem)	М	1N	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	М	1	200 OK	Upon success, the execution report is returned. (NOTE 2)
ProblemDetails	0	01	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
ueld	Represents the Subscription Identifier SUPI or GPSI (see 3GPP TS 23.501 [4] clause 5.9.2)
	pattern: See pattern of type VarUeld 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	Р	Cardinality	Description
supported- features	SupportedFeatures	0	01	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	Р	Cardinality	Description
n/a			

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

Data type	Р	Cardinality	Response codes	Description			
PpProfileData	М	1	200 OK	Upon success, a response body containing the Parameter Provision Profile that corresponds to the provided ueld			
NOTE: In addition							

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

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

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
ueld	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	Р	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	Р	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	Р	Cardinality	Response codes	Description		
PpDataEntry	М	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	0	01	403 Forbidden	The "cause" attribute may be used to indicate one of the following application errors: - CREATION_NOT_ALLOWED		
ProblemDetails	0	01	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	Р	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	Р	Cardinality	Description
n/a			

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

Data type	Р	Cardinality	Response codes	Description	
n/a			204 No	Upon success, an empty response body shall be returned	
			Content		
ProblemDetails	0	01	404 Not	The "cause" attribute may be used to indicate one of the	
			Found	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	Р	Cardinality	Description
supported- features	SupportedFeatures	0	01	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	Р	Cardinality	Description
N/A			

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

Data type	Р	Cardinality	Response	Description
			codes	
PpDataEntry	М	1		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

 $Resource\ URI:\ \{apiRoot\}/nudr-dr/\!< apiVersion > / subscription-data/\{ueId\}/pp-data-stored - (ueId)/pp-data-stored - (ueId)$

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

Definition
See 3GPP TS 29.504 [2] clause 6.1.1
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	Р	Cardinality	Description
supported-	SupportedFeatures	0	01	see 3GPP TS 29.500 [8] clause 6.6
features				

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	Р	Cardinality	Description
N/A			

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

Data type	Р	Cardinality	Response codes	Description
PpDataEntryList	М	1		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

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

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
Ue-id	Represents the Subscription Identifier SUPI or GPSI (see 3GPP TS 23.501 [4] clause 5.9.2) pattern: See pattern of type VarUeld 3GPP TS 29.571 [3]
serving-plmn-id	Represents the Serving PLMN ID (<mcc><mnc>) pattern: "^[0-9]{5,6}\$"</mnc></mcc>

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	Р	Cardinality	Description
supported- features	SupportedFeatures	0	01	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	Р	Cardinality	Description
n/a			

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

Data type	Р	Cardinality	Response codes	Description
SmsSubscriptionData	М	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
ueld	Represents the Subscription Identifier SUPI or GPSI (see 3GPP TS 23.501 [4] clause 5.9.2) pattern: See pattern of type VarUeld 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-	SupportedFeatures	0	01	see 3GPP TS 29.500 [8] clause 6.6
features				

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	Р	Cardinality	Description
n/a			

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

Data type	Р	Cardinality	Response codes	Description
array(SdmSubscription)	М	1N	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	Р	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	Р	Cardinality	Description
SdmSubscription	Μ	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	Р	Cardinality	Response codes	Description	
SdmSubscription	M	1	201 Created	Upon success, a response body containing a representation of the Ueld'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

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

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
ueld	Represents the Subscription Identifier SUPI or GPSI (see 3GPP TS 23.501 [4] clause 5.9.2) pattern: See pattern of type VarUeld 3GPP TS 29.571 [3]
subsld	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	Р	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	Р	Cardinality	Description
SdmSubscription	М	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	Р	Cardinality	Response codes	Description	
n/a			204 No Content	Upon success, an empty response body shall be returned.	
ProblemDetails	0	01	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	Р	Cardinality	Description
n/a			

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

Data type	Р	Cardinality	Response codes	Description			
n/a			204 No	Upon success, an empty response body shall be returned.			
			Content				
ProblemDetails	0	01	404 Not	The "cause" attribute may be used to indicate one of the			
			Found	following application errors:			
				- USER_NOT_FOUND			
				- DATA_NOT_FOUND			
NOTE: In addition of	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	Р	Cardinality	Description
supported- features	SupportedFeatures	0	01	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	Р	Cardinality	Description
array(PatchItem)	M	1N	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	Р	Cardinality	Response codes	Description
n/a			204 No Content	Upon successful modification, there is no body in the response message. (NOTE 2)
PatchResult	М	1	200 OK	Upon success, the execution report is returned. (NOTE 2)
ProblemDetails	0	01	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	Р	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	Р	Cardinality	Description
n/a			

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

Data type	Р	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
ueld	Represents the Subscription Identifier SUPI or GPSI (see 3GPP TS 23.501 [4] clause 5.9.2) pattern: See pattern of type VarUeld in 3GPP TS 29.571 [3]
subsld	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	Р	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	Р	Cardinality	Description
HssSubscriptionIn	М	1	HSS SDM subscription info
fo			

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

Data t	уре	Р	Cardinality	Response	Description
				codes	
n/a				204 No	Upon success, an empty response body shall be returned.
				Content	
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	Р	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	Р	Cardinality	Description
n/a			

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

Data	type	Р	Cardinality	Response codes	Description		
n/a				204 No Content	Upon success, an empty response body shall be returned.		
NOTE:	l comen						

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	Р	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

Da	a type	Р	Cardinality	Description
n/a	•			

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

Data type	Р	Cardinality	Response codes	Description	
HssSubscriptionInfo	М	1		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	Р	Cardinality	Description
supported- features	SupportedFeatures	0	01	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	Р	Cardinality	Description
array(PatchItem)	M	1N	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	Р	Cardinality	Response codes	Description
n/a			204 No Content	Upon successful modification there is no body in the response message. (NOTE 2)
PatchResult	М	1	200 OK	Upon success, the execution report is returned. (NOTE 2)
ProblemDetails	0	01	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
ueld	Represents the Subscription Identifier SUPI or GPSI (see 3GPP TS 23.501 [4] clause 5.9.2) pattern: See pattern of type VarUeld 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	Р	Cardinality	Description
supported- features	SupportedFeatures	0	01	see 3GPP TS 29.500 [8] clause 6.6
event-types	array(EventType)	0		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(Nfldentifier)	0		Indicates to return relevant EE subscription data along with associated Subscription resources created and stored while initiating subscriptions to NFs identified by NfType and NfInstanceld

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	Р	Cardinality	Description
n/a			

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

Data type	Р	Cardinality	Response	Description				
			codes					
array(EeSubscriptionExt)	M	1N		Upon success, a response body containing the individual EE subscriptions shall be returned.				
NOTE: In addition commor	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	Р	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 ty	ре	Р	Cardinality	Description
EeSubscrip [*]	tion	М	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	М	1	201 Created	Upon success, a response body containing a representation of the Ueld'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						
ueld	Represents the Subscription Identifier SUPI or GPSI (see 3GPP TS 23.501 [4] clause 5.9.2) pattern: See pattern of type VarUeld 3GPP TS 29.571 [3]						
subsld	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	Р	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	Р	Cardinality	Description
EeSubscription	М	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	Р	Cardinality	Response	Description		
			codes			
n/a			204 No	Upon success, an empty response body shall be returned.		
			Content			
ProblemDetails	0	01	404 Not	If the resource does not exist, a response code of 404 Not		
			Found	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	Р	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	Р	Cardinality	Description
n/a			

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

Data type	Р	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	Р	Cardinality	Description
supported- features	SupportedFeatures	0	01	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	Р	Cardinality	Description
array(PatchItem)	М	1N	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	Р	Cardinality	Response	Description
			codes	
n/a			204 No	Upon successful modification, there is no body in the response
			Content	message. (NOTE 2)
PatchResult	М	1	200 OK	Upon success, the execution report is returned. (NOTE 2)
ProblemDetails	0	01	403	If one or more attributes are not allowed to be modified
			Forbidden	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	Р	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	Р	Cardinality	Description
n/a			

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

Data type	Р	Cardinality	Response codes	Description
EeSubscription	М	1		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

 $Resource\ URI:\ \{apiRoot\}/nudr-dr/< apiVersion>/subscription-data/group-data/\{ueGroupId\}/ee-subscriptions/\{subscriptions/(subscri$

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
•	Represents the identifier of the Group of UEs. For this resource, either External Group Identifier or any UE shall be present. Pattern: '^(extgroupid-[^@]+@[^@]+ anyUE)\$'
subsld	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	Р	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	Р	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	Р	Cardinality	Response codes	Description			
n/a			204 No	Upon success, an empty response body shall be returned.			
ı ı/a				opon success, an empty response body shall be returned.			
			Content				
ProblemDetails	0	01	404 Not	If the resource does not exist, a response code of 404 Not			
			Found	Found shall be returned.			
NOTE: In addition,	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	Р	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	Р	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	Upon success, an empty response body shall be returned.				
			Content					
NOTE: In addition,	comm	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	Р	Cardinality	Description
supported- features	SupportedFeatures	0	01	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	Р	Cardinality	Description
array(PatchItem)	M	1N	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	Р	Cardinality	Response	Description
			codes	
n/a			204 No Content	Upon successful modification, there is no body in the response message. (NOTE 2)
PatchResult	М	1	200 OK	Upon success, the execution report is returned. (NOTE 2)
ProblemDetails	0	01	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	Р	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	Р	Cardinality	Description
n/a			

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

Data type	Р	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						

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 any UE.

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
· ·	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	Р	Cardinality	Description
supported- features	SupportedFeatures	0	01	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	Р	Cardinality	Description
n/a			

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

Data type	Р	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

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

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)\$'
subsld	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	Р	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	Р	Cardinality	Description
array(AmfSubscri	М	1N	AMF subscription info for one or two AMFs
ptionInfo)			

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

Response codes	Description
204 No Content	Upon successful update of this resource, an empty response body shall be returned.
	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.
I 1N	204 No Content I 1N 201 Created

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	Р	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	Р	Cardinality	Description
n/a			

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

Data type	Р	Cardinality	Response codes	Description			
n/a			204 No	Upon success, an empty response body shall be returned.			
			Content				
NOTE: In a	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	Р	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	Р	Cardinality	Description
n/a			

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

Data type	Р	Cardinality	Response	Description			
			codes				
array(AmfSubscriptionInfo)	M	1N	200 OK	Upon success, a response body containing AMF			
				Subscription Infos shall be returned.			
NOTE: In addition comm							

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	Р	Cardinality	Description
supported- features	SupportedFeatures	0	01	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	Р	Cardinality	Description
array(PatchItem)	M	1N	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	Р	Cardinality	Response codes	Description
n/a			204 No Content	Upon successful modification there is no body in the response message. (NOTE 2)
PatchResult	М	1	200 OK	Upon success, the execution report is returned. (NOTE 2)
ProblemDetails	0	01	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}/eesubscriptions/{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)\$'
subsld	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	Р	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	Р	Cardinality	Description
SmfSubscriptionI	М	1	SMF subscription info
nfo			

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

Data type	Р	Cardinality	Response codes	Description		
n/a			204 No Content	Upon successful update of this resource, an empty response body shall be returned.		
SmfSubscriptionInfo	М	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	Р	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	Р	Cardinality	Description
n/a			

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

Data typ	е	Р	Cardinality	Response codes	Description	
n/a				204 No	Upon success, an empty response body shall be returned.	
				Content		
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	Р	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	Р	Cardinality	Description
n/a			

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

Data type	Р	Cardinality	Response codes	Description
SmfSubscriptionInfo	М	1		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	Р	Cardinality	Description
supported- features	SupportedFeatures	0	01	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	Р	Cardinality	Description
array(PatchItem)	М	1N	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	Р	Cardinality	Response	Description
			codes	
n/a			204 No	Upon successful modification there is no body in the response
			Content	message. (NOTE 2)
PatchResult	М	1	200 OK	Upon success, the execution report is returned. (NOTE 2)
ProblemDetails	0	01	403	If one or more attributes are not allowed to be modified
			Forbidden	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

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

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-[^@]+@[^@])\$'
subsld	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	Р	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	Р	Cardinality	Description
HssSubscriptionIn	М	1	HSS subscription info
fo			

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

Data type	Р	Cardinality	Response codes	Description
n/a			204 No Content	Upon success, an empty response body shall be returned.
HssSubscriptionInfo	М	1		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	Р	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	Р	Cardinality	Description
n/a			

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

Da	ata type	Р	Cardinality	Response codes	Description	
n/a				204 No Content	Upon success, an empty response body shall be returned.	
NOTE	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	Р	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	Р	Cardinality	Description
n/a			

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

Data type	Р	Cardinality	Response codes	Description
HssSubscriptionInfo	М	1		Upon success, a response body containing HSS Subscription Infos shall be returned.
NOTE: In addition	, con	nmon data struc	ctures as liste	d 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	Р	Cardinality	Description
supported- features	SupportedFeatures	0	01	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	Р	Cardinality	Description
array(PatchItem)	М	1N	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	Р	Cardinality	Response codes	Description
n/a			204 No Content	Upon successful modification there is no body in the response message. (NOTE 2)
PatchResult	М	1	200 OK	Upon success, the execution report is returned. (NOTE 2)
ProblemDetails	0	01	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	Р	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	Р	Cardinality	Description
SubscriptionData	М	1	Identifies the subscriber data subscription to be stored in the UDR.
Subscriptions			

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	Р	Cardinality	Response codes	Description
SubscriptionDataSubscriptions	M	1		Upon success, a response body containing a representation of the Ueld'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	str	uctures as list	ed 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	Р	Cardinality	Description
ue-id	VarUeld	M		Represents the Subscription Identifier SUPI or GPSI (see 3GPP TS 23.501 [4] clause 5.9.2) pattern: See pattern of type VarUeld 3GPP TS 29.571 [3]
supported- features	SupportedFeatures	0	01	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	Р	Cardinality	Description
1	n/a			

Table 5.2.20.3.2-3: Data structures supported by the GET Response Body on this resource

Data type		P Cardinality Respons		Description			
			codes				
array(SubscriptionDataSubscriptions)	M	0N		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	Р	Cardinality	Description
ue-id	VarUeld	М	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 VarUeld 3GPP TS 29.571 [3]
nf-instance-id	NfInstanceId	С	01	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	С	01	If included, this IE indicates that the UDR shall delete all subscriptions associated to the ue-id. (See NOTE)
implicit- unsubscribe- indication	boolean	0	01	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 "r	nf-instance-id" or	"delete	e-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	Р	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	Р	Cardinality	Response codes	Description				
n/a			204 No	Upon success, an empty response body shall be returned.				
Content								
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
subsld	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	Р	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	Р	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	Р	Cardinality	Response codes	Description			
			codes				
n/a			204 No	Upon success, an empty response body shall be returned.			
			Content				
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	Р	Cardinality	Description
supported- features	SupportedFeatures	0	01	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	Р	Cardinality	Description
array(PatchItem)	М	1N	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	Р	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	С	01	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	С	01	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	0	01	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	0	01	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 of	data	structures as	s listed in tab	le 5.5-1 are supported.

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	Р	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	Р	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	Р	Cardinality	Response	Description
			codes	
SubscriptionDataSubscriptions	M	1		Upon success, a response body containing the individual subscriptions shall be returned.
NOTE: In addition common data	str	uctures as list	ed 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

 $Resource\ URI:\ \{apiRoot\}/nudr-dr/<apiVersion>/subscription-data/\{ueId\}/\{servingPlmnId\}/provisioned-data/trace-data/(ueId)/(ue$

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				
ueld	Represents the Subscription Identifier SUPI or GPSI (see 3GPP TS 23.501 [4] clause 5.9.2)				
	pattern: See pattern of type VarUeld 3GPP TS 29.571 [3]				
servingPlmnId	Represents the Serving PLMN ID (<mcc><mnc>)</mnc></mcc>				
	pattern: "^[0-9]{5,6}\$"				

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	Р	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	Р	Cardinality	Description
n/a			

Table 5.2.22.3.1-3: Data structures supported by the GET Response Body on this resource

Data type	Р	Cardinality	Response codes	Description	
TraceData	М	1	200 OK	Upon success, a response body containing the Trace	
				Configuration Data 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
ueld	Represents the Subscription Identifier SUPI or GPSI (see 3GPP TS 23.501 [4] clause 5.9.2) pattern: See pattern of type VarUeld 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	Р	Cardinality	Description
app-port-id	AppPortId	0		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	Р	Cardinality	Description
n/a			

Table 5.2.23.3.1-3: Data structures supported by the GET Response Body on this resource

Data type	Р	Cardinality	Response codes	Description
IdentityData	М	1	200 OK	Upon success, a response body containing the identity data that corresponds to the provided ueld
ProblemDetails	0	01	404 Not Found	If the ueld 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					
ueld	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	Р	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	Р	Cardinality	Description
AuthEvent	М	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	Р	Cardinality	Response codes	Description		
n/a			204 No	Upon success, an empty response body shall be returned		
			Content			
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	Р	Cardinality	Description
fields	array(string)	С		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	0	01	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	Р	Cardinality	Description
n/a			

Table 5.2.24.3.2-3: Data structures supported by the GET Response Body on this resource

Data type	Р	Cardinality	Response codes	Description
AuthEvent	М	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	Р	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	Р	Cardinality	Description
n/a			

Table 5.2.24.3.3-3: Data structures supported by the DELETE Response Body on this resource

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

5.2.24A Resource: Individual Authentication Status

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
ueld	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	Р	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	Р	Cardinality	Description
AuthEvent	М	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	Р	Cardinality	Response	Description				
			codes					
n/a			204 No	Upon success, an empty response body shall be returned				
			Content					
NOTE: In addition c	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	Р	Cardinality	Description
fields	array(string)	С		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	0	01	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	Р	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	Р	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	Р	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	Upon success, an empty response body shall be returned.
			Content	
NOTE: In addition of	comm	on data structur	es 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
ueld	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	Р	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	Р	Cardinality	Description
SorData	М	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	Р	Cardinality	Response codes	Description
n/a			204 No	Upon success, an empty response body shall be returned
			Content	
NOTE: In addition of	ommo	on data structure	es 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

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Name	Data type	Р	Cardinality	Description
supported- features	SupportedFeatures	0	01	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	Р	Cardinality	Description
n/a			

Table 5.2.25.3.2-3: Data structures supported by the GET Response Body on this resource

Data type	Р	Cardinality	Response	Description		
			codes			
SorData	М	1		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" 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	Р	Cardinality	Description
supported- features	SupportedFeatures	0	01	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	Р	Cardinality	Description
array(PatchItem)	М	1N	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	Р	Cardinality	Response	Description
n/a			204 No Content	Upon successful modification there is no body in the response message. (NOTE 2)
PatchResult	М	1	200 OK	Upon success, the execution report is returned. (NOTE 2)
ProblemDetails	0	01	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
ueld	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	Р	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	Р	Cardinality	Description
UpuData	М	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	Р	Cardinality	Response codes	Description		
n/a			204 No	Upon success, an empty response body shall be returned		
			Content			
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	Р	Cardinality	Description
supported-	SupportedFeatures	0	01	see 3GPP TS 29.500 [8] clause 6.6
features				

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	Р	Cardinality	Description
n/a			

Table 5.2.25A.3.2-3: Data structures supported by the GET Response Body on this resource

Data type	Р	Cardinality	Response	Description		
			codes			
UpuData	М	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
ueld	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	Р	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	Р	Cardinality	Description
NssaiAckData	М	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	Р	Cardinality	Response codes	Description
n/a			204 No	Upon success, an empty response body shall be returned
			Content	
NOTE: In addition c	ommo	on data structure	es 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	Р	Cardinality	Description
supported- features	SupportedFeatures	0	01	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	Р	Cardinality	Description
n,	/a			

Table 5.2.25B.3.2-3: Data structures supported by the GET Response Body on this resource

Data type	Р	Cardinality	Response codes	Description				
NssaiAckData	М	1	200 OK	Upon success, a response body containing the NssaiAckData				
				shall be returned.				
NOTE: In addition of	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
	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	Р	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	Р	Cardinality	Description
CagAckData	М	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	Р	Cardinality	Response codes	Description
n/a			204 No	Upon success, an empty response body shall be returned
			Content	
NOTE: In addition c	ommo	on data structure	es 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	Р	Cardinality	Description
supported-	SupportedFeatures	0	01	see 3GPP TS 29.500 [8] clause 6.6
features				

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	Р	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	М	1		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
ueld	Represents the Subscription Identifier SUPI or GPSI (see 3GPP TS 23.501 [4] clause 5.9.2) pattern: See pattern of type VarUeld in 3GPP TS 29.571 [3]
servingPlmnId	Represents the Serving PLMN ID (<mcc><mnc>) pattern: "^[0-9]{5,6}\$"</mnc></mcc>

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	Р	Cardinality	Description
dataset-names	array(DataSetName)	0		If included, this IE shall contain the names of data sets to the retrieved. If not included, all provisioned data sets shall be returned.

NOTE: To retrieve data sets that are not specific to serving PLMNs (e.g., LCS_PRIVACY, LCS_MO, V2X, 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	Р	Cardinality	Description
n/a			

Table 5.2.26.3.1-3: Data structures supported by the GET Response Body on this resource

Data type	Р	Cardinality	Response codes	Description	
ProvisionedDataSets	М	1		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.					

5.2.27 Resource: Operator Determined Barring Data

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
ueld	Represents the Subscription Identifier SUPI or GPSI (see 3GPP TS 23.501 [4] clause 5.9.2)
	pattern: See pattern of type VarUeld 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	Р	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	Р	Cardinality	Description
n/a			

Table 5.2.27.3.1-3: Data structures supported by the GET Response Body on this resource

Data type	Р	Cardinality	Response codes	Description		
			codes			
OdbData	M	1	200 OK	Upon success, a response body containing the Operator		
				Determined Barring Data shall be returned.		
NOTE: In addition, of	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
ueld	Represents the Subscription Identifier SUPI or GPSI (see 3GPP TS 23.501 [4] clause 5.9.2) pattern: See pattern of type VarUeld 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)	O		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	0	01	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	Р	Cardinality	Description
n/a			

Table 5.2.28.3.1-3: Data structures supported by the GET Response Body on this resource

Data type	Р	Cardinality	Response	Description			
			codes				
EeProfileData	М	1	200 OK	Upon success, a response body containing the Event			
				Exposure Profile that corresponds to the provided ueld			
NOTE: In addition							

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
•	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	Р	Cardinality	Description
supported-	SupportedFeatures	0	01	see 3GPP TS 29.500 [8] clause 6.6
features				

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	Р	Cardinality	Description
n/a			

Table 5.2.29.3.1-3: Data structures supported by the GET Response Body on this resource

Data type	Р	Cardinality	Response codes	Description	
			codes		
array(EeSubscription)	M	1N	200 OK	Upon success, a response body containing the individual EE	
				subscriptions for the groups of UEs shall be returned.	
NOTE: In addition, com	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	Р	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	Р	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	Р	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	Р	Cardinality	Description
shared-data-ids	array(SharedDataId)	M	1N	
supported- features	SupportedFeatures	0	01	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	Р	Cardinality	Description
n/a			

Table 5.2.30.3.1-3: Data structures supported by the GET Response Body on this resource

Data type	Р	Cardinality	Response codes	Description		
array(SharedData)	М	0N		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					
sharedDatald	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	Р	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	Р	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	М	1	200 OK	Upon success, a response body containing SharedData shall be returned.		
ProblemDetails	0	01	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						
ueld	Represents the Subscription Identifier SUPI or GPSI (see 3GPP TS 23.501 [4] clause 5.9.2)						
	pattern: See pattern of type VarUeld in 3GPP TS 29.571 [3]						
subsld	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	Р	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	Р	Cardinality	Description
array(AmfSubscri	М	1N	AMF subscription info for one or two AMFs
ptionInfo)			

Table 5.2.31.3.1-3: Data structures supported by the PUT Response Body on this resource

Data type	Р	Cardinality	Response codes	Description		
n/a			204 No	Upon successful update of this resource, an empty		
			Content	response body shall be returned.		
array(AmfSubscriptionInfo)	M	1N	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	Р	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	Р	Cardinality	Description
n/a			

Table 5.2.31.3.2-3: Data structures supported by the DELETE Response Body on this resource

Data type	Р	Cardinality	Response codes	Description			
n/a			204 No	Upon success, an empty response body shall be returned.			
			Content				
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	Р	Cardinality	Description
n/a			

Table 5.2.31.3.3-3: Data structures supported by the GET Response Body on this resource

Data type	Р	Cardinality	Response	Description		
			codes			
array(AmfSubscriptionInfo)	М	1N		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	0	01	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	Р	Cardinality	Description
array(PatchItem)	M	1N	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	Р	Cardinality	Response codes	Description
n/a			204 No Content	Upon successful modification there is no body in the response message. (NOTE 2)
PatchResult	М	1	200 OK	Upon success, the execution report is returned. (NOTE 2)
ProblemDetails	0	01	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
ueld	Represents the Subscription Identifier SUPI or GPSI (see 3GPP TS 23.501 [4] clause 5.9.2) pattern: See pattern of type VarUeld in 3GPP TS 29.571 [3]
subsld	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	Р	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	Р	Cardinality	Description
SmfSubscriptionI	М	1	SMF subscription info
nfo			

Table 5.2.31A.3.1-3: Data structures supported by the PUT Response Body on this resource

Data type	Р	Cardinality	Response codes	Description	
n/a			204 No	Upon successful update of this resource, an empty response	
			Content	body shall be returned.	
SmfSubscriptionInfo	М	1	201	Upon successful creation of this resource, a representation of	
			Created	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	Р	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	Р	Cardinality	Description
n/a			

Table 5.2.31A.3.2-3: Data structures supported by the DELETE Response Body on this resource

Data	type	Р	Cardinality	Response codes	Description		
n/a				204 No	Upon success, an empty response body shall be returned.		
				Content			
NOTE:	0.000						

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	Р	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	Р	Cardinality	Description
n/a			

Table 5.2.31A.3.3-3: Data structures supported by the GET Response Body on this resource

Data type	Р	Cardinality	Response codes	Description	
SmfSubscriptionInfo	М	1		Upon success, a response body containing SMF Subscription Infos shall be returned.	
NOTE: In addition					

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	Р	Cardinality	Description
supported- features	SupportedFeatures	0	01	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	Р	Cardinality	Description
array(PatchItem)	M	1N	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	Р	Cardinality	Response	Description
n/a			204 No Content	Upon successful modification there is no body in the response message. (NOTE 2)
PatchResult	М	1	200 OK	Upon success, the execution report is returned. (NOTE 2)
ProblemDetails	0	01	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
ueld	Represents the Subscription Identifier SUPI or GPSI (see 3GPP TS 23.501 [4] clause 5.9.2) pattern: See pattern of type VarUeld in 3GPP TS 29.571 [3]
subsld	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	Р	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	Р	Cardinality	Description
HssSubscriptionIn	М	1	HSS subscription info
fo			

Table 5.2.31B.3.1-3: Data structures supported by the PUT Response Body on this resource

Data type	Р	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	Р	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	Р	Cardinality	Description
n/a			

Table 5.2.31B.3.2-3: Data structures supported by the DELETE Response Body on this resource

Data typ	е	Р	Cardinality	Response codes	Description	
n/a				204 No	Upon success, an empty response body shall be returned.	
				Content		
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	Р	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	Р	Cardinality	Description
n/a			

Table 5.2.31B.3.3-3: Data structures supported by the GET Response Body on this resource

Data type	Р	Cardinality	Response codes	Description	
HssSubscriptionInfo	М	1		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	Р	Cardinality	Description
supported- features	SupportedFeatures	0	01	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	Р	Cardinality	Description
array(PatchItem)	М	1N	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	Р	Cardinality	Response	Description
			codes	
n/a			204 No	Upon successful modification there is no body in the response
			Content	message. (NOTE 2)
PatchResult	М	1	200 OK	Upon success, the execution report is returned. (NOTE 2)
ProblemDetails	0	01	403	If one or more attributes are not allowed to be modified
			Forbidden	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					
ueld	Represents the Subscription Identifier SUPI or GPSI (see 3GPP TS 23.501 [4] clause 5.9.2) pattern: See pattern of type VarUeld 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	Р	Cardinality	Description
context- dataset- names	array(ContextDataSetName)	М		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	Р	Cardinality	Description
n/a			

Table 5.2.32.3.1-3: Data structures supported by the GET Response Body on this resource

Data type	Р	Cardinality	Response	Description	
			codes		
ContextDataSets	М	1		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.					

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	Р	Cardinality	Description	
supported- features	SupportedFeatures	0	01	see 3GPP TS 29.500 [8] clause 6.6	
ext-groud-id	ExtGroupId	С	01	External Group ID	
int-group-id	GroupId	С	01	Internal Group ID	
ue-id-ind	boolean	С	01	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	Р	Cardinality	Description
n/a			

Table 5.2.33.3.1-3: Data structures supported by the GET Response Body on this resource

Data type	Р	Cardinality	Response codes	Description
GroupIdentifiers	М	1	200 OK	Upon success, a response body containing the group identifier(s) shall be returned.
ProblemDetails	0	01	404 Not Found	If the ueld 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)	0	0N	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	Р	Cardinality	Description
n/a			

Table 5.2.34.3.1-3: Data structures supported by the GET Response Body on this resource

Data type	Р	Cardinality	Response	Description
			codes	
map(5GVnGroupConfiguration)	M	0N		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 of	lata	structures as	listed in tabl	e 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	Р	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	Р	Cardinality	Description
5GVnGroupConfi	М	1	See 3GPP TS 29.503 [6]
guration			

Table 5.2.35.3.1-3: Data structures supported by the PUT Response Body on this resource

Data type	Р	Cardinality	Response	Description
			codes	
5GVnGroupConfiguration	M	1		Upon success, a representation of the created resource containing an internal group identifier as allocated by the
				UDR shall be returned.
ProblemDetails	0	01	403	If the resource already exists, a response code of 403
			Forbidden	Forbidden shall be returned.
NOTE: In addition common	da	ta structures a	as listed in ta	ble 5.5-1 are supported.

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	Р	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	Р	Cardinality	Description
n/a			

Table 5.2.35.3.2-3: Data structures supported by the DELETE Response Body on this resource

Data type	Р	Cardinality	Response	Description		
			codes			
n/a			204 No	Upon success, an empty response body shall be returned.		
			Content			
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	Р	Cardinality	Description
supported- features	SupportedFeatures	0	01	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	Р	Cardinality	Description
array(PatchItem)	М	1N	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	Р	Cardinality	Response codes	Description
n/a			204 No Content	Upon successful modification, there is no body in the response message. (NOTE 2)
PatchResult	М	1	200 OK	Upon success, the execution report is returned. (NOTE 2)
ProblemDetails O 01	01	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	
	0	01	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	Р	Cardinality	Description
supported- features	SupportedFeatures	0	01	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	Р	Cardinality	Description
n/a			

Table 5.2.35.3.4-3: Data structures supported by the GET Response Body on this resource

Data type	Р	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
ueld	Represents the Subscription Identifier SUPI or GPSI (see 3GPP TS 23.501 [4] clause 5.9.2) pattern: See pattern of type VarUeld 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)	O		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	0	01	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	Р	Cardinality	Description
n/a			

Table 5.2.36.3.1-3: Data structures supported by the GET Response Body on this resource

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Data type	Р	Cardinality	Response	Description	
			codes		
LcsPrivacyData	М	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
ueld	Represents the Subscription Identifier SUPI or GPSI (see 3GPP TS 23.501 [4] clause 5.9.2) See pattern of type VarUeld 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	Р	Cardinality	Description
fields	array(string)	С		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	0	01	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	Р	Cardinality	Description
n/a			

Table 5.2.37.3.1-3: Data structures supported by the GET Response Body on this resource

Data type	Р	Cardinality	Response	Description	
			codes		
LcsMoData	М	1		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
ueld	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	Р	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	0	01	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	Р	Cardinality	Description
n/a			

Table 5.2.38.3.1-3: Data structures supported by the GET Response Body on this resource

Data type	Р	Cardinality	Response	Description
			codes	
AuthorizationData	М	1	200 OK	Upon success, a response body containing the NIDD
				Authorization Data shall be returned.
ProblemDetails	0	1	404 Not	The "cause" attribute may be used to indicate one of the
			Found	following application errors:
				- USER_NOT_FOUND
ProblemDetails	0	01	403	The "cause" attribute may be used to indicate one of the
			Forbidden	following application errors:
				- DNN_NOT_ALLOWED
				- MTC_PROVIDER_NOT_ALLOWED
				- AF_INSTANCE_NOT_ALLOWED
				- SNNSAI_NOT_ALLOWED
NOTE: In addition,	comm	non data structu	res as listed in	n 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
ueld	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	Р	Cardinality	Description
12.11.1	SupportedFeatures	0	01	see 3GPP TS 29.500 [8] clause 6.6
features				

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	Р	Cardinality	Description
n/a			

Table 5.2.39.3.1-3: Data structures supported by the GET Response Body on this resource

Data type	Р	Cardinality	Response	Description
			codes	
EnhancedCoverageRestrictionData	M	1		Upon success, a response body containing UE's subscribed enhanced Coverage Restriction Data.
NOTE: In addition, common data	stru	ctures as liste	ed 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

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

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
ueld	Represents the Subscription Identifier SUPI or GPSI (see 3GPP TS 23.501 [4] clause 5.9.2)
	pattern: See pattern of type VarUeld 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	Р	Cardinality	Description
supported-	SupportedFeatures	0	01	see 3GPP TS 29.500 [8] clause 6.6
features				

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	Р	Cardinality	Description
n/a			

Table 5.2.40.3.1-3: Data structures supported by the GET Response Body on this resource

Data type	Р	Cardinality	Response	Description		
			codes			
LocationInfo	M	1	200 OK	Upon success, a response body containing the LocationInfo		
				shall be returned.		
NOTE: In addition of	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
	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 VarUeld 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	Р	Cardinality	Description	
supported-	SupportedFeatures	0	01	see 3GPP TS 29.500 [8] clause 6.6	
features					

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	Р	Cardinality	Description
n/a			

Table 5.2.41.3.1-3: Data structures supported by the GET Response Body on this resource

Data type	Р	Cardinality	Response	Description	
			codes		
V2xSubscriptionData	M	1		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
	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 VarUeld 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	Р	Cardinality	Description
12 11 11 11 11 11	SupportedFeatures	0	01	see 3GPP TS 29.500 [8] clause 6.6
features				

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	Р	Cardinality	Description
n/a			

Table 5.2.41A.3.1-3: Data structures supported by the GET Response Body on this resource

Data type		Cardinality	Response	Description		
			codes			
ProseSubscriptionData	M	1		Upon success, a response body containing UE's subscribed ProSe Service Data.		
NOTE: In addition, co	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

 $Resource\ URI:\ \{apiRoot\}/nudr-dr/<apiVersion>/subscription-data/\{ueId\}/\{servingPlmnId\}/provisioned-data/lcs-bcadata$

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
	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 (<mcc><mnc>) pattern: "^[0-9]{5,6}\$"</mnc></mcc>

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	Р	Cardinality	Description
supported-	SupportedFeatures	0	01	see 3GPP TS 29.500 [8] clause 6.6
features				

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	Р	Cardinality	Description
n/a			

Table 5.2.42.3.1-3: Data structures supported by the GET Response Body on this resource

Data type	Р	Cardinality		Description
			codes	
LcsBroadcastAssistanceT ypesData	М	1		Upon success, a response body containing the LCS Broadcast Assistance Data Subscription Data shall be returned.
NOTE: In addition common of	data structur	es as listed in	table 5.5-1 a	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 ony 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	Р	Cardinality	Description
internal-group-	array(GroupId)	М	1N	Return those 5G VN groups whose Internal Group ID
ids				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	Р	Cardinality	Description
n/a			

Table 5.2.43.3.1-3: Data structures supported by the GET Response Body on this resource

Data type	Р	Cardinality		Description
			codes	
map(5GVnGroupConfiguration)	M	0N		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	Р	Cardinality	Description
ext-group-ids	array(ExtGroupId)	0		If included, this IE Contain a list of external VN group identifiers for which the profiles are retrieved.
supported- features	SupportedFeatures	0	01	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	Р	Cardinality	Description
n/a			

Table 5.2.44.3.1-3: Data structures supported by the GET Response Body on this resource

Data type	Р	Cardinality	Response	Description		
			codes			
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						
ueld	Represents the Subscription Identifier SUPI or GPSI (see 3GPP TS 23.501 [4] clause 5.9.2) pattern: See pattern of type VarUeld 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	Р	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	Р	Cardinality	Description
NiddAuthorization	М	1	NIDD Authorization Data
Info			

Table 5.2.45.3.1-3: Data structures supported by the PUT Response Body on this resource

Data type	Р	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	Р	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	Р	Cardinality	Description
n/a			

Table 5.2.45.3.2-3: Data structures supported by the DELETE Response Body on this resource

Data t	type	Р	Cardinality	Response	Description		
				codes			
n/a				204 No	Upon success, an empty response body shall be returned.		
				Content			
NOTE:	E: 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	Р	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	Р	Cardinality	Description
n/a			

Table 5.2.45.3.3-3: Data structures supported by the GET Response Body on this resource

Data type	Р	Cardinality	Response	Description			
			codes				
NiddAuthorizationInfo	M	1	200 OK	Upon success, a response body containing NIDD			
				Authorization Info shall be returned.			
NOTE: In addition, of							

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	Р	Cardinality	Description
supported- features	SupportedFeatures	0	01	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	Р	Cardinality	Description
array(PatchItem)	M	1N	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	Р	Cardinality	Response	Description
n/a			204 No Content	Upon successful modification there is no body in the response message. (NOTE 2)
PatchResult	М	1	200 OK	Upon success, the execution report is returned. (NOTE 2)
ProblemDetails	0	01	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/{ueld}/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
ueld	Represents the Subscription Identifier SUPI (see 3GPP TS 23.501 [4] clause 5.9.2) pattern: See pattern of type VarUeld 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	Р	Cardinality	Description
supported- features	SupportedFeatures	0	01	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	Р	Cardinality	Description
n/a			

Table 5.2.46.3.1-3: Data structures supported by the POST Response Body on this resource

Data type	Р	Cardinality	Response	Description	
			codes		
MbsSubscriptionData	М	1		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
ueld	Represents the Subscription Identifier SUPI or GPSI (see 3GPP TS 23.501 [4] clause 5.9.2)
	pattern: See pattern of type VarUeld 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 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	Р	Cardinality	Description
dataset-names	array(DataSetName)	М	1N	This IE shall contain the names of data sets to the
				retrieved.
serving-plmn	PlmnId	С	01	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

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	Р	Cardinality	Description
n/a			

Table 5.2.47.3.1-3: Data structures supported by the GET Response Body on this resource

Data type	Р	Cardinality	Response	Description		
			codes			
UeSubscribedDataSets	М	1		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.						

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
ueld	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	Р	Cardinality	Description
single-nssai	Snssai	0	01	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	0	01	
mtc-provider- information	MtcProviderInformation	0	01	
af-id	string	0	01	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	Р	Cardinality	Description
n/a			

Table 5.2.48.3.1-3: Data structures supported by the GET Response Body on this resource

Data type	Р	Cardinality	Response codes	Description
AuthorizationData	М	1	200 OK	Upon success, a response body containing the Authorization Data shall be returned.
ProblemDetails	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
ProblemDetails	0	01	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.	comn	non data structu	res as listed in	n 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						
ueld	Represents the Subscription Identifier SUPI or GPSI (see 3GPP TS 23.501 [4] clause 5.9.2) pattern: See pattern of type VarUeld 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	Р	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	Р	Cardinality	Description
ServiceSpecificAu	М	1	Specific Service Authorization Data
thorizationInfo			

Table 5.2.49.3.1-3: Data structures supported by the PUT Response Body on this resource

Data type	Р	Cardinality	-	Description		
			codes			
n/a			204 No	Upon successful update of this resource, an empty		
			Content	response body shall be returned.		
ServiceSpecificAuthorizationInfo		1	201	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	Р	Cardinality	Description
n/a			

Table 5.2.49.3.2-3: Data structures supported by the DELETE Response Body on this resource

	Data type	Р	Cardinality	Response codes	Description		
n/a				204 No	Upon success, an empty response body shall be returned.		
				Content			
NOT	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	Р	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	Р	Cardinality	Description
n/a			

Table 5.2.49.3.3-3: Data structures supported by the GET Response Body on this resource

Data type	Р	Cardinality	Response codes	Description				
ServiceSpecificAuthorizationInfo	M	1		Upon success, a response body containing the authorization info for the specific service shall be returned.				
NOTE: In addition, common da	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	Р	Cardinality	Description
supported- features	SupportedFeatures	0	01	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	Р	Cardinality	Description
array(PatchItem)	M	1N	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	Р	Cardinality	Response codes	Description
n/a			204 No Content	Upon successful modification there is no body in the response message. (NOTE 2)
PatchResult	М	1	200 OK	Upon success, the execution report is returned. (NOTE 2)
ProblemDetails	0	01	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
ueld	Represents the Subscription Identifier SUPI or GPSI (see 3GPP TS 23.501 [4] clause 5.9.2)
	pattern: See pattern of type VarUeld 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	Р	Cardinality	Description
RoamingInfoUpda	М	1	Contains the last 5GC/EPC common Roaming Information in the 3GPP
te			access.

Table 5.2.50.3.1-3: Data structures supported by the PUT Response Body on this resource

Data type	Р	Cardinality	Response codes	Description			
n/a			204 No Content	Upon success, an empty response body shall be returned			
RoamingInfoUpdate	М	1	201 Created	Upon success, a response body containing a representation of the created Roaming Information resource shall be returned.			
NOTE: In addition cor	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	Р	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	Р	Cardinality	Description
n/a			

Table 5.2.50.3.2-3: Data structures supported by the GET Response Body on this resource

Data type	Р	Cardinality	Response codes	Description		
RoamingInfoUpdate	М	1		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						
ueld	Represents the Subscription Permanent Identifier (see 3GPP TS 23.501 [4] clause 5.9.2). pattern: See pattern of type VarUeld 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	Р	Cardinality	Description
supported- features	SupportedFeatures	0	01	see 3GPP TS 29.500 [8] clause 6.6
uc-purpose	UcPurpose	0	01	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	Р	Cardinality	Description
n/a			

Table 5.2.51.3.1-3: Data structures supported by the GET Response Body on this resource

Data type	Р	Cardinality	Response	Description
			codes	
UcSubscriptionData	M	1		Upon success, a response body containing UE's subscribed User Consent Data.
NOTE: In addition, co	mm	on data struct	ures 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
ueld	Represents the Subscription Identifier SUPI or GPSI (see 3GPP TS 23.501 [4] clause 5.9.2)
	pattern: See pattern of type VarUeld 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	Р	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	Р	Cardinality	Description
PeiUpdateInfo	М	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	Р	Cardinality	Response codes	Description			
n/a			204 No	Upon success, an empty response body shall be returned			
			Content				
PeiUpdateInfo	М	1	201	Upon success, a response body containing a representation of			
			Created	the resource of the created PEI Update Information shall be			
				returned.			
NOTE: In addition,	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	Р	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	Р	Cardinality	Description
n/a			

Table 5.2.52.3.2-3: Data structures supported by the GET Response Body on this resource

Data type	Р	Cardinality	Response codes	Description				
PeiUpdateInfo	М	1		Upon success, a response body containing the PEI Update Information shall be returned.				
NOTE: In addition, of	NOTE: In addition, common data structures as listed in table 5.5-1 are supported.							

5.2.53 void5.2.54 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	Р	Cardinality	Description
gpsis	array(Gpsi)	0		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	Р	Cardinality	Description
n/a			

Table 5.2.54.3.1-3: Data structures supported by the GET Response Body on this resource

Data type	Р	Cardinality	Response codes	Description
map(MulticastMbsGroupMemb)	M	0N		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 of	lata	structures as	listed in tabl	e 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	Р	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	Р	Cardinality	Description
MulticastMbsGrou	М	1	See 3GPP TS 29.503 [6]
pMemb			

Table 5.2.55.3.1-3: Data structures supported by the PUT Response Body on this resource

Data type	Р	Cardinality	Response codes	Description
MulticastMbsGroupMemb	М			Upon success, a representation of the created resource shall be returned.
ProblemDetails	0	01	403	If the resource already exists, a response code of 403
			Forbidden	Forbidden shall be returned.
NOTE: In addition common	da	ta structures a	as listed in ta	ble 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	Р	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 5.2.19.3.2-3.

Table 5.2.55.3.2-2: Data structures supported by the DELETE Request Body on this resource

Data type	Р	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	Р	Cardinality	Description
supported- features	SupportedFeatures	0	01	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	Р	Cardinality	Description
array(PatchItem)	М	1N	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	Р	Cardinality	Response codes	Description
n/a			204 No Content	Upon successful modification, there is no body in the response message. (NOTE 2)
PatchResult	М	1	200 OK	Upon success, the execution report is returned. (NOTE 2)
ProblemDetails	0	01	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
	0	01	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	Р	Cardinality	Description
supported- features	SupportedFeatures	0	01	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	Р	Cardinality	Description
n/a			

Table 5.2.55.3.4-3: Data structures supported by the GET Response Body on this resource

Data type	Р	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 ony 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	Р	Cardinality	Description
internal-group-	array(GroupId)	М	1N	Return those 5G MBS groups whose Internal Group ID
ids				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	Р	Cardinality	Description
n/a			

Table 5.2.56.3.1-3: Data structures supported by the GET Response Body on this resource

Data type	Р	Cardinality	Response codes	Description
map(MulticastMbsGroupMemb)	M	0N		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

 $Resource\ URI:\ \{apiRoot\}/nudr-dr/< apiVersion>/subscription-data/group-data/mbs-group-membership/pp-profile-data/group-data/mbs-group-membership/pp-profile-data/group-data/mbs-group-membership/pp-profile-data/group-data/mbs-group-membership/pp-profile-data/group-data/mbs-group-membership/pp-profile-data/group-data/mbs-group-membership/pp-profile-data/group-data/mbs-group-membership/pp-profile-data/group-data/mbs-group-membership/pp-profile-data/group-data/mbs-group-membership/pp-profile-data/group-data/mbs-group-membership/pp-profile-data/group-data/mbs-group-membership/pp-profile-data/group-data/mbs-group-membership/pp-profile-data/group-data/mbs-group-membership/pp-profile-data/group-data/mbs-group-membership/pp-profile-data/group-data/mbs-g$

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	Р	Cardinality	Description
ext-group-ids	array(ExtGroupId)	0		If included, this IE Contain a list of external MBS group identifiers for which the profiles are retrieved.
supported- features	SupportedFeatures	0	01	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	Р	Cardinality	Description
n/a			

Table 5.2.57.3.1-3: Data structures supported by the GET Response Body on this resource

Data type	Р	Cardinality	Response	Description	
			codes		
Pp5gMbsGroupProfileData	М	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.					

5.3 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.

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	Р	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	Р	Cardinality	Description
DataChangeNotify	M	1	

Table 5.3.2-3: Data structures supported by the POST Response Body

Data type	Р	Cardinality	Response codes	Description
n/a				Upon success, an empty response body shall be returned.
			Content	

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	SmfRegList	The complete replacement
(Store)		array representation of the
		SmfRegList shall be included
		in the DataChangeNotify.
ProvisionedParameterDataEntries	PpDataEntryList	The complete replacement
(Store)		array representation of the
		PpDataEntryList shall be
		included in the
		DataChangeNotify.
SubscriptionDataSubscriptions	array(SubscriptionDataSubscriptions)	The complete replacement
(Collection)		array representation of the
		SubscriptionDataSubscriptions
		shall be included in the
		DataChangeNotify.
5GVnGroups	map(5GVnGroupConfiguration)	The complete map
(Store)		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	Р	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	Р	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 t	type	Р	Cardinality	Response	Description		
				codes			
n/a				204 No	Upon success, an empty response body shall be returned.		
				Content			
NOTE:	NOTE: In addition common data structures as listed in table 5.5-1 are supported.						

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
Data Griding Grideniy	0.1.2.0	was requested when changed.
IdentityData	5.4.2.7	Identity data corresponds to the provided ueld
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
, ame assemption in the	0	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
Simos Baild	0.1.2.20	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
Nfldentifier	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
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.
VarPlmnId	5.4.3.2	String identifying a PLMN ID or an SNPN ID.
AuthMethod	5.4.3.3	Contains the Authentication Method
DataSetName	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

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
Similitegistration	3611 13 29.303 [0]	relevant to an SMF serving the UE
SmsfRegistration	3GPP TS 29.503 [6]	The complete set of information
- Chien togicalation	00.1.1020.000[0]	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
11.:	00DD T0 00 574 [0]	event exposure
Uri Trans Data	3GPP TS 29.571 [3]	URI
TraceData	3GPP TS 29.571 [3]	Trace Data
Dnn Specie	3GPP TS 29.571 [3]	Data Network Name Single NSSAI
Snssai VarUeld	3GPP TS 29.571 [3] 3GPP TS 29.571 [3]	String represents the SUPI or GPSI.
Varueiu	3GFF 13 29.571 [3]	String represents the SOPT of GPSI.
NfInstanceId	3GPP TS 29.571 [3]	NF Instance Identifier
NotifyItem	3GPP TS 29.571 [3]	Common data type used for data
Troughom	0011 10 20.071 [0]	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-I _{AUSF} 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
MCD : LLC :	0000 T0 00 574 [0]	Data
MtcProviderInformation	3GPP TS 29.571 [3]	An ID uniquely identifying MTC
EnhancedCoveragePostriationData	3CDD TO 20 502 [6]	provider information
EnhancedCoverageRestrictionData	3GPP TS 29.503 [6]	Enhanced Coverage Restriction
LocationInfo	3CDD TC 20 E02 [6]	Data Location Information
LocationInfo V2xSubscriptionData	3GPP TS 29.503 [6] 3GPP TS 29.503 [6]	
V2xSubscriptionData E164Number	3GPP TS 29.503 [6]	V2X Subscription Data E164Number
NetworkNodeDiameterAddress	3GPP TS 29.503 [6]	Diameter Address of an Network
NotworkindaeDiailleterAddress	0011 10 29.000 [0]	Node
		111000

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
Plmnld	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

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	М	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.
				shall be used when the OE's device is so 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	С	01	The encrypted value (hexstring) of the permanent
, , , , , ,	3			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	С	01	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
sequenceNumber	SequenceNumbe	С	01	generation is to be done in the HSS. String containing the SQN as defined in
Sequencervamber	r	~	01	3GPP TS 33.102 [10].
				It shall be present if the authentication method is
				"5G_AKA" or "EAP_AKA_PRIME" unless vector
authenticationManagem	string	С	01	generation is to be done in the HSS. Hexstring containing the Authentication management
entField	ounig		01	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}\$'
algorithmld	string	С	01	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
encOpcKey	string	0	01	generation is to be done in the HSS. Hexstring of the encrypted OPC Key.
one operacy	o.i.i.g			Presence indicates that the provided value
				(decrypted) shall be used instead of the value
encTopcKey	otring	0	01	derived from OP and K. Hexstring of the encrypted TOPC Key.
encropekey	string	١٠	01	Presence indicates that the provided value
				(decrypted) shall be used instead of the value
				derived from TOP and K.
hssGroupId	NfGroupId	0	01	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
vectorGenerationInHss	boolean	0	01	True. True indicates that the UDM needs to retrieve an
. 30.0. 30.10.10.10.11.11.103	20010411			Authentication Vector from the HSS;
				False and absence indicates that vector generation
n5gcDeviceAuthMethod	AuthMethod	0	01	shall be performed in the UDM. String containing the Authentication Method that
magobeviceAuthiviethod	Authorition		0 1	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.
rgAuthenticationInd	boolean	0	01	See NOTE. true: indicates that authentication by the home
19/10/11/00/10/11/10	Doolean		0 1	network is not required if authentication has been
				completed by the W-5GAN. See 3GPP TS 33.501 [9]
				clause 7b.
			1	false (default): otherwise.

supi	Supi	C 01	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 01	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 01	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 attrib	oute n5gcDeviceAuth	Method is used for	EAP-TLS, which is described in the informative annex O

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	Р	Cardinality	Description
dataType	string	М	1	This attribute value must be a string equals to the name of the actual data type of the "Value" attribute.
value	any type	М	1	name of the actual data type of the value attribute.
dataTypeDefinition	string	O	01	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	SupportedFeatur es	С	01	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].
resetlds	array(string)	0	1N	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:

```
"type": "integer"
       "operatorData3": {
         "type": "boolean"
    }
  }
}
                    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	Р	Cardinality	Description
N/A	array(SmfRegistr	М	1N	Each member of the array is an individual SMF
	ation)			registration of the UE.

5.4.2.5 Type: SubscriptionDataSubscriptions

Table 5.4.2.5-1: Definition of type SubscriptionDataSubscriptions

Attribute name	Data type	Р	Cardinality	Description
callbackReference	Uri	М	1	Identifies the UDM/NF pool or an individual UDM/NF which should be used by the UDR to send notification to UDM/NF.
originalCallbackReferen ce	Uri	0	01	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").
ueld	VarUeld	0	01	User identity if subscription to notifications is related to a user.
monitoredResourceUris	array(Uri)	М	1N	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]. See NOTE 1.
expiry	DateTime	С	01	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	0	01	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	HssSubscriptionI nfo	0	01	HSS Subscription Info associated with the sdmSubscription.
subscriptionId	string	С	01	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	С	01	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 Ueld attributes are not present. See clause 5.2.20.3.1.
supportedFeatures	SupportedFeatur es	0	01	Used to negotiate the applicability of optional features piSpecificResourceUriPart, see 3GPP TS 29.501 [7]

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.

5.4.2.6 Type: DataChangeNotify

Table 5.4.2.6-1: Definition of type DataChangeNotify

Attribute name	Data type	Р	Cardinality	Description
originalCallbackReferen ce	array(Uri)	С	1N	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.
ueld	VarUeld	O	01	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)	0	1N	This attribute contains the changes which have been applied on the resources.
sdmSubscription	SdmSubscription	0	01	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.
additionalSdmSubscripti ons	array(SdmSubscr iption)	C	1N	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(Subscriptio nDataSubscriptio ns)	0	1N	This attribute contain the Subscription Data Subscriptions (subs-to-notify) associated with the Notification.

5.4.2.7 Type: IdentityData

Table 5.4.2.7-1: Definition of type IdentityData

Attribute name	Data type	Р	Cardinality	Description
supiList	array(Supi)	С	1N	Supi list corresponding to the provided gpsi ueld.
gpsiList	array(Gpsi)	С	1N	Gpsi list corresponding to the provided supi ueld. Zero or one MSISDN and/or zero or more external
				Identifiers may be included.
allowedAflds	array(string)	0	1N	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)	0	1N	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	Р	Cardinality	Description
amData	AccessAndMobilitySub	0	01	Access and Mobility Subscription Data
	scriptionData			
smfSelData	SmfSelectionSubscript	0	01	SMF Selection Subscription Data
	ionData			
smsSubsData	SmsSubscriptionData	0	01	SMS Subscription Data
smData	SmSubsData	0	01	Session Management Subscription Data
traceData	TraceData	0	01	Trace Data. The Null value indicates that trace
				is not active.
smsMngData	SmsManagementSubs	0	01	SMS Management Subscription Data
	criptionData			
IcsPrivacyData	LcsPrivacyData	0	01	LCS Privacy Subscription Data
IcsMoData	LcsMoData	0	01	LCS Mobile Originated Subscription Data
IcsBcaData	LcsBroadcastAssistan	0	01	LCS Broadcast Assistance Subscription Data
	ceTypesData			
v2xData	V2xSubscriptionData	0	01	V2X Subscription Data
proseData	ProseSubscriptionData	0	01	ProSe service Subscription Data
odbData	OdbData	0	01	Operator Determined Barring Subscription Data
eeProfileData	EeProfileData	0	01	Event Exposure Profile Data
ppProfileData	PpProfileData	0	01	Parameter Provisioning Profile Data
niddAuthData	AuthorizationData	0	01	NIDD Authorization Data
mbsSubscriptionData	MbsSubscriptionData	0	01	5MBS Subscription Data

5.4.2.9 Type: SorData

Table 5.4.2.9-1: Definition of type SorData

Attribute name	Data type	Р	Cardinality	Description
provisioningTime	DateTime	М	1	Point in time of provisioning
ueUpdateStatus	UeUpdateStatus	М	1	status of the SOR data update procedure
sorXmaclue	SorMac	С	01	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".
sorMaclue	SorMac	С	01	String containing SoR-MAC-IUE as specified in 3GPP TS 33.501 [9]. Shall be preset if UeUpdateStatus is "ACK_RECEIVED".
meSupportOfSorCmci	Boolean	С	01	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

5.4.2.9A Type: UpuData

Table 5.4.2.9A-1: Definition of type UpuData

Attribute name	Data type	Р	Cardinality	Description
provisioningTime	DateTime	М	1	Point in time of provisioning
ueUpdateStatus	UeUpdateStatus	М	1	status of the UPU data update procedure
upuXmaclue	UpuMac	С	01	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".
upuMaclue	UpuMac	С	01	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	Р	Cardinality	Description
provisioningTime	DateTime	М	1	Point in time of provisioning
ueUpdateStatus	UeUpdateStatus	М	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	Р	Cardinality	Description
provisioningTime	DateTime	М	1	Point in time of provisioning
ueUpdateStatus	UeUpdateStatus	М	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	Р	Cardinality	Description
amfInstanceId	NfInstanceId	М	1	InstanceId of the AMF to which the subscription was sent
subscriptionId	Uri	М	1	The Subscription Id allocated by the AMF as received by the UDM in the HTTP "Location" header of the Namf_EventExposure_Subscribe response
subsChangeNotifyCorre lationId	string	0	1	The Correlation Id allocated by the UDM and sent to the AMF for correlation of subscriptionId-change-notifications
contextInfo	ContextInfo	0	01	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	Р	Cardinality	Description
restrictedEventTypes	array(EventType)	0	1N	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	SupportedFeatur es	0	01	
allowedMtcProvider	map(array(MtcPr ovider))	0	1N(1M)	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	0	01	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.
imsi	string	0	01	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	0	01	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	Р	Cardinality	Description
amf3Gpp	Amf3GppAccessReg	0	01	AMF 3GPP Access registration
	istration			
amfNon3Gpp	AmfNon3GppAccess	0	01	AMF Non 3GPP Access registration
	Registration			
sdmSubscriptions	array(SdmSubscripti	0	1N	SDM-Subscriptions
	on)			
eeSubscriptions	array(EeSubscription	0	1N	Event Exposure Subscriptions
smsf3GppAccess	SmsfRegistration	0	01	SMSF 3GPP Access registration
smsfNon3GppAccess	SmsfRegistration	0	01	SMSF Non 3GPP Access registration
subscriptionDataSubscri	array(SubscriptionDa	0	1N	This attribute contain the Subscription Data
ptions	taSubscriptions)			Subscriptions (subs-to-notify) associated with
				the Notification.
smfRegistrations	SmfRegList	0	01	SMF Registrations
ipSmGw	IpSmGwRegistration	0	01	IP-SM-GW Registration
roamingInfo	RoamingInfoUpdate	0	01	Roaming Information
peiInfo	PeiUpdateInfo	0	01	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	М	1	The scheme used to generate the sequence numbers, as described in 3GPP TS 33.102 [10], clause C.1.1.
sqn	string	C	01	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)	С	1N	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" - "vIr" - "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	0	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	0	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	Р	Cardinality	Description
mwdList	array(SmscData)	0		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	Р	Cardinality	Description		
smscMapAddress	E164Number	С	01	International E.164 number of the SM-SC; it shall be present if the SM-SC supports the MAP protocol.		
	NetworkNodeDia meterAddress	С	01	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	Р	Cardinality	Description
smfSubscriptionList	array(SmfSubscri	М	1N	List of SmfSubscriptionItem objects
	ptionItem)			

5.4.2.27 Type: SmfSubscriptionItem

Table 5.4.2.27-1: Definition of type SmfSubscriptionItem

Attribute name	Data type	Р	Cardinality	Description
smflnstanceld	NfInstanceId	М	1	InstanceId of the SMF to which the subscription was sent
subscriptionId	Uri	М	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	0	01	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	Р	Cardinality	Description
mtcProviderInformation	MtcProviderInfor	0	01	Indicates MTC provider information for Monitoring
	mation			Configuration authorization.
afld	string	0	01	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	Р	Cardinality	Description
hssSubscriptionList	array(HssSubscri	М	1N	List of hssSubscriptionItem objects
	ptionItem)			

5.4.2.30 Type: HssSubscriptionItem

Table 5.4.2.30-1: Definition of type HssSubscriptionItem

Attribute name	Data type	Р	Cardinality	Description
hssInstanceId	NfInstanceld	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	0	01	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	Р	Cardinality	Description
restrictedEventTypes	array(EventType)	0	1N	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(MtcPr ovider))	0	1N	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	SupportedFeatur es	0	01	
iwkEpcRestricted	boolean	0	01	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	0	01	This IE contains the External Group Identifier and should be present if the iwkEpcRestricted attribute is not set to True. pattern: "^extgroupid-[^@]+@[^@]+\$"
hssGroupId	NfGroupId	0	01	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	Р	Cardinality	Description
allowedMtcProviders	map(array(Allowe dMtcProviderInfo))	0	1N	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	SupportedFeatur es	0	01	

5.4.2.33 Type: PpProfileData

Table 5.4.2.33-1: Definition of type PpProfileData

Attribute name	Data type	Р	Cardinality	Description
allowedMtcProviders	map(array(Allowe dMtcProviderInfo)		1N	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	SupportedFeatur es	0	01	

5.4.2.34 Type: AllowedMtcProviderInfo

Table 5.4.2.34-1: Definition of type AllowedMtcProviderInfo

Attribute name	Data type	Р	Cardinality	Description
mtcProviderInformation	MtcProviderInfor	С	01	Indicates MTC provider information for Parameters
	mation			Provision authorization.
afld	string	С	01	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	Р	Cardinality	Description
extGroupId	ExtGroupId	С	01	This IE shall contain the External Group ID
				associated to the provided Internal Group ID.
intGroupId	GroupId	С	01	This IE shall contain the Internal Group ID
				associated to the provided External Group ID
ueldList	array(Ueld)	С	1N	This IE shall contain a list of the UE identifiers that
				belong to the provided Internal/External Group ID if
				they are required.
allowedAflds	array(string)	0	1N	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	Р	Cardinality	Description
authorizationData	array(UserIdentifi	М	1N	May contain a single value or list of (SUPI and
	er)			GPSI). Contains unique items.
allowedDnnList	array(Dnn)	0	0N	List of the allowed DNNs that this user can use for
				NIDD or other specific service
allowedSnssaiList	array(Snssai)	0	0N	List of the allowed SNSSAIs that this user can use
				for NIDD or other specific service
allowedMtcProviders	array(AllowedMtc	0	0N	List of AllowedMtcProviderInfos which include MTC
	ProviderInfo)			provider informations or AF IDs that are allowed for
				NIDD or other specific service
validityTime	DateTime	0	01	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	Р	Cardinality	Description
niddAuthorizationList	array(Authorizatio	М	1N	List of NiddAuthorizationInfo items
	nInfo)			

5.4.2.38 Type: PpDataEntryList

Table 5.4.2.38-1: Definition of type PpDataEntryList

Attribute name	Data type	Р	Cardinality	Description
ppDataEntryList	array(PpDataEntr	0	0N	List of the Entries under the Provisioned Parameter
	y)			Data store for a UE.
supportedFeatures	SupportedFeatur	0	01	Contains SupportedFeatures.
	es			

5.4.2.39 Type: UeSubscribedDataSets

Table 5.4.2.39-1: UeSubscribedDataSets

Attribute name	Data type	Р	Cardinality	Description
amData	AccessAndMobilitySub	0	01	Access and Mobility Subscription Data for the
	scriptionData			serving PLMN
smfSelData	SmfSelectionSubscript	0	01	SMF Selection Subscription Data for the
	ionData			serving PLMN
smsSubsData	SmsSubscriptionData	0	01	SMS Subscription Data for the serving PLMN
smData	SmSubsData	0	01	Session Management Subscription Data
traceData	TraceData	0	01	Trace Data for the serving PLMN. The Null
				value indicates that trace is not active.
smsMngData	SmsManagementSubs	0	01	SMS Management Subscription Data for the
	criptionData			serving PLMN
IcsPrivacyData	LcsPrivacyData	0	01	LCS Privacy Subscription Data
IcsMoData	LcsMoData	0	01	LCS Mobile Originated Subscription Data
IcsBcaData	LcsBroadcastAssistan	0	01	LCS Broadcast Assistance Subscription Data
	ceTypesData			for the serving PLMN
v2xData	V2xSubscriptionData	0	01	V2X Subscription Data
proseData	ProseSubscriptionData	0	01	ProSe service Subscription Data
odbData	OdbData	0	01	Operator Determined Barring Subscription Data
eeProfileData	EeProfileData	0	01	Event Exposure Profile Data
ppProfileData	PpProfileData	0	01	Parameter Provisioning Profile Data
niddAuthData	AuthorizationData	0	01	NIDD Authorization Data
ucData	UcSubscriptionData	0	01	User Consent Data
mbsSubscriptionData	MbsSubscriptionData	0	01	5MBS Subscription Data

5.4.2.40 Type: ServiceSpecificAuthorizationInfo

Table 5.4.2.40-1: Definition of type ServiceSpecificAuthorizationInfo

Attribute name	Data type	Р	Cardinality	Description
serviceSpecificAuthoriz	array(Authorizatio	М	1N	List of ServiceSpecificAuthorizationInfo items
ationList	nInfo)			

5.4.2.41 Type: Nfldentifier

Table 5.4.2.41-1: Definition of type Nfldentifier

Attribute name	Data type	Р	Cardinality	Description
nfType	NFType	М	1	NF Type as defined in 3gpp TS 29.510.
nflnstanceld	NfInstanceId	0	01	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	01		EeSubscriptionExt

5.4.2.43 Type: AdditionalEeSubsInfo

Table 5.4.2.43-1: Definition of type AdditionalEeSubsInfo

Attribute name	Data type	Р	Cardinality	Description	Applicability
amfSubscriptionInfoList	array(AmfSubs	0	12	List AMF subscription info	EeSubscription
	criptionInfo)			May be present on Nudr in GET response messages	Ext
smfSubscriptionInfo	SmfSubscriptio	0	01	SMF subscription info	EeSubscription
	nInfo			May be present on Nudr in GET response messages	Ext
hssSubscriptionInfo	HssSubscriptio	0	01	HSS subscription info	EeSubscription
	nInfo			May be present on Nudr in GET response messages	Ext

5.4.2.44 void

5.4.2.45 Type: Pp5gMbsGroupProfileData

Table 5.4.2.45-1: Definition of type Pp5gMbsGroupProfileData

Attribute name	Data type	Р	Cardinality	Description
allowedMbsInfos	map(array(Allowe dMbsInfo))	0	1N	A map (list of key-value pairs where ExtGroupId (see 3GPP TS 29.503 [6]) serves as key of a list of AllowedMbsInfos which include AF IDs that are allowed to create, update and delete a 5G MBS 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 AllowedMbsInfos that are allowed operating all the external group identifiers. The absence of this IE indicates that all the AFs are authorized to create, update and delete any 5G MBS Group.
supportedFeatures	SupportedFeatur es	0	01	

5.4.2.46 Type: AllowedMbsInfo

Table 5.4.2.46-1: Definition of type AllowedMbsInfo

Attribute name	Data type	Р	Cardinality	Description
afld	string	С	01	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].

5.4.3 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: DataSetName

Table 5.4.3.4-1: Enumeration DataSetName

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
"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

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		
3GPP TS 33.102 [10]; havin imply that UDM implementat	: 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 sorXmaclue shall be present; or UPU data update has been sent to the AMF; Acknowledgement has been requested. In this state upuXmaclue 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 sorXmaclue and sorMaclue shall be present; or UPU data update has been acknowledged by the UE. In this state upuXmaclue and upuMaclue 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

5.4.4 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	Р	Cardinality	Response	Description
			codes	
ProblemDetails	0	01	4xx, 5xx	For unsuccessful status codes, the UDR may provide detailed
			responses	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.
    © 2023, 3GPP Organizational Partners (ARIB, ATIS, CCSA, ETSI, TSDSI, TTA, TTC).
   All rights reserved.
externalDocs:
  description: 3GPP TS 29.505 V17.10.0; 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:
      summary: Retrieves the authentication subscription data of a UE
      operationId: QueryAuthSubsData
        - 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
          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'
      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
      14031.
       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'
       $ref: 'TS29571 CommonData.yaml#/components/responses/default'
/subscription-data/{ueId}/authentication-data/authentication-status:
    summary: To store the Authentication Status data of a UE
    operationId: CreateAuthenticationStatus
      - 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
    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'
     $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.
      default:
        $ref: 'TS29571 CommonData.yaml#/components/responses/default'
/subscription-data/{ueId}/authentication-data/authentication-status/{servingNetworkName}:
    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
        $ref: 'TS29571_CommonData.yaml#/components/responses/default'
  get:
    summary: Retrieves the Individual Authentication Status of a UE
    operationId: QueryIndividualAuthenticationStatus
     - 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'
       $ref: 'TS29571_CommonData.yaml#/components/responses/default'
    summary: To remove the Individual Authentication Status of a UE
    operationId: DeleteIndividualAuthenticationStatus
      - 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.
      default:
        $ref: 'TS29571 CommonData.yaml#/components/responses/default'
/subscription-data/{ueId}/ue-update-confirmation-data/sor-data:
    summary: To store the SoR acknowledgement information of a UE and ME support of SOR CMCI
    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
            $ref: 'TS29571 CommonData.yaml#/components/responses/default'
    summary: Retrieves the SoR acknowledgement information of a UE and ME support of SOR CMCI
    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
                application/json:
                     schema:
                         $ref: '#/components/schemas/SorData'
        default:
            $ref: 'TS29571 CommonData.yaml#/components/responses/default'
patch:
    summary: Updates the ME support of SOR CMCI 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:
                 \verb| $ref: 'TS29571_CommonData.yaml#/components/schemas/SupportedFeatures'| | TS29571_CommonData.yaml#/components/schemas/SupportedFeatures'| | TS29571_CommonData.yaml#/components/schemas/schemas/schemas/schemas/schemas/schemas/schemas/schemas/schemas/schemas/schemas/schemas/schemas/schemas/schemas/schemas/schemas/schemas/schemas/schemas/schemas/schemas/schemas/schemas/schemas/schemas/schemas/schemas/schemas/schemas/schemas/schemas/schemas/schemas/schemas/schemas/schemas/schemas/schemas/schemas/schemas/schemas/schemas/schemas/schemas/schemas/schemas/schemas/schemas/schemas/schemas/schemas/schemas/schemas/schemas/schemas/schemas/schemas/schemas/schemas/schemas/schemas/schemas/schemas/schemas/schemas/schemas/schemas/schemas/schemas/schemas/schemas/schemas/schemas/schemas/schemas/schemas/schemas/schemas/schemas/schemas/schemas/schemas/schemas/schemas/schemas/schemas/schemas/schemas/schemas/schemas/schemas/schemas/schemas/schemas/schemas/schemas/schemas/schemas/schemas/schemas/schemas/schemas/schemas/schemas/schemas/schemas/schemas/schemas/schemas/schemas/schemas/schemas/schemas/schemas/schemas/schemas/schemas/schemas/schemas/schemas/schemas/schemas/schemas/schemas/schemas/schemas/schemas/schemas/schemas/schemas/schemas/schemas/schemas/schemas/schemas/schemas/schemas/schemas/schemas/schemas/schemas/schemas/schemas/schemas/schemas/schemas/schemas/schemas/schemas/schema
    requestBody:
        content:
            application/json-patch+json:
                 schema:
                     type: array
                         $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'
       description: modification is rejected
       content:
          application/problem+json:
            schema:
             $ref: 'TS29571_CommonData.yaml#/components/schemas/ProblemDetails'
       $ref: 'TS29571 CommonData.yaml#/components/responses/default'
/subscription-data/{ueId}/ue-update-confirmation-data/upu-data:
   summary: To store the UPU acknowledgement information of a UE
   operationId: CreateAuthenticationUPU
      - 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
       $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:
       description: Expected response to a valid request
       content:
```

```
application/json:
            schema:
              $ref: '#/components/schemas/UpuData'
      default:
       $ref: 'TS29571 CommonData.yaml#/components/responses/default'
/subscription-data/{ueId}/ue-update-confirmation-data/subscribed-snssais:
    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
     default:
       $ref: 'TS29571 CommonData.yaml#/components/responses/default'
    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'
      default:
       $ref: 'TS29571_CommonData.yaml#/components/responses/default'
/subscription-data/{ueId}/ue-update-confirmation-data/subscribed-cag:
```

```
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
          $ref: 'TS29571 CommonData.yaml#/components/schemas/SupportedFeatures'
   requestBody:
      content:
       application/json:
          schema:
           $ref: '#/components/schemas/CagAckData'
     required: true
    responses:
       description: Expected response to a valid request
      default:
       $ref: 'TS29571 CommonData.yaml#/components/responses/default'
   summary: Retrieves the CAG acknowledgement information of a UE
   operationId: QueryCaqAck
   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'
       $ref: 'TS29571_CommonData.yaml#/components/responses/default'
/subscription-data/{ueId}/{servingPlmnId}/provisioned-data:
   summary: Retrieve multiple provisioned data sets of a UE
   operationId: QueryProvisionedData
     - 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/DatasetNames'
    responses:
      '200':
       description: Expected response to a valid request
       content:
          application/json:
            schema:
             $ref: '#/components/schemas/ProvisionedDataSets'
      default:
        $ref: 'TS29571_CommonData.yaml#/components/responses/default'
/subscription-data/{ueId}/{servingPlmnId}/provisioned-data/am-data:
    summary: Retrieves the access and mobility subscription data of a UE
    operationId: QueryAmData
      - 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
          $ref: 'TS29571_CommonData.yaml#/components/schemas/SupportedFeatures'
      - name: If-None-Match
```

```
in: header
          description: Validator for conditional requests, as described in RFC 7232, 3.2
          schema:
            type: string
        - name: If-Modified-Since
          in: header
          description: Validator for conditional requests, as described in RFC 7232, 3.3
          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 7234, 5.2
              schema:
               type: string
              description: Entity Tag, containing a strong validator, as described in RFC 7232, 2.3
              schema:
                type: string
            Last-Modified:
              description: Timestamp for last modification of the resource, as described in RFC
7232, 2.2
              schema:
                type: string
        default:
          $ref: 'TS29571_CommonData.yaml#/components/responses/default'
  /subscription-data/\{ueId\}/\{servingPlmnId\}/provisioned-data/smf-selection-subscription-data: \\
      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 7232, 3.2
```

```
schema:
           type: string
        - name: If-Modified-Since
          in: header
          description: Validator for conditional requests, as described in RFC 7232, 3.3
          schema:
            type: string
      responses:
        '200':
          description: Expected response to a valid request
            application/ison:
              schema:
               $ref: '#/components/schemas/SmfSelectionSubscriptionData'
          headers:
            Cache-Control:
              description: Cache-Control containing max-age, as described in RFC 7234, 5.2
              schema:
               type: string
            ETag:
              description: Entity Tag, containing a strong validator, as described in RFC 7232, 2.3
              schema:
                type: string
            Last-Modified:
              description: Timestamp for last modification of the resource, as described in RFC
7232, 2.2
              schema:
               type: string
        default:
          $ref: 'TS29571_CommonData.yaml#/components/responses/default'
  /subscription-data/{ueId}/{servingPlmnId}/provisioned-data/sm-data:
      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
           $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: querv
          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 7232, 3.2
          schema:
            type: string
        - name: If-Modified-Since
          in: header
          description: Validator for conditional requests, as described in RFC 7232, 3.3
          schema:
           type: string
      responses:
        '200':
          description: Expected response to a valid request
           application/json:
              schema:
               $ref: '#/components/schemas/SmSubsData'
          headers:
            Cache-Control:
              description: Cache-Control containing max-age, as described in RFC 7234, 5.2
              schema:
                type: string
              description: Entity Tag, containing a strong validator, as described in RFC 7232, 2.3
              schema:
               type: string
            Last-Modified:
              description: Timestamp for last modification of the resource, as described in RFC
7232, 2.2
              schema:
               type: string
        default:
          $ref: 'TS29571 CommonData.yaml#/components/responses/default'
  /subscription-data/{ueId}/context-data/amf-3gpp-access:
      summary: Retrieves the AMF context data of a UE using 3gpp access
      operationId: QueryAmfContext3gpp
        - 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'
        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: CreateAmfContext3qpp
      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'
            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
        default:
          $ref: 'TS29571_CommonData.yaml#/components/responses/default'
   patch:
      summary: To modify the AMF context data of a UE using 3qpp access in the UDR
      operationId: AmfContext3gpp
       - 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
```

```
$ref: 'TS29571 CommonData.yaml#/components/schemas/VarUeId'
      - name: supported-features
       in: query
        description: Features required to be supported by the target NF
          $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:
      12041 .
       description: Expected response to a valid request
       description: Expected response to a valid request
       content:
          application/json:
             $ref: 'TS29571 CommonData.yaml#/components/schemas/PatchResult'
      14031.
       description: modification is rejected
        content:
          application/problem+json:
            schema:
              $ref: 'TS29571_CommonData.yaml#/components/schemas/ProblemDetails'
      default:
        $ref: 'TS29571_CommonData.yaml#/components/responses/default'
/subscription-data/{ueId}/context-data/amf-non-3gpp-access:
    summary: Retrieves the AMF context data of a UE using non-3gpp access
   operationId: QueryAmfContextNon3qpp
   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:
           \verb| fref: 'TS29571_CommonData.yaml#/components/schemas/SupportedFeatures'| \\
    responses:
       description: Expected response to a valid request
       content:
          application/json:
            schema:
             $ref: '#/components/schemas/AmfNon3GppAccessRegistration'
      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
       - 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
          description: Created
          content:
           application/json:
              schema:
                $ref: '#/components/schemas/Amf3GppAccessRegistration'
             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
        default:
         $ref: 'TS29571_CommonData.yaml#/components/responses/default'
      summary: To modify the AMF context data of a UE using non 3gpp access in the UDR
      operationId: AmfContextNon3gpp
        - 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'
       description: modification is rejected
        content:
          application/problem+json:
            schema:
              $ref: 'TS29571 CommonData.yaml#/components/schemas/ProblemDetails'
      default:
        $ref: 'TS29571_CommonData.yaml#/components/responses/default'
/subscription-data/{ueId}/context-data/smf-registrations:
   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'
      default:
        $ref: 'TS29571_CommonData.yaml#/components/responses/default'
/subscription-data/{ueId}/context-data/smf-registrations/{pduSessionId}:
    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'
        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
            $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
        default:
          $ref: 'TS29571_CommonData.yaml#/components/responses/default'
    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.
        default:
          $ref: 'TS29571_CommonData.yaml#/components/responses/default'
      summary: To modify the SMF context data of a UE in the UDR
      operationId: UpdateSmfContext
        - 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
            $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
       description: Expected response to a valid request
       content:
          application/json:
           schema:
             $ref: 'TS29571 CommonData.yaml#/components/schemas/PatchResult'
      '403':
       description: modification is rejected
         application/problem+json:
           schema:
              $ref: 'TS29571_CommonData.yaml#/components/schemas/ProblemDetails'
       $ref: 'TS29571 CommonData.yaml#/components/responses/default'
/subscription-data/{ueId}/operator-specific-data:
   summary: Retrieves the operator specific data of a UE
   operationId: QueryOperSpecData
      - 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: querv
       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 7232, 3.2
       schema:
          type: string
      - name: If-Modified-Since
       in: header
       description: Validator for conditional requests, as described in RFC 7232, 3.3
       schema:
         type: string
    responses:
      '200':
       description: Expected response to a valid request
          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 7234, 5.2
              schema:
                type: string
            ETag:
              description: Entity Tag, containing a strong validator, as described in RFC 7232, 2.3
              schema:
                type: string
            Last-Modified:
              description: Timestamp for last modification of the resource, as described in RFC
7232, 2.2
              schema:
               type: string
          $ref: 'TS29571 CommonData.yaml#/components/responses/default'
      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'
        '403':
          description: modification is rejected
          content:
            application/problem+json:
              schema:
               $ref: 'TS29571 CommonData.yaml#/components/schemas/ProblemDetails'
        default:
          $ref: 'TS29571 CommonData.yaml#/components/responses/default'
      summary: To create an operator-specific data resource of a UE
      operationId: CreateOperSpecData
       - 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
        '403':
          $ref: 'TS29571 CommonData.yaml#/components/responses/403'
        default:
          $ref: 'TS29571_CommonData.yaml#/components/responses/default'
      summary: To remove an operator-specific data resource of a UE
      operationId: DeleteOperSpecData
       - 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.
          $ref: 'TS29571 CommonData.yaml#/components/responses/403'
        default:
```

```
$ref: 'TS29571 CommonData.yaml#/components/responses/default'
 /subscription-data/{ueId}/context-data/smsf-3gpp-access:
     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'
          $ref: 'TS29571 CommonData.yaml#/components/responses/default'
      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
     default:
       $ref: 'TS29571 CommonData.yaml#/components/responses/default'
    summary: Retrieves the SMSF context data of a UE using 3gpp access
    operationId: QuerySmsfContext3gpp
     - 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: querv
       description: Supported Features
       schema:
          $ref: 'TS29571 CommonData.yaml#/components/schemas/SupportedFeatures'
   responses:
      '200':
       description: Expected response to a valid request
         application/json:
           schema:
              $ref: '#/components/schemas/SmsfRegistration'
        $ref: 'TS29571 CommonData.yaml#/components/responses/default'
/subscription-data/{ueId}/context-data/smsf-non-3gpp-access:
   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
          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'
        default:
          $ref: 'TS29571_CommonData.yaml#/components/responses/default'
      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
          $ref: 'TS29571 CommonData.yaml#/components/responses/default'
      summary: Retrieves the SMSF context data of a UE using non-3gpp access
      operationId: QuerySmsfContextNon3qpp
      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: querv
          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:
       description: Expected response to a valid request
       content:
          application/json:
           schema:
              $ref: '#/components/schemas/SmsfRegistration'
      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
     - 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
         $ref: 'TS29571 CommonData.yaml#/components/schemas/VarUeId'
   requestBody:
      content:
       application/json:
           $ref: '#/components/schemas/IpSmGwRegistration'
     required: true
    responses:
       description: Upon success, an empty response body shall be returned
     default:
       $ref: 'TS29571_CommonData.yaml#/components/responses/default'
    summary: To remove the IP-SM-GW context data of a UE
   operationId: DeleteIpSmGwContext
     - 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
```

```
$ref: 'TS29571 CommonData.yaml#/components/schemas/VarUeId'
 responses:
    '204':
     description: Upon success, an empty response body shall be returned
     $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
    '403':
     $ref: 'TS29571_CommonData.yaml#/components/responses/403'
     $ref: 'TS29571 CommonData.yaml#/components/responses/404'
    default:
     $ref: 'TS29571 CommonData.yaml#/components/responses/default'
  summary: Retrieves the IP-SM-GW context data of a UE
  operationId: QueryIpSmGwContext
    - 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
            application/json:
              schema:
                $ref: '#/components/schemas/IpSmGwRegistration'
        default:
          $ref: 'TS29571 CommonData.yaml#/components/responses/default'
  /subscription-data/{ueId}/context-data/mwd:
      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
        12041:
         description: Upon success, an empty response body shall be returned
        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
    default:
      $ref: 'TS29571 CommonData.yaml#/components/responses/default'
  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:
     application/json-patch+json:
        schema:
          type: array
            $ref: 'TS29571 CommonData.yaml#/components/schemas/PatchItem'
          minItems: 1
    required: true
  responses:
    '204':
     description: Successful response
    14031 .
      $ref: 'TS29571 CommonData.yaml#/components/responses/403'
    '404':
     $ref: 'TS29571 CommonData.yaml#/components/responses/404'
    default:
      $ref: 'TS29571_CommonData.yaml#/components/responses/default'
get:
  summary: Retrieves the Message Waiting Data of the UE
  operationId: QueryMessageWaitingData
   - 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
```

```
$ref: 'TS29571 CommonData.yaml#/components/schemas/SupportedFeatures'
     responses:
        '200':
         description: Expected response to a valid request
         content:
            application/ison:
              schema:
                $ref: '#/components/schemas/MessageWaitingData'
        default:
          $ref: 'TS29571_CommonData.yaml#/components/responses/default'
  /subscription-data/{ueId}/{servingPlmnId}/provisioned-data/sms-mng-data:
     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 7232, 3.2
         schema:
           type: string
        - name: If-Modified-Since
         in: header
         description: Validator for conditional requests, as described in RFC 7232, 3.3
         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 7234, 5.2
              schema:
                type: string
           ETag:
              description: Entity Tag, containing a strong validator, as described in RFC 7232, 2.3
              schema:
                type: string
            Last-Modified:
              description: Timestamp for last modification of the resource, as described in RFC
7232, 2.2
              schema:
               type: string
        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 7232, 3.2
         schema:
           type: string
        - name: If-Modified-Since
         in: header
          description: Validator for conditional requests, as described in RFC 7232, 3.3
         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 7234, 5.2
              schema:
               type: string
            ETag:
              description: Entity Tag, containing a strong validator, as described in RFC 7232, 2.3
              schema:
               type: string
           Last-Modified:
              description: Timestamp for last modification of the resource, as described in RFC
7232, 2.2
             schema:
               type: string
        default:
          $ref: 'TS29571 CommonData.yaml#/components/responses/default'
 /subscription-data/{ueId}/pp-data:
     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
            $ref: 'TS29571_CommonData.yaml#/components/schemas/SupportedFeatures'
        - name: If-None-Match
          in: header
          description: Validator for conditional requests, as described in RFC 7232, 3.2
          schema:
           type: string
        - name: If-Modified-Since
          in: header
          description: Validator for conditional requests, as described in RFC 7232, 3.3
          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 7234, 5.2
              schema:
               type: string
            ETag:
              description: Entity Tag, containing a strong validator, as described in RFC 7232, 2.3
               type: string
            Last-Modified:
              description: Timestamp for last modification of the resource, as described in RFC
7232, 2.2
              schema:
                type: string
        14031:
          description: Forbidden
            application/problem+json:
              schema:
                $ref: 'TS29571 CommonData.yaml#/components/schemas/ProblemDetails'
        default:
          $ref: 'TS29571 CommonData.yaml#/components/responses/default'
      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:
      12041:
       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'
       description: modification is rejected
        content:
          application/problem+json:
            schema:
              $ref: 'TS29571 CommonData.yaml#/components/schemas/ProblemDetails'
      default:
        $ref: 'TS29571_CommonData.yaml#/components/responses/default'
/subscription-data/{ueId}/pp-profile-data:
   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'
      default:
        $ref: 'TS29571_CommonData.yaml#/components/responses/default'
/subscription-data/{ueId}/pp-data-store/{afInstanceId}:
    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'
     description: Indicating a successful creation of the resource.
    '400'
      $ref: 'TS29571 CommonData.yaml#/components/responses/400'
     $ref: 'TS29571_CommonData.yaml#/components/responses/403'
    '404':
      $ref: 'TS29571 CommonData.yaml#/components/responses/404'
      $ref: 'TS29571 CommonData.yaml#/components/responses/500'
    15031:
     $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
     $ref: 'TS29571 CommonData.yaml#/components/responses/400'
    '403':
     $ref: 'TS29571 CommonData.yaml#/components/responses/403'
    '404':
     $ref: 'TS29571 CommonData.yaml#/components/responses/404'
    '500':
      $ref: 'TS29571_CommonData.yaml#/components/responses/500'
```

```
'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
       ProvisionedParameterDataEntry (Document)
   parameters:
      - name: ueId
       in: path
       description: Identifier of the UE
       required: true
       schema:
          anvOf:
            - $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
         $ref: 'TS29571_CommonData.yaml#/components/schemas/SupportedFeatures'
    responses:
      '200':
       description: Expected response to a valid request
         application/json:
           schema:
              $ref: 'TS29503_Nudm_PP.yaml#/components/schemas/PpDataEntry'
      '400' •
       $ref: 'TS29571 CommonData.yaml#/components/responses/400'
      '403':
       $ref: 'TS29571_CommonData.yaml#/components/responses/403'
      '404':
       $ref: 'TS29571_CommonData.yaml#/components/responses/404'
      '500':
       $ref: 'TS29571 CommonData.yaml#/components/responses/500'
      15031.
        $ref: 'TS29571 CommonData.yaml#/components/responses/503'
       description: Unexpected error
/subscription-data/{ueId}/pp-data-store:
   summary: get a list of Parameter Provisioning Data Entries
   operationId: Get Multiple PP Data Entries
    tags:
     - ProvisionedParameterDataEntries (Collection)
   parameters:
      - name: neTd
       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
       description: Features required to be supported by the target NF
       schema:
          $ref: 'TS29571_CommonData.yaml#/components/schemas/SupportedFeatures'
    responses:
       description: Expected response to a valid request
       content:
```

```
application/json:
            schema:
              $ref: '#/components/schemas/PpDataEntryList'
      '400':
       $ref: 'TS29571 CommonData.yaml#/components/responses/400'
       $ref: 'TS29571 CommonData.yaml#/components/responses/403'
      '404':
       $ref: 'TS29571_CommonData.yaml#/components/responses/404'
      '500':
       $ref: 'TS29571 CommonData.yaml#/components/responses/500'
      15031.
       $ref: 'TS29571 CommonData.yaml#/components/responses/503'
      default:
       description: Unexpected error
/subscription-data/{ueId}/context-data/ee-subscriptions:
    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: querv
       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'
      default:
       $ref: 'TS29571_CommonData.yaml#/components/responses/default'
    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'
            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
          $ref: 'TS29571 CommonData.yaml#/components/responses/default'
  /subscription-data/{ueId}/context-data/ee-subscriptions/{subsId}:
      summary: Update an individual ee subscriptions of a UE
      operationId: UpdateEesubscriptions
        - 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:
              $ref: '#/components/schemas/EeSubscription'
        required: true
      responses:
        '204':
          description: Upon success, an empty response body shall be returned
          description: update of non-existing resource is rejected
          content:
            application/problem+json:
              schema:
                $ref: 'TS29571_CommonData.yaml#/components/schemas/ProblemDetails'
```

```
default:
     $ref: 'TS29571 CommonData.yaml#/components/responses/default'
delete:
  summary: Deletes a eeSubscription
  operationId: RemoveeeSubscriptions
    - 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:
    12041:
     description: Expected response to a successful subscription removal
     $ref: 'TS29571_CommonData.yaml#/components/responses/default'
  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
     description: Expected response to a valid request
     content:
        application/json:
```

```
$ref: 'TS29571 CommonData.yaml#/components/schemas/PatchResult'
      '403':
       $ref: 'TS29571_CommonData.yaml#/components/responses/403'
      '404':
       $ref: 'TS29571 CommonData.yaml#/components/responses/404'
      default:
       $ref: 'TS29571_CommonData.yaml#/components/responses/default'
   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'
      default:
       $ref: 'TS29571_CommonData.yaml#/components/responses/default'
/subscription-data/{ueId}/context-data/ee-subscriptions/{subsId}/amf-subscriptions:
   summary: Create AmfSubscriptions for an individual ee subscriptions of a UE
   operationId: Create AMF Subscriptions
     - 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
   description: Upon successful creation, the created resource shall be returned
   content:
      application/json:
        schema:
          type: array
          items:
            $ref: '#/components/schemas/AmfSubscriptionInfo'
          minItems: 1
  default:
    $ref: 'TS29571 CommonData.yaml#/components/responses/default'
summary: Deletes AMF Subscription Info for an eeSubscription
operationId: RemoveAmfSubscriptionsInfo
 - 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
  default:
   $ref: 'TS29571 CommonData.yaml#/components/responses/default'
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
      $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'
       description: modification is rejected
       content:
         application/problem+json:
           schema:
            $ref: 'TS29571 CommonData.yaml#/components/schemas/ProblemDetails'
     default:
       $ref: 'TS29571_CommonData.yaml#/components/responses/default'
 get:
   summary: Retrieve AMF subscription Info
   operationId: GetAmfSubscriptionInfo
     - 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
     default:
       $ref: 'TS29571 CommonData.yaml#/components/responses/default'
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
     description: Upon successful creation, the created resource shall be returned
     content:
       application/json:
          schema:
           $ref: '#/components/schemas/SmfSubscriptionInfo'
    default:
      $ref: 'TS29571_CommonData.yaml#/components/responses/default'
delete:
  summary: Delete SMF Subscription Info
  operationId: RemoveSmfSubscriptionsInfo
   - 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
   default:
     $ref: 'TS29571 CommonData.yaml#/components/responses/default'
  summary: Modify SMF Subscription Info
  operationId: ModifySmfSubscriptionInfo
    - 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: querv
      description: Features required to be supported by the target NF
       $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'
      '403':
        description: modification is rejected
          application/problem+json:
            schema:
             $ref: 'TS29571_CommonData.yaml#/components/schemas/ProblemDetails'
        $ref: 'TS29571_CommonData.yaml#/components/responses/default'
    summary: Retrieve SMF Subscription Info
    operationId: GetSmfSubscriptionInfo
     - 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'
        $ref: 'TS29571_CommonData.yaml#/components/responses/default'
/subscription-data/{ueId}/context-data/ee-subscriptions/{subsId}/hss-subscriptions:
    summary: Create HSS Subscription Info
    operationId: Create HSS Subscriptions
     - 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
     description: Upon successful creation, the created resource shall be returned
     content:
        application/json:
          schema:
           $ref: '#/components/schemas/HssSubscriptionInfo'
    default:
      $ref: 'TS29571 CommonData.yaml#/components/responses/default'
delete:
  summary: Delete HSS Subscription Info
  operationId: RemoveHssSubscriptionsInfo
    - 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:
     description: Expected response to a successful subscription removal
    default:
     $ref: 'TS29571 CommonData.yaml#/components/responses/default'
  summary: Modify HSS Subscription Info
  operationId: ModifyHssSubscriptionInfo
    - 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
       application/json:
          schema:
            $ref: 'TS29571_CommonData.yaml#/components/schemas/PatchResult'
     description: modification is rejected
      content:
        application/problem+json:
```

```
$ref: 'TS29571 CommonData.yaml#/components/schemas/ProblemDetails'
      default:
       $ref: 'TS29571_CommonData.yaml#/components/responses/default'
   summary: Retrieve HSS Subscription Info
   operationId: GetHssSubscriptionInfo
      - 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'
       $ref: 'TS29571_CommonData.yaml#/components/responses/default'
/subscription-data/group-data/{ueGroupId}/ee-subscriptions:
   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'
      default:
       $ref: 'TS29571_CommonData.yaml#/components/responses/default'
    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
            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
        default:
          $ref: 'TS29571 CommonData.yaml#/components/responses/default'
  /subscription-data/group-data/{ueGroupId}/ee-subscriptions/{subsId}:
      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:
        12041:
          description: Upon success, an empty response body shall be returned
          description: update of non-existing resource is rejected
          content:
            application/problem+json:
              schema:
                $ref: 'TS29571 CommonData.yaml#/components/schemas/ProblemDetails'
          $ref: 'TS29571_CommonData.yaml#/components/responses/default'
      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
  default:
   $ref: 'TS29571 CommonData.yaml#/components/responses/default'
summary: Modify an individual ee subscription for a group of a UEs
operationId: ModifyEeGroupSubscription
  - 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
      $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
   description: Expected response to a valid request
   content:
     application/json:
         $ref: 'TS29571 CommonData.yaml#/components/schemas/PatchResult'
  '403':
   $ref: 'TS29571_CommonData.yaml#/components/responses/403'
  '404':
   $ref: 'TS29571_CommonData.yaml#/components/responses/404'
  default:
   $ref: 'TS29571_CommonData.yaml#/components/responses/default'
```

```
get:
   summary: Retrieve a individual eeSubscription for a group of UEs or any UE
   operationId: QueryEeGroupSubscription
     - Event Exposure Group Subscription (Document)
    security:
     - {}
      - oAuth2ClientCredentials:
        - nudr-dr
      - oAuth2ClientCredentials:
       - nudr-dr
       - nudr-dr:subscription-data
   parameters:
      - name: ueGroupId
       in: path
       required: true
           $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:
             $ref: '#/components/schemas/EeSubscription'
        $ref: 'TS29571 CommonData.yaml#/components/responses/default'
/subscription-data/group-data/{ueGroupId}/ee-profile-data:
   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'
      default:
        $ref: 'TS29571 CommonData.yaml#/components/responses/default'
/subscription-data/{ueId}/ee-profile-data:
   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: querv
        description: Supported Features
           $ref: 'TS29571 CommonData.yaml#/components/schemas/SupportedFeatures'
    responses:
      '200':
       description: Expected response to a valid request
        content:
          application/json:
            schema:
              $ref: '#/components/schemas/EeProfileData'
      default:
        $ref: 'TS29571_CommonData.yaml#/components/responses/default'
/subscription-data/{ueId}/context-data/sdm-subscriptions:
    summary: Retrieves the sdm subscriptions of a UE
    operationId: Querysdmsubscriptions
      - 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: querv
        description: Supported Features
          $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'
      default:
        $ref: 'TS29571_CommonData.yaml#/components/responses/default'
    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
        default:
          $ref: 'TS29571_CommonData.yaml#/components/responses/default'
  /subscription-data/{ueId}/context-data/sdm-subscriptions/{subsId}:
      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
        '404':
          description: update of non-existing resource is rejected
          content:
            application/problem+json:
              schema:
```

```
$ref: 'TS29571 CommonData.yaml#/components/schemas/ProblemDetails'
    default:
        $ref: 'TS29571 CommonData.yaml#/components/responses/default'
summary: Deletes a sdmsubscriptions
operationId: RemovesdmSubscriptions
    - 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
            type: string
responses:
     '204':
        description: Expected response to a successful subscription removal
        $ref: 'TS29571 CommonData.yaml#/components/responses/404'
    default:
        $ref: 'TS29571 CommonData.yaml#/components/responses/default'
summary: Modify an individual sdm subscription
operationId: ModifysdmSubscription
    - 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:
             \verb| $ref: 'TS29571_CommonData.yaml#/components/schemas/SupportedFeatures'| | TS29571_CommonData.yaml#/components/schemas/SupportedFeatures'| | TS29571_CommonData.yaml#/components/schemas/schemas/schemas/schemas/schemas/schemas/schemas/schemas/schemas/schemas/schemas/schemas/schemas/schemas/schemas/schemas/schemas/schemas/schemas/schemas/schemas/schemas/schemas/schemas/schemas/schemas/schemas/schemas/schemas/schemas/schemas/schemas/schemas/schemas/schemas/schemas/schemas/schemas/schemas/schemas/schemas/schemas/schemas/schemas/schemas/schemas/schemas/schemas/schemas/schemas/schemas/schemas/schemas/schemas/schemas/schemas/schemas/schemas/schemas/schemas/schemas/schemas/schemas/schemas/schemas/schemas/schemas/schemas/schemas/schemas/schemas/schemas/schemas/schemas/schemas/schemas/schemas/schemas/schemas/schemas/schemas/schemas/schemas/schemas/schemas/schemas/schemas/schemas/schemas/schemas/schemas/schemas/schemas/schemas/schemas/schemas/schemas/schemas/schemas/schemas/schemas/schemas/schemas/schemas/schemas/schemas/schemas/schemas/schemas/schemas/schemas/schemas/schemas/schemas/schemas/schemas/schemas/schemas/schemas/schemas/schemas/schemas/schemas/schemas/schemas/schemas/schemas/schemas/schemas/schemas/schemas/schemas/schemas/schemas/schemas/schemas/schemas/schemas/schemas/schemas/schemas/schemas/schemas/schemas/schemas/schemas/schemas/schemas/schemas/schemas/schema
requestBody:
    content:
        application/json-patch+json:
             schema:
                  type: array
                      $ref: 'TS29571 CommonData.yaml#/components/schemas/PatchItem'
                 minItems: 1
    required: true
responses:
        description: Successful response
     '200':
```

```
description: Expected response to a valid request
       content:
          application/json:
           schema:
              $ref: 'TS29571 CommonData.yaml#/components/schemas/PatchResult'
       $ref: 'TS29571 CommonData.yaml#/components/responses/403'
      '404':
       $ref: 'TS29571_CommonData.yaml#/components/responses/404'
      default:
       $ref: 'TS29571_CommonData.yaml#/components/responses/default'
    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'
       $ref: 'TS29571 CommonData.yaml#/components/responses/default'
/subscription-data/{ueId}/context-data/sdm-subscriptions/{subsId}/hss-sdm-subscriptions:
   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
     default:
       $ref: 'TS29571 CommonData.yaml#/components/responses/default'
    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
    default:
     $ref: 'TS29571_CommonData.yaml#/components/responses/default'
  summary: Modify HSS SDM Subscription Info
  operationId: ModifyHssSDMSubscriptionInfo
    - HSS SDM Subscription Info (Document)
 parameters:
    - name: ueId
     in: path
     required: true
       $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:
        \verb| fref: 'TS29571_CommonData.yaml#/components/schemas/SupportedFeatures'| \\
  requestBody:
    content:
     application/json-patch+json:
        schema:
          type: array
            $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'
    '403':
     description: modification is rejected
     content:
        application/problem+json:
          schema:
            $ref: 'TS29571_CommonData.yaml#/components/schemas/ProblemDetails'
    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'
      default:
        $ref: 'TS29571 CommonData.yaml#/components/responses/default'
/subscription-data/shared-data:
   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'
      '404':
       $ref: 'TS29571_CommonData.yaml#/components/responses/404'
      '500':
        $ref: 'TS29571 CommonData.yaml#/components/responses/500'
      '503':
       $ref: 'TS29571_CommonData.yaml#/components/responses/503'
      default:
        $ref: 'TS29571 CommonData.yaml#/components/responses/default'
/subscription-data/shared-data/{sharedDataId}:
    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 7232, 3.2
         type: string
      - name: If-Modified-Since
       in: header
       description: Validator for conditional requests, as described in RFC 7232, 3.3
         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 7234, 5.2
              schema:
               type: string
            ETag:
              description: Entity Tag, containing a strong validator, as described in RFC 7232, 2.3
                type: string
            Last-Modified:
              description: Timestamp for last modification of the resource, as described in RFC
7232, 2.2
               type: string
        '400'.
          $ref: 'TS29571 CommonData.yaml#/components/responses/400'
          $ref: 'TS29571 CommonData.yaml#/components/responses/404'
        '500':
          $ref: 'TS29571 CommonData.yaml#/components/responses/500'
          $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:
              $ref: '#/components/schemas/SubscriptionDataSubscriptions'
       required: true
      responses:
        '201':
          description: Expected response to a valid request
          content:
            application/json:
              schema:
                $ref: '#/components/schemas/SubscriptionDataSubscriptions'
            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
        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
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'
    '200':
     description: Expected response to a valid request
      content:
        application/json:
          schema:
            type: array
            items:
              $ref: '#/components/schemas/SubscriptionDataSubscriptions'
    default:
     $ref: 'TS29571_CommonData.yaml#/components/responses/default'
  summary: Deletes subscriptions identified by a given ue-id parameter
  {\tt operationId:} \ {\tt 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
       $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
        $ref: 'TS29571 CommonData.yaml#/components/responses/default'
/subscription-data/subs-to-notify/{subsId}:
   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
         type: string
    responses:
      '204':
       description: Expected response to a successful subscription removal
        $ref: 'TS29571_CommonData.yaml#/components/responses/default'
    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
        description: Expected response to a valid request
       content:
          application/json:
            schema:
              oneOf:
                - $ref: 'TS29571 CommonData.yaml#/components/schemas/PatchResult'
                - $ref: '#/components/schemas/SubscriptionDataSubscriptions'
      '403':
```

```
$ref: 'TS29571 CommonData.yaml#/components/responses/403'
       $ref: 'TS29571 CommonData.yaml#/components/responses/404'
      default:
       $ref: 'TS29571 CommonData.yaml#/components/responses/default'
    summary: Retrieves a individual subscriptionDataSubscription identified by subsId
    operationId: QuerySubscriptionDataSubscriptions
     - 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:
               $ref: '#/components/schemas/SubscriptionDataSubscriptions'
        $ref: 'TS29571 CommonData.yaml#/components/responses/default'
/subscription-data/{ueId}/{servingPlmnId}/provisioned-data/trace-data:
   summary: Retrieves the trace configuration data of a {\tt 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 7232, 3.2
       schema:
         type: string
      - name: If-Modified-Since
       in: header
       description: Validator for conditional requests, as described in RFC 7232, 3.3
       schema:
         type: string
   responses:
      '200':
       description: Expected response to a valid request
       content:
         application/json:
           schema:
```

```
$ref: 'TS29571 CommonData.yaml#/components/schemas/TraceData'
         headers:
            Cache-Control:
              description: Cache-Control containing max-age, as described in RFC 7234, 5.2
              schema:
               type: string
            ETaq:
              description: Entity Tag, containing a strong validator, as described in RFC 7232, 2.3
                type: string
            Last-Modified:
              description: Timestamp for last modification of the resource, as described in RFC
7232, 2.2
               type: string
        default:
         $ref: 'TS29571 CommonData.yaml#/components/responses/default'
  /subscription-data/{ueId}/identity-data:
      summary: Retrieve identity data by SUPI or GPSI
      operationId: GetIdentityData
       - 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 7232, 3.2
          schema:
           type: string
        - name: If-Modified-Since
          in: header
          description: Validator for conditional requests, as described in RFC 7232, 3.3
         schema:
           type: string
      responses:
        '200':
         description: OK
         content:
            application/json:
              schema:
                $ref: '#/components/schemas/IdentityData'
            Cache-Control:
              description: Cache-Control containing max-age, as described in RFC 7234, 5.2
              schema:
               type: string
            ETag:
              description: Entity Tag, containing a strong validator, as described in RFC 7232, 2.3
              schema:
            Last-Modified:
             description: Timestamp for last modification of the resource, as described in RFC
7232, 2.2
              schema:
               type: string
        '403':
          $ref: 'TS29571_CommonData.yaml#/components/responses/403'
```

```
default:
        $ref: 'TS29571 CommonData.yaml#/components/responses/default'
/ \verb|subscription-data|/ \{ \verb|ueId|| \} / operator-determined-barring-data:
    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:
      12001.
        description: OK
        content:
          application/json:
            schema:
              $ref: 'TS29571_CommonData.yaml#/components/schemas/OdbData'
      default:
        $ref: 'TS29571_CommonData.yaml#/components/responses/default'
/subscription-data/{ueId}/context-data:
    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'
      default:
        $ref: 'TS29571 CommonData.yaml#/components/responses/default'
/subscription-data/group-data/group-identifiers:
    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'
      '200':
       description: Expected response to a valid request
        content:
         application/json:
           schema:
              $ref: '#/components/schemas/GroupIdentifiers'
      14031 .
       $ref: 'TS29571 CommonData.yaml#/components/responses/403'
      default:
        $ref: 'TS29571 CommonData.yaml#/components/responses/default'
/subscription-data/group-data/5g-vn-groups:
    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
          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'
      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'
       $ref: 'TS29571 CommonData.yaml#/components/responses/403'
       $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:
       description: Expected response to a successful group removal
      default:
       $ref: 'TS29571 CommonData.yaml#/components/responses/default'
   summary: modify the 5GVnGroup
   operationId: Modify5GVnGroup
      - Modify 5GVnGroup
   security:
     - {}
      - oAuth2ClientCredentials:
       - nudr-dr
      - oAuth2ClientCredentials:
       - nudr-dr
        - nudr-dr:subscription-data
   parameters:
      - name: externalGroupId
       in: path
       required: true
```

```
$ref: 'TS29503 Nudm SDM.yaml#/components/schemas/ExtGroupId'
      - name: supported-features
       in: query
       description: Features required to be supported by the target NF
          $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:
      12041:
       description: Expected response to a valid request
       description: Expected response to a valid request
       content:
          application/json:
            schema:
             $ref: 'TS29571 CommonData.yaml#/components/schemas/PatchResult'
      14031.
       description: modification is rejected
       content:
          application/problem+json:
           schema:
              $ref: 'TS29571_CommonData.yaml#/components/schemas/ProblemDetails'
      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'
       $ref: 'TS29571 CommonData.yaml#/components/responses/default'
/subscription-data/{ueId}/lcs-privacy-data:
   summary: Retrieves the LCS Privacy subscription data of a UE
    operationId: QueryLcsPrivacyData
      - 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: querv
          description: Supported Features
            $ref: 'TS29571 CommonData.yaml#/components/schemas/SupportedFeatures'
        - name: If-None-Match
          in: header
          description: Validator for conditional requests, as described in RFC 7232, 3.2
          schema:
           type: string
        - name: If-Modified-Since
          in: header
          description: Validator for conditional requests, as described in RFC 7232, 3.3
           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 7234, 5.2
              schema:
               type: string
            ETaq:
              description: Entity Tag, containing a strong validator, as described in RFC 7232, 2.3
              schema:
               type: string
            Last-Modified:
              description: Timestamp for last modification of the resource, as described in RFC
7232, 2.2
               type: string
        default:
          \verb| $ref: 'TS29571_CommonData.yaml\#/components/responses/default'| \\
  /subscription-data/{ueId}/lcs-mo-data:
      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
            $ref: 'TS29571_CommonData.yaml#/components/schemas/SupportedFeatures'
        - name: If-None-Match
          in: header
          description: Validator for conditional requests, as described in RFC 7232, 3.2
          schema:
           type: string
        - name: If-Modified-Since
          in: header
          description: Validator for conditional requests, as described in RFC 7232, 3.3
          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 7234, 5.2
              schema:
               type: string
            ETag:
              description: Entity Tag, containing a strong validator, as described in RFC 7232, 2.3
               type: string
            Last-Modified:
              description: Timestamp for last modification of the resource, as described in RFC
7232, 2.2
              schema:
               type: string
        default:
          $ref: 'TS29571_CommonData.yaml#/components/responses/default'
  /subscription-data/{ueId}/nidd-authorization-data:
    aet:
      summary: Retrieve NIDD Authorization Data GPSI or External Group identifier
      operationId: GetNiddAuData
      tags:
        - Query NIDD Authorization Data GPSI or External Group identifier (Document)
      security:
       - {}
        - oAuth2ClientCredentials:
          - nudr-dr
        - oAuth2ClientCredentials:
          - nudr-dr
          - nudr-dr:subscription-data
      parameters:
        - name: neTd
          in: path
          description: UE ID
          required: true
          schema:
            type: string
            pattern: '^(msisdn-[0-9]{5,15}|.+|extid-[^@]+@[^@]+|extgroupid-[^@]+@[^@]+)$'
        - 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
```

```
$ref: '#/components/schemas/Dnn'
        - name: mtc-provider-information
          in: querv
          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 7232, 3.2
          schema:
           type: string
        - name: If-Modified-Since
          in: header
          description: Validator for conditional requests, as described in RFC 7232, 3.3
          schema:
           type: string
      responses:
        12001.
          description: OK
          content:
            application/json:
              schema:
                $ref: '#/components/schemas/AuthorizationData'
          headers:
            Cache-Control:
              description: Cache-Control containing max-age, as described in RFC 7234, 5.2
              schema:
                type: string
            ETag:
              description: Entity Tag, containing a strong validator, as described in RFC 7232, 2.3
              schema:
               type: string
            Last-Modified:
              description: Timestamp for last modification of the resource, as described in RFC
7232, 2.2
              schema:
                type: string
        '403':
          $ref: 'TS29571 CommonData.yaml#/components/responses/403'
        14041.
          $ref: 'TS29571 CommonData.yaml#/components/responses/404'
        default:
          $ref: 'TS29571 CommonData.yaml#/components/responses/default'
  /subscription-data/{ueId}/coverage-restriction-data:
      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: querv
          description: Supported Features
            $ref: 'TS29571 CommonData.yaml#/components/schemas/SupportedFeatures'
        - name: If-None-Match
          in: header
```

```
description: Validator for conditional requests, as described in RFC 7232, 3.2
          schema:
           type: string
        - name: If-Modified-Since
          in: header
          description: Validator for conditional requests, as described in RFC 7232, 3.3
          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 7234, 5.2
              schema:
               type: string
            ETaq:
              description: Entity Tag, containing a strong validator, as described in RFC 7232, 2.3
               type: string
            Last-Modified:
              description: Timestamp for last modification of the resource, as described in RFC
7232, 2.2
              schema:
               type: string
        default:
          $ref: 'TS29571 CommonData.yaml#/components/responses/default'
  /subscription-data/{ueId}/context-data/location:
      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'
          description: Expected response to a valid request
          content:
            application/json:
              schema:
                $ref: '#/components/schemas/LocationInfo'
          $ref: 'TS29571_CommonData.yaml#/components/responses/default'
  /subscription-data/{ueId}/v2x-data:
      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 7232, 3.2
          schema:
            type: string
        - name: If-Modified-Since
          in: header
          description: Validator for conditional requests, as described in RFC 7232, 3.3
          schema:
           type: string
      responses:
        '200':
          description: OK
          content:
            application/json:
              schema:
                $ref: '#/components/schemas/V2xSubscriptionData'
            Cache-Control:
              description: Cache-Control containing max-age, as described in RFC 7234, 5.2
              schema:
                type: string
              description: Entity Tag, containing a strong validator, as described in RFC 7232, 2.3
              schema:
                type: string
            Last-Modified:
              description: Timestamp for last modification of the resource, as described in RFC
7232, 2.2
              schema:
               type: string
        default:
          \verb| fref: 'TS29571_CommonData.yaml#/components/responses/default'| \\
  /subscription-data/{ueId}/prose-data:
      summary: Retrieves the subscribed ProSe service Data of a UE
      operationId: QueryPorseData
        - 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 7232, 3.2
          schema:
            type: string
```

```
- name: If-Modified-Since
          in: header
          description: Validator for conditional requests, as described in RFC 7232, 3.3
          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 7234, 5.2
              schema:
                type: string
              description: Entity Tag, containing a strong validator, as described in RFC 7232, 2.3
              schema:
               type: string
            Last-Modified:
              description: Timestamp for last modification of the resource, as described in RFC
7232, 2.2
              schema:
               type: string
        default:
          $ref: 'TS29571 CommonData.yaml#/components/responses/default'
  /subscription-data/{ueId}/{servingPlmnId}/provisioned-data/lcs-bca-data:
      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 7232, 3.2
          schema:
           type: string
        - name: If-Modified-Since
          in· header
          description: Validator for conditional requests, as described in RFC 7232, 3.3
          schema:
           type: string
      responses:
        '200':
          description: Expected response to a valid request
          content:
            application/json:
              schema:
                $ref: '#/components/schemas/LcsBroadcastAssistanceTypesData'
            Cache-Control:
              description: Cache-Control containing max-age, as described in RFC 7234, 5.2
              schema:
                type: string
              description: Entity Tag, containing a strong validator, as described in RFC 7232, 2.3
              schema:
```

```
type: string
            Last-Modified:
              description: Timestamp for last modification of the resource, as described in RFC
7232, 2.2
              schema:
               type: string
        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
        - 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:
          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
               additional Properties:
                 $ref: 'TS29503 Nudm PP.yaml#/components/schemas/5GVnGroupConfiguration'
        default:
          $ref: 'TS29571 CommonData.yaml#/components/responses/default'
  /subscription-data/group-data/5g-vn-groups/pp-profile-data:
      summary: Retrieves the parameter provision profile data for 5G VN Group
      operationId: Query5GVNGroupPPData
        - 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
            $ref: 'TS29571 CommonData.yaml#/components/schemas/SupportedFeatures'
      responses:
        '200':
          description: Expected response to a valid request
          content:
           application/json:
              schema:
```

```
$ref: '#/components/schemas/Pp5gVnGroupProfileData'
       $ref: 'TS29571 CommonData.yaml#/components/responses/default'
/subscription-data/{ueId}/context-data/nidd-authorizations:
    summary: Create NIDD Authorization Info
   operationId: CreateNIDDAuthorizationInfo
      - 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
       description: Upon successful creation, the created resource shall be returned
       content:
         application/json:
           schema:
              $ref: '#/components/schemas/NiddAuthorizationInfo'
      default:
       $ref: 'TS29571 CommonData.yaml#/components/responses/default'
    summary: Delete NIDD Authorization Info
   operationId: RemoveNiddAuthorizationInfo
      - 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
       $ref: 'TS29571_CommonData.yaml#/components/responses/default'
   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: querv
        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'
        description: modification is rejected
        content:
          application/problem+json:
            schema:
              $ref: 'TS29571 CommonData.yaml#/components/schemas/ProblemDetails'
        $ref: 'TS29571 CommonData.yaml#/components/responses/default'
    summary: Retrieve NIDD Authorization Info
    operationId: GetNiddAuthorizationInfo
      - NIDD Authorization Info (Document)
    security:
     - {}
      - oAuth2ClientCredentials:
       - nudr-dr
      - oAuth2ClientCredentials:
        - nudr-dr
        - nudr-dr:subscription-data
    parameters:
      - name: ueId
       in: path
        required: true
         $ref: 'TS29571 CommonData.yaml#/components/schemas/VarUeId'
    responses:
      '200':
       description: OK
       content:
         application/json:
            schema:
              $ref: '#/components/schemas/NiddAuthorizationInfo'
      default:
        $ref: 'TS29571 CommonData.yaml#/components/responses/default'
/subscription-data/{ueId}/5mbs-data:
    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
            $ref: 'TS29571_CommonData.yaml#/components/schemas/SupportedFeatures'
        - name: If-None-Match
          in: header
          description: Validator for conditional requests, as described in RFC 7232, 3.2
          schema:
           type: string
        - name: If-Modified-Since
          in: header
          description: Validator for conditional requests, as described in RFC 7232, 3.3
          schema:
           type: string
      responses:
        '200':
          description: Expected response to a valid request
          content:
            application/json:
              schema:
                $ref: 'TS29503 Nudm SDM.yaml#/components/schemas/MbsSubscriptionData'
            Cache-Control:
              description: Cache-Control containing max-age, as described in RFC 7234, 5.2
              schema:
               type: string
            ETag:
              description: Entity Tag, containing a strong validator, as described in RFC 7232, 2.3
               type: string
            Last-Modified:
              description: Timestamp for last modification of the resource, as described in RFC
7232, 2.2
              schema:
               type: string
        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/DatasetNames'
        - name: serving-plmn
          in: query
          description: Serving PLMN Id
          schema:
            $ref: '#/components/schemas/VarPlmnId'
```

```
responses:
      '200':
       description: Expected response to a valid request
       content:
          application/json:
           schema:
              $ref: '#/components/schemas/UeSubscribedDataSets'
      default:
       $ref: 'TS29571_CommonData.yaml#/components/responses/default'
/subscription-data/{ueId}/service-specific-authorization-data/{serviceType}:
   summary: Retrieve ServiceSpecific Authorization Data
   operationId: GetSSAuData
   tags:
     - Query Service Specific Authorization Data (Document)
    security:
     - {}
      - oAuth2ClientCredentials:
        - nudr-dr
      - oAuth2ClientCredentials:
       - nudr-dr
       - nudr-dr:subscription-data
   parameters:
      - name: ueId
       in: path
       description: UE ID
       required: true
       schema:
         type: string
         pattern: '^(msisdn-[0-9]{5,15}|.+|extid-[^@]+@[^@]+|extgroupid-[^@]+@[^@]+)$'
      - 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 7232, 3.2
       schema:
          type: string
      - name: If-Modified-Since
       in: header
       description: Validator for conditional requests, as described in RFC 7232, 3.3
       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 7234, 5.2
              schema:
            ETag:
              description: Entity Tag, containing a strong validator, as described in RFC 7232, 2.3
              schema:
                type: string
            Last-Modified:
              description: Timestamp for last modification of the resource, as described in RFC
7232, 2.2
              schema:
               type: string
        '403':
          $ref: 'TS29571 CommonData.yaml#/components/responses/403'
        '404':
          $ref: 'TS29571_CommonData.yaml#/components/responses/404'
          $ref: 'TS29571 CommonData.yaml#/components/responses/default'
  /subscription-data/{ueId}/context-data/service-specific-authorizations/{serviceType}:
      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
           $ref: 'TS29503 Nudm SSAU.yaml#/components/schemas/ServiceType'
      requestBody:
        content:
          application/json:
              $ref: '#/components/schemas/ServiceSpecificAuthorizationInfo'
        required: true
      responses:
          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'
        default:
         $ref: 'TS29571 CommonData.yaml#/components/responses/default'
      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
 default:
   $ref: 'TS29571 CommonData.yaml#/components/responses/default'
summary: Modify Service Specific Authorization Info
{\tt operationId:}\ {\tt ModifyServiceSpecificAuthorizationInfo}
  - 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
    description: Expected response to a valid request
    content:
     application/json:
        schema:
          $ref: 'TS29571 CommonData.yaml#/components/schemas/PatchResult'
  14031.
   description: modification is rejected
    content:
      application/problem+json:
        schema:
          $ref: 'TS29571_CommonData.yaml#/components/schemas/ProblemDetails'
  default:
    $ref: 'TS29571_CommonData.yaml#/components/responses/default'
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'
          $ref: 'TS29571_CommonData.yaml#/components/responses/default'
  /subscription-data/{ueId}/context-data/roaming-information:
      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'
              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
          description: Unexpected error
      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:
        12001.
         description: Expected response to a valid request
          content:
           application/json:
             schema:
                $ref: 'TS29503 Nudm UECM.yaml#/components/schemas/RoamingInfoUpdate'
          $ref: 'TS29571 CommonData.yaml#/components/responses/default'
  /subscription-data/{ueId}/context-data/pei-info:
      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'
            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
        12041.
         description: Upon success, an empty response body shall be returned
         description: Unexpected error
      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
         application/json:
            schema:
              $ref: 'TS29503 Nudm UECM.yaml#/components/schemas/PeiUpdateInfo'
      default:
       $ref: 'TS29571 CommonData.yaml#/components/responses/default'
/subscription-data/group-data/{ueGroupId}/ee-subscriptions/{subsId}/amf-subscriptions:
   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
       description: Upon successful creation, the created resource shall be returned
       content:
          application/json:
            schema:
              type: array
              items:
                $ref: '#/components/schemas/AmfSubscriptionInfo'
              minItems: 1
      default:
       $ref: 'TS29571 CommonData.yaml#/components/responses/default'
    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
    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
      description: Expected response to a valid request
      content:
        application/json:
          schema:
            $ref: 'TS29571 CommonData.yaml#/components/schemas/PatchResult'
    14031.
      description: modification is rejected
      content:
        application/problem+json:
          schema:
            $ref: 'TS29571_CommonData.yaml#/components/schemas/ProblemDetails'
    default:
      $ref: 'TS29571_CommonData.yaml#/components/responses/default'
  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
      default:
       $ref: 'TS29571_CommonData.yaml#/components/responses/default'
/subscription-data/group-data/{ueGroupId}/ee-subscriptions/{subsId}/smf-subscriptions:
    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
           $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'
      default:
       $ref: 'TS29571_CommonData.yaml#/components/responses/default'
    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
      $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:
     description: Expected response to a valid request
    12001.
     description: Expected response to a valid request
      content:
       application/json:
            $ref: 'TS29571_CommonData.yaml#/components/schemas/PatchResult'
    '403':
      description: modification is rejected
      content:
        application/problem+json:
          schema:
           $ref: 'TS29571 CommonData.yaml#/components/schemas/ProblemDetails'
    default:
      $ref: 'TS29571_CommonData.yaml#/components/responses/default'
  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'
      default:
        $ref: 'TS29571 CommonData.yaml#/components/responses/default'
/subscription-data/group-data/{ueGroupId}/ee-subscriptions/{subsId}/hss-subscriptions:
   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:
           $ref: '#/components/schemas/HssSubscriptionInfo'
     required: true
    responses:
       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'
      default:
       $ref: 'TS29571 CommonData.yaml#/components/responses/default'
    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
      $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
        \verb| fref: '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
      description: Expected response to a valid request
      content:
        application/json:
            $ref: 'TS29571 CommonData.yaml#/components/schemas/PatchResult'
    14031.
      description: modification is rejected
        application/problem+json:
          schema:
            $ref: 'TS29571_CommonData.yaml#/components/schemas/ProblemDetails'
    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'
```

```
default:
          $ref: 'TS29571 CommonData.yaml#/components/responses/default'
  /subscription-data/{ueId}/uc-data:
      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: querv
          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 7232, 3.2
          schema:
           type: string
        - name: If-Modified-Since
          in: header
          description: Validator for conditional requests, as described in RFC 7232, 3.3
          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 7234, 5.2
               type: string
            ETag:
              description: Entity Tag, containing a strong validator, as described in RFC 7232, 2.3
              schema:
                type: string
            Last-Modified:
              description: Timestamp for last modification of the resource, as described in RFC
7232, 2.2
               type: string
        default:
          $ref: 'TS29571_CommonData.yaml#/components/responses/default'
  /subscription-data/group-data/mbs-group-membership:
      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: qpsis
       in: query
       description: List of GPSIs
       schema:
          type: array
         items:
            $ref: 'TS29571_CommonData.yaml#/components/schemas/Gpsi'
        style: form
       explode: false
    responses:
      12001:
        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
            additional Properties:
              $ref: 'TS29503_Nudm_PP.yaml#/components/schemas/MulticastMbsGroupMemb'
      14001.
        $ref: 'TS29571_CommonData.yaml#/components/responses/400'
      '401':
       $ref: 'TS29571_CommonData.yaml#/components/responses/401'
      14031:
        $ref: 'TS29571 CommonData.yaml#/components/responses/403'
       $ref: 'TS29571_CommonData.yaml#/components/responses/404'
      '406':
        $ref: 'TS29571 CommonData.yaml#/components/responses/406'
        $ref: 'TS29571 CommonData.yaml#/components/responses/429'
      '500':
       $ref: 'TS29571 CommonData.yaml#/components/responses/500'
      15021
       $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}:
    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'
     $ref: 'TS29571 CommonData.yaml#/components/responses/429'
    '500':
     $ref: 'TS29571 CommonData.yaml#/components/responses/500'
     $ref: 'TS29571 CommonData.yaml#/components/responses/502'
    15031.
      $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'
     $ref: 'TS29571 CommonData.yaml#/components/responses/401'
    14031:
     $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'
  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: querv
    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
   description: Expected response to a valid request
   content:
     application/json:
       schema:
         $ref: 'TS29571_CommonData.yaml#/components/schemas/PatchResult'
   $ref: 'TS29571 CommonData.yaml#/components/responses/400'
  '401':
    $ref: 'TS29571 CommonData.yaml#/components/responses/401'
   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'
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'
       $ref: 'TS29571 CommonData.yaml#/components/responses/401'
      14031.
       $ref: 'TS29571 CommonData.yaml#/components/responses/403'
       $ref: 'TS29571 CommonData.yaml#/components/responses/404'
      '406':
       $ref: 'TS29571_CommonData.yaml#/components/responses/406'
       $ref: 'TS29571 CommonData.yaml#/components/responses/429'
      15001:
       $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:
   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
            additional Properties:
              $ref: 'TS29503 Nudm PP.yaml#/components/schemas/MulticastMbsGroupMemb'
      14001.
       $ref: 'TS29571 CommonData.yaml#/components/responses/400'
       $ref: 'TS29571 CommonData.yaml#/components/responses/401'
      '403':
        $ref: 'TS29571_CommonData.yaml#/components/responses/403'
       $ref: 'TS29571 CommonData.yaml#/components/responses/404'
      '406':
       $ref: 'TS29571_CommonData.yaml#/components/responses/406'
       $ref: 'TS29571 CommonData.yaml#/components/responses/429'
      15001.
       $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:
   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
              $ref: 'TS29503 Nudm SDM.yaml#/components/schemas/ExtGroupId'
           minItems: 1
         style: form
          explode: false
        - name: supported-features
         in: querv
          description: Supported Features
            $ref: 'TS29571 CommonData.yaml#/components/schemas/SupportedFeatures'
      responses:
        '200':
         description: Expected response to a valid request
           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'
         $ref: 'TS29571 CommonData.yaml#/components/responses/429'
        15001.
          $ref: 'TS29571 CommonData.yaml#/components/responses/500'
        '502':
         $ref: 'TS29571 CommonData.yaml#/components/responses/502'
        15031:
          $ref: 'TS29571_CommonData.yaml#/components/responses/503'
          $ref: 'TS29571 CommonData.yaml#/components/responses/default'
components:
   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'
        n5qcAuthMethod:
```

```
$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:
     $ref: '#/components/schemas/SqnScheme'
    sqn:
     type: string
      pattern: '^[A-Fa-f0-9]{12}$'
    {\tt 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:
      $ref: '#/components/schemas/Sign'
SqnScheme:
  description: Scheme for generation of Sequence Numbers.
  anyOf:
    - type: string
      enum:
       - GENERAL
        - NON TIME BASED
        - TIME BASED
    - type: string
Sign:
  description: Sign of the DIF value.
  type: string
  enum:
   - POSITIVE
- NEGATIVE
VarPlmnId:
 description: PLMN Id (MCC, MNC) or SNPN Id (MCC, MNC, NID).
 type: string
pattern: '^[0-9]{5,6}(-[A-Fa-f0-9]{11})?$'
DatasetNames:
  description: The list of names of data sets.
  type: array
  items:
   $ref: '#/components/schemas/DataSetName'
 minItems: 1
 uniqueItems: true
DataSetName:
 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
    - V2X
    - PROSE
    - ODB
    - EE_PROF
```

```
- PP PROF
    - NIDD AUTH
    - USER_CONSENT
    - MBS
  - type: string
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'
    smsMnqData:
     $ref: '#/components/schemas/SmsManagementSubscriptionData'
    lcsPrivacyData:
     $ref: '#/components/schemas/LcsPrivacyData'
    lcsMoData:
     $ref: '#/components/schemas/LcsMoData'
    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'
    mbsSubscriptionData:
     $ref: 'TS29503 Nudm SDM.yaml#/components/schemas/MbsSubscriptionData'
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'
 $ref: 'TS29571 CommonData.yaml#/components/schemas/Dnn'
SmSubsData:
 $ref: 'TS29503_Nudm_SDM.yaml#/components/schemas/SmSubsData'
{\tt 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'
AuthorizationData:
 description: NIDD Authorization Information
 required:
   - authorizationData
 properties:
   authorizationData:
     type: array
      items:
```

```
$ref: 'TS29503 Nudm NIDDAU.yaml#/components/schemas/UserIdentifier'
            minItems: 1
            uniqueItems: true
        \verb"allowedDnnList":
            type: array
            items:
                 anvOf:
                     - $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:
    \verb| sref: 'TS29503_Nudm_SDM.yaml#/components/schemas/LcsBroadcastAssistanceTypesData'| | Statement | 
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'
    SmfReqList:
      description: The list of all the SMF registrations of a UE.
      type: array
       $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
        {\tt supportedFeatures:}
          $ref: 'TS29571 CommonData.yaml#/components/schemas/SupportedFeatures'
    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
            $ref: '#/components/schemas/SubscriptionDataSubscriptions'
    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
      additional Properties:
       $ref: 'TS29571 CommonData.yaml#/components/schemas/Gpsi'
      minProperties: 1
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'
     $ref: 'TS29509_Nausf_SoRProtection.yaml#/components/schemas/SorMac'
   meSupportOfSorCmci:
     type: boolean
  required:
    - provisioningTime
    - ueUpdateStatus
 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
CaqAckData:
  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
          additional Properties:
             type: array
             items:
              $ref: '#/components/schemas/MtcProvider'
             minItems: 1
          minProperties: 1
        iwkEpcRestricted:
          type: boolean
           default: false
          type: string
          pattern: '^[0-9]{5,15}$'
        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'
      minTtems: 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'
        \verb"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/IpSmGwReqistration'
    MessageWaitingData:
      description: Message Waiting Data list.
      type: object
      properties:
        mwdList:
          type: array
            $ref: '#/components/schemas/SmscData'
          minTtems: 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
          additional Properties:
             type: array
             items:
               $ref: '#/components/schemas/MtcProvider'
             minItems: 1
          minProperties: 1
        supportedFeatures:
             $ref: 'TS29571_CommonData.yaml#/components/schemas/SupportedFeatures'
         iwkEpcRestricted:
          type: boolean
          default: false
        \verb"extGroupId":
          type: string
          pattern: '^extgroupid-[^@]+@[^@]+$'
          $ref: 'TS29571 CommonData.yaml#/components/schemas/NfGroupId'
    {\tt Pp5gVnGroupProfileData:}
      type: object
      properties:
        allowedMtcProviders:
```

- niddAuthorizationList

```
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
          additional Properties:
            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
          additional Properties:
            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:
```

```
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.
  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'
    smsMnqData:
     $ref: '#/components/schemas/SmsManagementSubscriptionData'
    lcsPrivacyData:
      $ref: '#/components/schemas/LcsPrivacyData'
    lcsMoData:
     $ref: '#/components/schemas/LcsMoData'
    lcsBcaData:
     $ref: '#/components/schemas/LcsBroadcastAssistanceTypesData'
    v2xData:
     $ref: '#/components/schemas/V2xSubscriptionData'
    proseData:
      $ref: '#/components/schemas/ProseSubscriptionData'
     $ref: 'TS29571 CommonData.yaml#/components/schemas/OdbData'
    eeProfileData:
     $ref: '#/components/schemas/EeProfileData'
    ppProfileData:
     $ref: '#/components/schemas/PpProfileData'
    niddAuthData:
     $ref: '#/components/schemas/AuthorizationData'
      $ref: '#/components/schemas/UcSubscriptionData'
    mbsSubscriptionData:
     $ref: 'TS29503_Nudm_SDM.yaml#/components/schemas/MbsSubscriptionData'
ServiceSpecificAuthorizationInfo:
  description: Information related to active Service Specific Authorizations
  type: object
  required:
     serviceSpecificAuthorizationList
 properties:
    {\tt serviceSpecificAuthorizationList:}
      type: array
        $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'
    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
           \verb|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
```

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	8000	-	F	Formatting of query parameter	15.1.0
2018-09	CT#81	CP-182212	0009	2	В	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	VarUeld 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	В	Nudr Id Translation	15.1.0
2018-09	CT#81	CP-182043	0001	2	В	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	ļ	F	CR 0038r2 was not correctly implemented	15.3.0
2019-03	CT#83	CP-190179	0048	<u> </u>	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	ļ	F	CR 0049 was not correctly implemented	15.4.0
2019-06	CT#84	CP-191032	0066	<u> </u>	F	CR 0050 was not correctly implemented	15.4.0
2019-06	CT#84	CP-191032	0067	<u> </u>	F	CR 0054 was not correctly implemented	15.4.0
2019-06	CT#84	CP-191032	0068	1	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	ļ <u>. </u>	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

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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 0080	2	F F	Group Identifier Translation	15.4.0
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2019-06	CT#84	CP-191032	0009	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	В	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	В	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	В	Application errors for DELETE method	16.0.0
2019-09	CT#85	CP-192133	0095	1	В	Closed Access Group	16.0.0
2019-09	CT#85	CP-192027	0096	2	В	VN-Group parameter provisioning	16.0.0
2019-09	CT#85	CP-192120	0104	-	F	3GPP TS 29.505 externalDoc correction	16.0.0
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2019-12	CT#86 CT#86	CP-193029 CP-193029	0108 0263	1	A	GroupIdentifier resource URI	16.1.0
2019-12	CT#86	CP-193029	0112	1	В	Id translation for MSISDN-less MO SMS service	16.1.0
2019-12	CT#86	CP-193278	0258	4	В	NIDD Authorization Data	16.1.0
2019-12	CT#86	CP-193131	0257	1	В	Authentication Subscription Data	16.1.0
2019-12	CT#86	CP-193055	0109	2	В	LCS Private	16.1.0
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2020-08	CT#89-e	CP-201021 CP-202110	0279	-	F	Security for Authentication Subscription Data	16.4.0
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2020-09 2020-09	CT#89-e CT#89-e	CP-202110	0299		F	Incorrect index type	16.4.0
2020-09 2020-09	CT#89-e CT#89-e	CP-202111 CP-202096	0301		F	API version and External doc update	16.4.0
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Description CT#93-e CP-212056 0373 F EE profile of the EPC Domain for a group 17.4.0	2021-09 2021-09 2021-09 2021-09 2021-09	CT#93-e CT#93-e CT#93-e CT#93-e	CP-212026 CP-212026 CP-212026 CP-212026 CP-212026 CP-212026	0371 0372 0374 0377 0379	1 1 1	F B F	Allow changing NIDD Authorization data NIDD Authorization data storage Batch Fetching of Service Profiles HssSubscriptionInfo creation providing 201 result code Corrections on ProvisionedParamenterDataEntry	17.4.0 17.4.0 17.4.0 17.4.0 17.4.0
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	2021-09 2021-09 2021-09 2021-09 2021-09 2021-09 2021-09 2021-09 2021-09 2021-12	CT#93-e CT#94-e	CP-212026 CP-212026 CP-212026 CP-212026 CP-212026 CP-212026 CP-212026 CP-212026 CP-212049 CP-212056 CP-212059 CP-212063 CP-212064 CP-213085 CP-213085 CP-213085 CP-213086 CP-213086 CP-213086 CP-213087 CP-213088 CP-2130893 CP-213093 CP-213093 CP-213097 CP-213106 CP-213107 CP-213121 CP-220023 CP-220023	0371 0372 0374 0377 0379 0380 0381 0373 0384 0366 0387 0390 0398 0395 0399 0405 0408 0403 0396 0391 0388 0406 0407 0409 0414 0415	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	F	Allow changing NIDD Authorization data NIDD Authorization data storage Batch Fetching of Service Profiles HssSubscriptionInfo creation providing 201 result code Corrections on ProvisionedParamenterDataEntry Get the PP data of mutiple Afs Get the specific EE data EE profile of the EPC Domain for a group 29.505 Rel-17 External doc update SDM subscription Storage for HSS SharedDataId Resource Error responses to the modification of SubscriptionDataSubscription Shared Session Management Subscription Data Update of SMF Registration Correction of the response to modification of SubscriptionDataSubscription UE Subscription Data Sets Retrieve Alignment of GET response data type Missing operations on Operator Specific Data resource Update Roaming Status in EPC Naming Convention ECS Address Configuration Support for Service Specific Authorization 5MBS Subscription Data SOR-CMCI suppport Routing Indicator 29.505 Rel-17 External doc update Operator-Specific Data Style corrections and missing clauses	17.4.0 17.4.0 17.4.0 17.4.0 17.4.0 17.4.0 17.4.0 17.4.0 17.4.0 17.4.0 17.4.0 17.5.0
2022-03 C1#95-e CP-220026 0419 A Missing path parameter 17.6.0	2021-09 2021-09 2021-09 2021-09 2021-09 2021-09 2021-09 2021-09 2021-09 2021-12	CT#93-e CT#94-e CT#95-e CT#95-e	CP-212026 CP-212026 CP-212026 CP-212026 CP-212026 CP-212026 CP-212026 CP-212026 CP-212049 CP-212059 CP-212059 CP-212064 CP-213085 CP-213085 CP-213085 CP-213085 CP-213086 CP-213086 CP-213086 CP-213087 CP-213088 CP-2130893 CP-213093 CP-213093 CP-213097 CP-213106 CP-213107 CP-213121 CP-220023 CP-220023 CP-220023	0371 0372 0374 0377 0379 0380 0381 0373 0384 0366 0387 0390 0398 0395 0399 0405 0408 0403 0396 0391 0388 0406 0407 0409 0414 0415 0417	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	F	Allow changing NIDD Authorization data NIDD Authorization data storage Batch Fetching of Service Profiles HssSubscriptionInfo creation providing 201 result code Corrections on ProvisionedParamenterDataEntry Get the PP data of mutiple Afs Get the specific EE data EE profile of the EPC Domain for a group 29.505 Rel-17 External doc update SDM subscription Storage for HSS SharedDataId Resource Error responses to the modification of SubscriptionDataSubscription Shared Session Management Subscription Data Update of SMF Registration Correction of the response to modification of SubscriptionDataSubscription UE Subscription Data Sets Retrieve Alignment of GET response data type Missing operations on Operator Specific Data resource Update Roaming Status in EPC Naming Convention ECS Address Configuration Support for Service Specific Authorization SMBS Subscription Data SOR-CMCI suppport Routing Indicator 29.505 Rel-17 External doc update Operator-Specific Data Style corrections and missing clauses Update on missing roaming information	17.4.0 17.4.0 17.4.0 17.4.0 17.4.0 17.4.0 17.4.0 17.4.0 17.4.0 17.4.0 17.4.0 17.5.0
	2021-09 2021-09 2021-09 2021-09 2021-09 2021-09 2021-09 2021-09 2021-09 2021-12	CT#93-e CT#94-e CT#95-e CT#95-e CT#95-e CT#95-e	CP-212026 CP-212026 CP-212026 CP-212026 CP-212026 CP-212026 CP-212026 CP-212026 CP-212029 CP-212049 CP-212059 CP-212063 CP-212064 CP-213085 CP-213085 CP-213085 CP-213086 CP-213086 CP-213086 CP-213087 CP-213088 CP-213089 CP-213093	0371 0372 0374 0377 0379 0380 0381 0373 0384 0366 0387 0390 0398 0395 0399 0405 0408 0403 0396 0391 0388 0406 0407 0409 0414 0415 0417	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	F F B F A A F B B F B B F F B B F B B F B B B B	Allow changing NIDD Authorization data NIDD Authorization data storage Batch Fetching of Service Profiles HssSubscriptionInfo creation providing 201 result code Corrections on ProvisionedParamenterDataEntry Get the PP data of mutiple Afs Get the specific EE data EE profile of the EPC Domain for a group 29.505 Rel-17 External doc update SDM subscription Storage for HSS SharedDatald Resource Error responses to the modification of SubscriptionDataSubscription Shared Session Management Subscription Data Update of SMF Registration Correction of the response to modification of SubscriptionDataSubscription UE Subscription Data Sets Retrieve Alignment of GET response data type Missing operations on Operator Specific Data resource Update Roaming Status in EPC Naming Convention ECS Address Configuration Support for Service Specific Authorization SMBS Subscription Data SOR-CMCI suppport Routing Indicator 29.505 Rel-17 External doc update Operator-Specific Data Style corrections and missing clauses Update on missing roaming information Group Subscription Storage	17.4.0 17.4.0 17.4.0 17.4.0 17.4.0 17.4.0 17.4.0 17.4.0 17.4.0 17.4.0 17.4.0 17.5.0

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2022-03	CT#95-e	CP-220026	0423	1	Α	Chapter and OperationId Updates	17.6.0
2022-03	CT#95-e	CP-220026	0424	1	Α	One SDM Subscription	17.6.0
2022-03	CT#95-e	CP-220031	0421		F	serviceType naming convention	17.6.0
2022-03	CT#95-e	CP-220035	0425		В	5MBS Subscription Data Storage	17.6.0
2022-03	CT#95-e	CP-220047	0400	2	F	UDM retrieving SNPN info	17.6.0
2022-03	CT#95-e	CP-220047	0426	1	В	EAP-TTLS support in SNPN (TS 29.505)	17.6.0
2022-03	CT#95-e	CP-220049	0416	1	В	User Consent subscription	17.6.0
2022-03	CT#95-e	CP-220066	0428		F	29.505 Rel-17 External doc update	17.6.0
2022-06	CT#96-e	CP-221025	0431		F	resetId assignment to OperatorSpecificDataContainer in UDR consumer (PCF)	17.7.0
2022-06	CT#96-e	CP-221027	0430		F	Support for arrays in Operator Specific Data	17.7.0
2022-06	CT#96-e	CP-221029	0435	1	F	RoamingInfo Correction	17.7.0
2022-06	CT#96-e	CP-221029	0434	1	F	Subscribable Resources and Notifiations to Store and Collection	17.7.0
2022-06	C1#90-E	CF-221029	0434		Г	resources	
2022-06	CT#96-e	CP-221029	0433	1	F	EE-Subscription retrieval optimization	17.7.0
2022-06	CT#96-e	CP-221051	0436		F	29.505 Rel-17 External doc update	17.7.0
2022-09	CT#97-e	CP-222026	0437		F	CR implementation error	17.8.0
2022-09	CT#97-e	CP-222026	0438		F	Allow empty array in 200 OK	17.8.0
2022-09	CT#97-e	CP-222026	0441		F	ValidityTime in AuthorizationData	17.8.0
2022-09	CT#97-e	CP-222057	0445		F	PEI Information	17.8.0
2022-09	CT#97-e	CP-222057	0446	1	F	Roaming Information Correction	17.8.0
2022-09	CT#97-e	CP-222058	0447		F	29.505 Rel-17 External doc update	17.8.0
2022-09	CT#97-e	CP-222059	0443		Α	Corrections on the Cardinality of map(5GVnGroupConfiguration)	17.8.0
2022-12	CT#98-e	CP-223041	0452		F	HSS Subscription Info Storage in SubscriptionDataSubscriptions	17.9.0
2022-12	CT#98-e	CP-223066	0455		F	29.505 Rel-17 External doc update	17.9.0
2023-06	CT#100	CP-231076	0471	2	F	Update on Multicast MBS group membership management	17.10.0
						parameters	
2023-06	CT#100	CP-231085	0476		F	29.505 Rel-17 External doc update	17.10.0

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History

Document history						
V17.6.0	May 2022	Publication				
V17.7.0	July 2022	Publication				
V17.8.0	October 2022	Publication				
V17.9.0	January 2023	Publication				
V17.10.0	July 2023	Publication				